







Power Brushes





Product Summary

Crimped Wire Wheels

New and improved range of high quality, industrial grade crimped wire wheels brushes in narrow, medium and wide face. New brush design features improved balance, improved gangability, and patented new arbor hole system. Also features an increased selection of small diameter Tube-Center™ wheels, and a brand new selection of crimped wire wheels for bench applications. Filaments include carbon steel, stainless steel, brass filaments. Encapsulated wheels, brushes and accessories.



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Knot Wheels (Unthreaded)

ADVANCE unthreaded knot wheels are available in a variety of twist-types and knot configurations. Ranging from 3" to 16" in diameter, selection includes standard twist single and double row brushes for aggressive brushing action, as well as specialty brushes like short-trim wheel for high impact, heavy duty use, and long trim for a less aggressive brushing action and improved surface finish. Includes pipe cleaning and joint expansion brushes.



Threaded Wheels

All wheel brushes equipped with thread are conveniently grouped together in this section. For use on angle grinders, and any machine with a threaded spindle to accommodate imperial or metric thread sizes. Choose from stringer bead, full-cable, standard twist and more. Featuring COMBITWIST® wheels, a new performance level in knot wheel brushes!



Cup Brushes

ADVANCE cup brushes are available in diameters ranging from 2-3/4" up to 6". Diverse catalog range includes options of internal or external threads, bridles, crimped and knot wire types, and encapsulated cup brushes. Filament range includes heat treated, high carbon steel wire, stainless steel, brass, bronze, nylon abrasive filaments. Built for machine spindles and angle grinders, Advance cups offer top performance in application ranging from light cleaning to heavy-duty removal and deburring.



Minigrinder Brushes

ADVANCE mini wheels, bevel brushes and cups are designed for use on high speed tools. Choose from 2-3/4" and 3-1/2" cups, 4" wheel and bevel brushes. Knot and crimped heat treated, high carbon steel wire, and stainless steel. Full range of knot wheels includes crimped, standard twist knot, full cable, stringer bead and encapsulated. Range also features new, patent-pending COMBITWIST® products, rounding out the most complete standard range of minigrinder accessories available in the industry.



End Brushes

Choose between 2 basic cup shapes - Straight Cups for easy access into narrow holes and confined areas, and Flared Cups for better side action and less wire fatigue, resulting in longer service life. Knot and crimped wire types with heat treated, high carbon steel wire, and stainless steel. Also available with coated cups, banded, encapsulated, and in M-Brad™ abrasive filament, and metric shanks.





Product Summary

Shank Mounted Brushes

ADVANCE offers a wide selection of brushes mounted on 1/4" shanks for use with colletequipped high speed air and electric tools. Range includes crimped and knot wire wheel brushes, crimped cup brushes, flared cups, circular end brushes and specialty products. For spot facing applications, working in confined or recessed areas and I.D.'s. Filament availability includes high carbon steel wire and stainless steel, with many selections additionally offered in encapsulated and M-Brad nylon abrasive filament.



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Miniature Brushes

New Products! ADVANCE is pleased to offer a complete line of miniature stem-mounted brushes for precision polishing, buffing, light cleaning and light deburring. Diverse selection of Mounted Wheel, Cup and End Brushes in Carbon Steel, Stainless Steel, Brass and Bristle filaments with 1/8" Diameter shanks.



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Power Tube Internal Cleaning Brushes

Small diameter brushes for use in drill presses and power tools for internal cleaning. Range features Sydkleen rectangular internal brushes and holders for odd shaped holes and cavities, Spyrakleen Round Trim brushes for light duty cleaning, and a wide selection of standard and specialty tube brushes.



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Encapsulated Brushes

ECAP® encapsulation increases productivity by 25% or more. Choose ECAP® products for longer brush life, uniform performance, and precision-controlled contact areas. ADVANCE ECAP® product range includes wheel, cup, end, tube, stem mounted brushes and more. Encapsulated products are dispersed throughout the catalog within sections matching their form, and consolidated in this section for a complete product selection reference.



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Abrasive Filament and Non-Wire Products

M-BRAD™ is a nylon monofilament that evenly encapsulates abrasive grit particles. Used for surface preparation and conditioning, M-Brad is the ultimate flexible abrasive tool. Nylon abrasive brushes are available in a wide selection of brush forms including wheels, cup and disc brushes, end brushes, and tube brushes. Section also includes other non-wire filament power brushes including synthetic Prostran power scrub brushes, and Tampico wheel brushes for light and wet/dry cleaning and finishing applications.



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Conveyor Cleaning Brushes and Strip Brushes

72" strip brushes are available in carbon and stainless steel wire, Tampico, and a variety of synthetic materials including Prostran and M-Brad. Used for a variety of applications including dusting, spreading, guarding, chip removal, static elimination, etc. Also available is a wide selection of conveyor cleaning brushes that prevent build-up by removing the carryover of materials that stick to rubber and fabric conveyor belts.



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General Information

NEW PRODUCT



Crimped Wire Wheel – Features and Benefits

- Heavy fill density for more wire points, which means more brushing action and longer life
- Oil Tempered, industrial quality wire
- Wheel adapters with built-in keyways for positive drive, eliminate slippage possibility
- Designed for seamless gang mounting without risk of face plate interference
- Ring and sleeve type construction
- Part number stamped on all narrow, medium and wide face brushes for easy identification/reorder
- Stainless Steel (302) Wire brushes identified by black oxide color
- Uniform wire disbursement for optimal balance and finish
- Standard and long trim options on popular diameters as catalog items

Narrow Face



Medium Face



Wide Face



Narrow face single section brushes for light to medium duty brushing action are designed for individual use in confined areas, or in assemblies mounted on a shaft. Best suited for brushing uneven surfaces and areas inaccessible to wider brushes. Ideal for removal of light scale, dirt, rust, corrosion and light burrs on non-ductile materials.

Medium Face Brushes are designed for medium to heavy duty use either individually or gang mounted. As with all ADVANCE crimped wire wheels, the metal components and adapters are designed for a flush fit when gang-mounted. This design ensures a consistent, seamless surface finish.

Wide face, multiple section brushes for all-purpose portable or stationary brushing are designed for maximum productivity. Engineered for professional use, the wide face brushes feature precision balance, high quality tempered wire, and dense wire fill for fast brushing action, superior surface finish and long service life.

Bench



EZmount®



Tube Center



New range of bench brushes includes standard face (single section, solid center), and wide face (multiple section, adapter style). Available in high quality grade for production environments, and economy grade for occasional users. Brushes ship with multiple arbor hole configurations to accommodate spindle sizes of most bench grinders.

Easy Installation: the new EZmount® crimped wire wheel eliminates mounting problems commonly found with other bench brushes. It`s designed with a non-contoured, flat side profile that matches all mounting flanges on pedestal and bench grinders for a correct fit without a need for adapters.

These small diameter wire wheel brushes are designed for use in restricted or hard-to-reach areas. They are excellent tools for deburring, blending, and cleaning of surfaces.

Crimped Wire Wheel Adapters

U.S. Patent No. 6,490,750 B2

For use with Solid Center Brushes

Style A





Reusable arbor adapters reduce 1-1/4" keyed arbor hole to 1" through 1/2" with keyways. Manufactured with a tough, synthetic material, the adapters interlock. This results in a wider load-bearing surface, and reduces scoring of the machine spindle. Use with solid center style brushes. Sold two to a package.

For use with Adapter Style Brushes

Style B





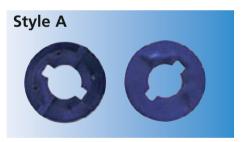
Reusable arbor adapters reduce 2" keyed arbor hole to 1-1/4" through 1/2" with keyways. These metal adapters feature tabs that lock into the brush keyways. Tabs may be removed with pliers to become compatible with 2" non-keyed arbor holes. Sold two to a package.



Narrow Face



Used for light to medium duty brushing action, these wheels are 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. Ideal for removal of light scale, dirt, rust, corrosion and light burs on non-ductile materials.



Keyed Arbor Adapters - Style A have built-in keyways to reduce all narrow face brushes manufactured to 1-1/4" arbor hole with dual keyways to common arbor hole sizes.

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number
1/2	1/8 x 3/32 (2)	1	84605
5/8	3/16 x 1/8 (2)	1	84606
3/4	3/16 x 1/8 (2)	1	84607
7/8	3/16 x 1/8 (2)	1	84608
1	1/4 x 5/32 (2)	1	84609

Plain Round Plastic Adapters

Inside Dia.	Qty	EDP Number
1/4	10	84600
3/8	10	84602
1/2	10	84603
	Dia. 1/4 3/8	Dia. Qty 1/4 10 3/8 10

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width	MSFS Max.	Qty	El	DP Numb	er
(Inches)	поје	Size	Length	widti	Arbor	RPM	Qty	Steel	Stainless	Brass
3	1/2-3/8	.006	3/4	9/16	7/16	10,000	2	80000	80330	-
		.008						80001	80331	-
		.010						80002	80332	-
		.014						80003	80333	-
4	1/2-3/8	.006	3/4	9/16	13/32	12,500	2	80008	80338	-
		.008						80009	80339	-
		.010						80010	80340	-
		.012						80011	80341	-
		.014						80012	80342	-
		.020						80013	80343	-
4	5/8-1/2	.006	3/4	1/2	13/32	12,500	2	80014	80344	-
		.008						80015	80345	-
		.010						80016	80346	-
		.012						80017	80347	-
		.014						80018	80348	-
		.020						80019	80349	-
5	5/8-1/2	.006	1-1/4	7/8	7/16	10,000	2	80026	80356	-
		.008						80027	80357	-
		.010						80028	80358	-
		.012						80029	80359	-
		.014						80030	80360	-
		.020						80031	80361	-
6	5/8-1/2	.006	1-1/8	5/8	7/16	8,000	10**	80038	80368	-
		.008						80039	80369	80666
		.010						80040	80370	-
		.012						80041	80371	-
		.014						80042	80372	80667
		.020						80043	80373	-
6	1-1/4*	.006	1-1/8	3/4	7/16	8,000	10**	80062	80392	-
		.008						80063	80393	-
		.010						80064	80394	-
		.012						80065	80395	-
		.014						80066	80396	-
		.020						80067	80397	-

- * 1-1/4" Arbor Hole with 1/4 x 1/8 Keyways (2)
- ** Stainless Steel Box Quantity: 2

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Narrow Face







Operating Speeds

The M.S.F.S. (Maximum Safe Free Speed) listed in the tables reflect the MAXIMUM, not the OPTIMUM operating speed for the brush. Running brushes at this speed will result in premature brush wear and poor surface finish.

Please consult the "Recommended Surface Speeds" table on page 10 of this catalog to select the proper operating speed based on your application.

Brush	Arbor	Wire	Trim	Face	Width	MSFS		EI	OP Numb	or
Dia. (Inches)	Hole	Size	Length	Width	on Arbor	Max. RPM	Qty	Steel	Stainless	Brass
7	5/8	.006	1-5/16	5/8	9/16	7,500	2	80122	80452	_
,	5,0	.008	,	3,0	57.10	.,500	_	80123	80453	_
		.010						80124	80454	_
		.012						80125	80455	_
		.014						80126	80456	_
		.020						80127	80457	_
8	5/8	.006	1-1/2	5/8	5/8	6,000	2	80158	80488	_
		.008				-,		80159	80489	_
		.010						80160	80490	_
		.012						80161	80491	_
		.014						80162	80492	_
		.020						80163	80493	_
8	1-1/4*	.006	1-1/2	3/4	15/32	6,000	2	80164	80494	_
		.008				,		80165	80495	80682
		.010						80166	80496	-
		.012						80167	80497	_
		.014						80168	80498	80683
		.020						80169	80499	_
8	5/8	.006	2-1/8	3/4	15/32	6,000	2	80188	80518	_
Long		.008				,		80189	80519	_
Trim		.010						80190	80520	_
Version		.012						80191	80521	_
		.014						80192	80522	_
		.020						80193	80523	_
8	1-1/4*	.006	2-1/8	3/4	15/32	6,000	2	80194	80524	-
Long		.008						80195	80525	-
Trim		.010						80196	80526	-
Version		.012						80197	80527	-
		.014						80198	80528	-
		.020						80199	80529	-
10	3/4	.006	1-7/8	1	13/16	4,200	2	80218	80548	-
		.008						80219	80549	-
		.010						80220	80550	-
		.012						80221	80551	-
		.014						80222	80552	-
		.020						80223	80553	-
10	1-1/4*	.006	1-7/8	1	1/2	4,200	2	80224	80554	-
		.008						80225	80555	80692
		.010						80226	80556	-
		.012						80227	80557	-
		.014						80228	80558	80693
		.020						80229	80559	-
12	1-1/4*	.008	2-7/8	1-1/4	11/16	3,400	2	80282	80612	-
		.012						80283	80613	-
		.014						80284	80614	-
		.020						80285	80615	-
15	1-1/4*	.008	3-1/8	3/4	3/4	2,600	2	80318	80648	-
		.014						80319	80649	-
		.020						80320	80650	-

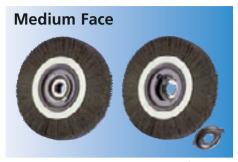
^{* 1-1/4&}quot; Arbor Hole with 1/4 x 1/8 Keyways (2)

ANSI Standard B165.1

Please refer to the chart on page 10 of this catalog, for correlating minimum arbor hole and maximum face width standards.



Medium Face



Medium Face Brushes are designed for medium to heavy duty use either individually or gang mounted. As with all ADVANCE crimped wire wheels, the metal components and adapters are designed for a flush fit when gang-mounted. This design ensures a consistent, seamless surface finish.



2" Keyed Arbor Adapters** - Style B have built-in keyways to reduce all medium face and wide face brushes manufactured to 2" arbor hole with dual keyways to common arbor hole sizes.

(Note: Tabs must be removed for use on 6" and 7" diameter brushes, or order Style C (below), without keyways).

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number
1/2	1/8 x 3/32 (2)	1	84620
5/8	3/16 x 1/8 (2)	1	84621
3/4	3/16 x 1/8 (2)	1	84622
7/8	3/16 x 1/8 (2)	1	84623
1	1/4 x 5/32 (2)	1	84624
1-1/4	1/4 x 5/32 (2)	1	84625

Style C – 2" Round Arbor Adapters* - reduce all adapter style brushes manufactured to 2" round arbor hole to common arbor hole sizes.

Wheel Arbor Hole	Shaft Size	Qty	EDP Number
2	1/2	1	84628
2	5/8	1	84629
2	3/4	1	84630
2	7/8	1	84631
2	1	1	84632
2	1-1/4	1	84633
2	1-1/2	1	84634

Brush	Arbor	Wire	Trim	Face	Width	MSFS	\Longrightarrow	EI	DP Numb	er
Dia. (Inches)	Hole	Size	Length	Width	on Arbor	Max. RPM	Qty	Steel	Stainless	Brass
4-1/4	2*	.006	7/8	7/8	23/32	8,000	1	81100	81145	-
		.008						81101	81146	81190
		.012						81103	81148	-
		.014						81104	81149	81191
6	2*	.006	1-1/8	1-1/16	13/16	6,000	1	81112	81157	-
		.008						81113	81158	81194
		.010						81114	81159	-
		.012						81115	81160	-
		.014						81116	81161	81195
7	2*	.006	1-5/16	31/32	27/32	6,000	1	81118	81163	-
		.010						81120	81165	-
		.012						81121	81166	-
		.014						81122	81167	-
8	2**	.006	1-1/2	1-1/16	1	4,500	1	81124	81169	-
		.008						81125	81170	81198
		.010						81126	81171	-
		.012						81127	81172	-
		.014						81128	81173	81199
		.020						81129	81174	-
10	2**	.006	1-7/8	1-1/8	1	3,600	1	81130	81175	-
		.008						81131	81176	-
		.010						81132	81177	-
		.012						81133	81178	-
		.014						81134	81179	-
		.020						81135	81180	-
12	2**	.008	2-7/8	1-3/4	1-5/16	3,000	1	81136	81181	-
		.010						81137	81182	-
		.012						81138	81183	-
		.014						81139	81184	-
		.020						81140	81185	-
15	2**	.012	3-1/8	1-3/8	1-5/16	2,400	1	81142	81187	-
		.014						81143	81188	-

- * 2" round Arbor. Use with Adapter Style "C."
- ** 2" Arbor Hole with 1/2 x 1/4 Keyways (2).

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Wide Face





Wide face, multiple section brushes for allpurpose portable or stationary brushing are designed for maximum productivity. Engineered for professional use, the wide face brushes feature precision balance, high quality tempered wire, and dense wire fill for fast brushing action, superior surface finish and long service life.

Available in a wide product range to fit every application, including: refining metal surfaces, preparing rubber in vulcanizing, blending surfaces, and removing light burrs, paint and corrosion.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width on	MSFS Max.		EI	OP Numb	er
(Inches)	noie	Size	Length	wiatii	Arbor	RPM	Qty /	Steel	Stainless	Brass
4-1/4	2	.006	7/8	1-1/8	1	8,000	1	81220	81264	-
		.010						81222	81266	-
		.012						81223	81267	-
		.014						81224	81268	-
6	2	.006	1-1/8	1-1/8	1-3/32	6,000	1	81232	81276	-
		.008						81233	81277	-
		.010						81234	81278	-
		.012						81235	81279	-
		.014						81236	81280	81313
7	2	.008	1-5/16	1-7/16	1-3/8	6,000	1	81239	81283	-
		.012						81241	81285	-
		.014						81242	81286	-
8	2**	.006	1-1/2	1-5/8	1-7/16	4,500	1	81244	81288	-
		.008						81245	81289	-
		.010						81246	81290	-
		.012						81247	81291	-
		.014						81248	81292	81317
		.020						81249	81293	-
10	2**	.010	1-7/8	2-1/8	1-3/4	3,600	1	81252	81296	-
		.012						81253	81297	-
		.014						81254	81298	-
		.020						81255	81299	-
12	2**	.012	2-7/8	2-3/8	1-3/4	3,000	1	81257	81301	-
		.014						81258	81302	-
		.020						81259	81303	-
15	2**	.008	3-1/8	2-1/2	1-3/4	2,400	1	81260	81304	-
		.012						81261	81305	-
		.014						81262	81306	-
		.020						81263	81307	-

** 2" Arbor Hole with $1/2 \times 1/4$ Keyways (2).

ANSI Standard B165.1

Please refer to the chart on page 10 of this catalog, for correlating minimum arbor hole and maximum face width standards.

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Engineered Solutions

ADVANCE technicians have developed stateof-the-art manufacturing equipment to produce special brush configurations based on your application. The standard parameters are preset as listed in the tables below. If the catalog lacks the brush required, simply contact our technical support group at:

Tel: (800) 342-9015. Fax: (978) 840-6421

E-mail: techsupport@pferdusa.com

We welcome the opportunity to provide technical service to assist you in your surface conditioning and finishing needs. Please have ready the information requested on page six, and keep this page handy as a reference point for discussions with our technical department.



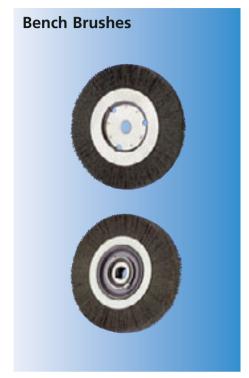


Dia.	Trim	Fixed Ar	bor Hole	Trim	Narrow Face	(1 Section)
	Version	Min.	Max.	Length	Width on Arbor	Approx. Face Width
5	Short	5/8-1/2	1-5/8	5/8	7/16	7/16
5	Standard	1/2	3/4	1-1/4	13/32	23/32
6	Short	5/8-1/2	1-5/8	13/16	7/16	7/16
6	Standard	5/8-1/2	1-5/8	1-1/8	7/16	23/32
6	Long	1/2	3/4	1-3/4	13/32	27/32
7	Short	5/8	3	1	15/32	15/32
7	Standard	5/8	1-5/8	1-5/16	7/16	3/4
7	Long	5/8	1-5/8	1-5/8	7/16	27/32
8	Short	3/4	4-1/4	7/8	1/2	1/2
8	Standard	5/8	3	1-1/2	15/32	27/32
8	Long	5/8	1-5/8	2-1/8	7/16	31/32
10	Standard	3/4	4-1/4	1-7/8	1/2	31/32
10	Long	3/4	3	2-1/2	15/32	1-3/32
12	Short	1	4-1/4	1-5/8	1/2	1/2
12	Standard	1	4-1/4	2-7/8	1/2	1-7/32
12	Long	1	3	3-1/2	15/32	1-11/32

Dia.	Trim	Arbor	Holes	Trim	Med. Face	(2 Sections)	Wide Face (3	Sections)
	Version	Bushed Min.	Center Opening	Length	Width on Arbor	Approx. Face Width	Width on Arbor	Approx. Face Width
5	Short	1/2	2	5/8	25/32	3/4	1-3/32	1-3/32
5	Standard	1/2	1-1/8	1-1/4	23/32	1	1	1-5/16
6	Short	1/2	2	13/16	25/32	3/4	1-3/32	1-3/32
6	Standard	1/2	2	1-1/8	25/32	1-1/32	1-3/32	1-3/8
6	Long	1/2	1-1/8	1-3/4	23/32	1-1/8	1	1-7/16
7	Short	5/8	3-3/8	1	27/32	13/16	1-7/32	1-7/32
7	Standard	5/8	2	1-5/16	25/32	1-1/16	1-3/32	1-13/32
7	Long	5/8	2	1-5/8	25/32	1-5/32	1-3/32	1-1/2
8	Short	5/8	4-5/8	7/8	15/16	29/32	1-5/16	1-5/16
8	Standard	5/8	3-3/8	1-1/2	27/32	1-3/16	1-7/32	1-19/32
8	Long	5/8	2	2-1/8	25/32	1-9/32	1-3/32	1-5/8
10	Standard	3/4	4-5/8	1-7/8	15/16	1-3/8	1-3/4	2-1/8
10	Long	3/4	3-3/8	2-1/2	27/32	1-7/16	1-3/4	2-3/8
12	Short	1	4-5/8	1-5/8	15/16	29/32	1-3/4	2
12	Standard	1	4-5/8	2-7/8	15/16	1-5/8	1-3/4	2-1/2
12	Long	1	3-3/8	3-1/2	27/32	1-11/16	1-3/4	2-5/8



Bench Brushes



High performance, general purpose wheel for bench or pedestal machines. Use for edge blending, flash removal, cleaning, removing paint, removing rust and corrosion, roughening, matte finishing, and light deburring work.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width on	MSFS Max.	Qty	EDP N	umber
(Inches)	Tiole	JIZE	Length	widti	Arbor	RPM	Qty	Quality	Economy
Standard	Face – Ca	rbon St	eel Wire (Solid Cen	ter)**				
4	1/2, 3/8	.008	3/4	1/2	13/32	12,500	2	81442	81420
		.014						81443	81421
6	5/8, 1/2	.008	1-1/8	5/8	1/2	8,000	2	81444	81422
		.014						81445	81423
7	5/8	.008	1-7/16	19/32	1/2	7,500	2	81446	81424
		.014						81447	81425
8	1-1/4*, 1,	.008	1-1/2	13/16	11/16	6,000	2	81448	81426
	3/4, 5/8	.014						81449	81427
10	1-1/4*, 3/4	.014	1-7/8	1	13/16	4,200	2	81450	-
Wide Fac	e – Carbo	n Steel	Wire (Ada	pter Style	e)***				
6	2	.008	1-1/8	29/32	15/16	6,000	1	81456	81432
		.014						81457	81433
7	2	.008	1-5/16	31/32	15/16	6,000	1	81458	81434
		.014						81459	81435
8	2*	.008	1-1/2	1-1/8	15/16	4,500	1	81460	81436
		.014						81461	81437
10	2*	.014	1-7/8	1-1/8	1	3,600	1	81462	-

- * With double keyway.
- ** Standard Face use with Adapter "A," on page 23.
- *** Wide Face use with Adapter "B," on page 23.



New EZmount® crimped wire wheel eliminates mounting problems commonly found with other bench brushes. It's designed with a non-contoured, flat side profile that matches all mounting flanges on pedestal and bench grinders for a correct fit without a need for adapters.

Easy installation takes seconds. Its telescoping bushing is self-sizing and makes full width contact to prevent it from falling into spindle threads.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width on	MSFS Max.	Qty	EDP Number
(Inches)		Size	Length	widti	Arbor	RPM	Qty	Steel
6	2, 1, 3/4,	.008	7/8	7/8	3/4	6,000	1	81473
	5/8, 1/2	.014						81474
8	2, 1, 3/4,	.008	1-3/16	7/8	3/4	4,500	1	81477
	5/8	.014						81478



These adapter reducing rings are included with each EZmount for hole diameter variability. The 1/2" reducing ring is supplied

with 6" dia. brushes only. Also available in metric sizes.

Outside Diameter	Size Range	Qty	EDP Number
2	1, 3/4, 5/8, 1/2	1	84615



ECAP® Encapsulated Wheels - Narrow, Medium and Wide Face

Encapsulated Brush Grades

(For complete Encapsulated product information, see page 53.)



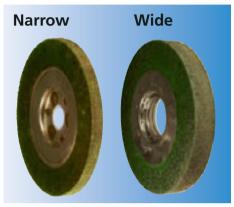
Aggressive enough for most applications. Best grade for general use. Green color.



For higher pressure applications and excessive heat. Black color.

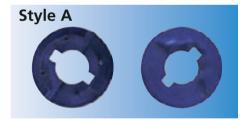


Super aggressive, tough cleaning, with narrow face wheels. Blue color.



Encapsulation material gradually wears away to consistently maintain a short trim length for more aggressive brushing and long service life. Elastomer provides precision control of contact area on workpiece.

Brush Dia.	Arbor Hole	Wire Size	ECAP Grade	Trim Length	Face Width	MSFS RPM	Qty	EDP Number
(Inches)	Hole	J.LC	Grade	Length	· · · · · · · · · · · · · · · · · · ·		Qty	Steel
Narrow Fa	ace							
4	5/8-1/2	.010	E3	3/4	13/32	6,000	1	83526
		.014						83527
6	1-1/4*	.006	E3	1-1/8	7/16	6,000	1	83528
		.008						83529
		.010						83531
		.014						83533
	5/8-1/2	.010	E3	1-1/8	7/16	6,000	1	83530
		.014						83532
8	1-1/4*	.008	E3	15/32	1-1/2	6,000	1	83534
		.010						83535
Medium F	ace							
6	2	.012	E3	1-1/8	13/16	4,500	1	83538
8	2**	.012	E3	1-1/2	1	4,500	1	83540
10	2**	.012	E3	1-7/8	1	3,600	1	83542
12	2**	.012	E3	2-7/8	1-5/16	3,000	1	83543
Wide Face	•							
4-1/4	2	.012	E3	7/8	1	6,000		83544
6	2	.012	E3	1-1/8	1-3/32	6,000		83546



Keyed Arbor Adapters* - Style A have built-in keyways to reduce all narrow face brushes manufactured to 1-1/4" arbor hole with dual keyways to common arbor hole sizes.

Style B	

2" Keyed Arbor Adapters** - Style B have built-in keyways to reduce all medium face and wide face brushes manufactured to 2" arbor hole with dual keyways to common arbor hole sizes. (Note: Tabs must be removed for use on 6" and 7" diameter brushes, or order Style C, without keyways).

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number					
Adapter Style A								
1/2	1/8 x 3/32 (2)	1	84605					
5/8	3/16 x 1/8 (2)	1	84606					
3/4	3/16 x 1/8 (2)	1	84607					
7/8	3/16 x 1/8 (2)	1	84608					
1	1/4 x 5/32 (2)	1	84609					
Adapte	r Style B							
1/2	1/8 x 3/32 (2)	1	84620					
5/8	3/16 x 1/8 (2)	1	84621					
3/4	3/16 x 1/8 (2)	1	84622					
7/8	3/16 x 1/8 (2)	1	84623					
1	1/4 x 5/32 (2)	1	84624					
1-1/4	1/4 x 5/32 (2)	1	84625					

Wheel Arbor Hole	Shaft Size Qty		EDP Number					
Adapter Style C – 2" Round Arbor								
2	1/2	1	84628					
2	5/8	1	84629					
2	3/4	1	84630					
2	7/8	1	84631					
2	1	1	84632					
2	1-1/4	1	84633					
2	1-1/2	1	84634					

Style C – 2" Round Arbor Adapters - reduce all adapter style brushes manufactured to 2" round arbor hole to common arbor hole sizes.

ANSI Standard B165.1

Please refer to the chart on page 10 of this catalog, for correlating minimum arbor hole and maximum face width standards.



Tube Center Ring Brushes





These small diameter wire wheel brushes are designed for use in restricted or hard-to-reach areas. They are excellent tools for

deburring, blending, and cleaning of surfaces. See next page for listing of adapters and drive arbors.

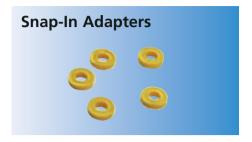
Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	MSFS Max.	Qty	EI	OP Numb	er
(Inches)	Tiole	Size	Length	widti	RPM	[Qty]/	Steel	Stainless	Brass
1	1/4	.003	1/4	3/16	20,000	10	-	81560	-
		.006					81500	81562	-
1-1/4	1/4	.003	3/8	1/4	20,000	10	81502	-	-
		.006					81503	-	-
		.008					81504	81565	-
	3/8	.008	5/16	1/4	20,000	10	81505	-	-
		.014					81507	-	-
1-3/8	1/4	.006	3/8	1/4	20,000	10	81508	-	-
		.008					81509	-	-
		.010					81510	-	-
	3/8	.005	3/8	1/4	20,000	10	-	-	81600
		.008					81512	-	-
1-1/2	3/8	.005	7/16	1/4	20,000	10	-	81567	-
		.006					81514	81568	-
		.008					81515	81569	-
		.010					81516	-	-
		.012					81517	-	-
		.014					81518	-	-
	1/2-3/8	.008	1/4	1/4	20,000	10	81520	-	-
2	1/2	.003	1/2	3/8	20,000	10	81525	81573	-
		.005					-	81574	81601
		.006					81526	81575	-
		.008					81527	81576	-
		.010					81528	81577	-
	1/2-3/8	.012	1/2	3/8	20,000	10	81529	81578	-
		.014					81530	81579	81602
	9/16	.012	1/2	3/8	20,000	10	81531	-	-
2-1/2	1/2	.006	3/4	1/2	20,000	10	81532	-	-
		.008					81533	81581	-
	1/2-3/8	.012	3/4	1/2	20,000	10	81534	81582	-
		.014					81535	-	-
	5/8	.006	11/16	9/16	20,000	10	81536	-	-
		.008					81537	81583	-
		.010					81538	-	-
		.012					81539	81584	-
		.014					81540	-	-
3	1/2	.003	1	5/8	20,000	10	81541	-	-
		.006					81542	81586	-
		.008					81543	81587	-
		.010					81544	81588	-
	1/2-3/8	.012	1	5/8	20,000	10	81545	81589	-
		.014					81546	81590	-
	5/8	.003	15/16	5/8	20,000	10	81547	-	-
		.005					-	-	81603
		.006					81548	81592	-
		.008					81549	81593	-
		.010					81550	-	-
		.012					81551	-	-
		.014					81552	81596	81604
4	5/8	.008	1-1/2	1/2	20,000	10	81553	81597	-
		.014					81554	81598	-

Tube Center Ring Brushes are also available in a variety of filaments:

•	
Filament Type	Catalog Page
Encapsulated	54
M-Brad	61
Tampico	66
Nylon	66

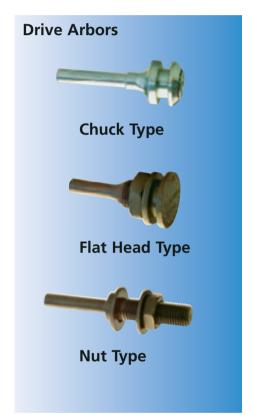


Tube Center Ring Adapters and Accessories, and Platers Brush



Outside Dia.	Inside Dia.	Thickness	Qty	EDP Number
5/8	1/2	5/32	10	84636
5/8	3/8	5/32	10	84637
5/8	1/4	5/32	10	84638

Outside Dia.	Inside Dia.	Thickness	Qty	EDP Number
1/2	3/8	5/32	10	84639
1/2	1/4	5/32	10	84640
3/8	1/4	5/32	10	84641



Chuck:

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 shaft.

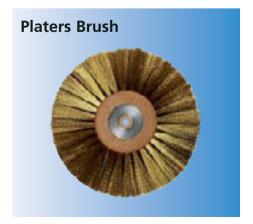
Flat Head:

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

Nut:

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

Fits Brush ID	Wheel Width	Shank Dia	Head/ Washer Dia	Overall Length	Qty	EDP Number	
Chuck							
1/4	1/4 to 3/8	1/4	9/16	2-1/8	5	84650	
3/8	1/4 to 3/8	1/4	11/16	2-1/8	5	84651	
1/2	1/4 to 3/8	1/4	3/4	2-1/8	5	84652	
Flat Head 1	Гуре						
1/4	Up to 3/4	3/16	5/8	1-3/4	5	84653	
3/8	Up to 3/8	1/4	3/4	1-5/8	5	84654	
1/2	Up to 3/8	1/4	7/8	1-7/8	5	84655	
5/8	Up to 3/8	1/4	7/8	1-7/8	5	84656	
Nut Type							
1/4	Up to 3/4	1/4	1/2	2-1/2	5	84657	
3/8	Up to 3/4	1/4	3/4	2-1/2	5	84658	
1/2	Up to 1/4	1/4	7/8	1-3/4	5	84659	



Special crimped wire wheel brush with fine brass wire. Features a wood hub, and a lead-filled center. Used for light deburring,

surface cleaning and finishing. Achieves a fine brush or satin finish.

Brush Dia.	Arbor Hole	Wire Size	Rows Wide	Trim Length	Face Width	MSFS Max.		EDP Number		
(Inches)	Hole	SIZE VV	vvide	wide Length	width	RPM	Qty	Steel	Brass	
3	1/4	.003	2	7/8	1/2	1,100	1	81615	81622	
4	1/4	.004	2	1-1/4	15/16	1,100	1	81616	81623	
6	1/4	.004	4	1-3/4	15/16	1,100	1	81617	81624	
		.005						81618	81625	
		.004	4	1-3/4	15/16	1,100	1	81619	81626	
		.005						81620	81627	



Standard Twist - Single Row



About Knot Wheels

Knot-type brushes are comprised of filaments twisted together to act as a single unit. These filament groups strike the substrate with much more momentum and impact than individual filaments, providing far more aggressive cutting action.

The filaments are mechanically retained by inserting them through a hole or slot in a steel center disc, then twisting the individual strands together, in similar fashion to wire rope or cable. Several knot styles are available,

ranging from a tightly-wound, hard, solid mass to a loosely-twisted bundle. Knot configuration is tailored to meet the needs of the specific application.

Knot brushes are available only in wire fill material. Brushes can be ganged or stacked to obtain greater width.

Applications: Weld spatter removal, blending tool marks, cleaning and deburring, removal of scale and encrustations.



Standard twist has open knots and is ideal when heavy duty or severe cleaning is required. Especially recommended for weld cleaning, weld spatter removal, scale removal, cleaning, deburring, and flash removal.

Snap-In Plastic Adapter for Single Row Knot Wheels Standard and Full Cable Twist

Outside Dia.	Inside Dia.	Qty	EDP Number
1/2	3/8	10	84602
5/8	1/2	10	84603

Advance Knot Wheel Adapters for 8" diameter wheels and larger

Arbor Hole (Inches)	EDP Number
1-1/4 to 3/4	84612
1-1/4 to 7/8	84613
1-1/4 to 1	84614

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width On	MSFS Max	Oty	EDP N	umber
(Inches)	TIOIC	Size	Length	Width	Arbor	RPM	Qty]/	Steel	Stainless
3	1/2-3/8	.012	3/4	7/16	7/16	25,000	10	81650	81800
		.014						81651	81801
		.020						81652	81802
4	1/2-3/8	.012	3/4	5/8	7/16	20,000	10	81656	81806
		.014						81657	81807
		.020						81658	81808
	5/8-1/2	.012	3/4	5/8	7/16	20,000	10	81659	81809
		.014						81660	81810
		.020						81661	81811
6	5/8-1/2	.012	1-1/8	5/8	9/16	9,000	10	81665	81815
		.014						81666	-
		.016						81667	81816
		.023						81668	-
7	5/8	.014	1-5/8	5/8	9/16	9,000	2	81694	-
8	3/4	.014	1-5/8	5/8	5/8	7,000	2	81698	-
	5/8	.012	1-5/8	5/8	5/8	7,000	2	81702	81829
		.014						81703	-
		.016						81704	81830
		.020						81705	-
		.023						81706	-
	1-1/4	.014	1-5/8	5/8	5/8	7,000	2	81708	-
		.023						81711	-
10	3/4	.014	2-1/8	3/4	5/8	5,400	2	81723	-
	1-1/4	.012	2-1/8	3/4	5/8	5,400	2	81727	-
		.014						81728	-
		.016						81729	-
12	1-1/4	.012	2	3/4	5/8	4,500	2	81752	-
		.014						81753	-
		.016						81754	-
		.020						81755	-
	2	.014	2	3/4	5/8	4,500	2	81763	81861
		.023						81766	-
15	1-1/4	.016	3-1/2	7/8	5/8	3,600	2	81773	-
	2	.016	3-1/2	7/8	5/8	3,600	2	81777	-
		.023						81778	-



Standard Twist Long Flag, Double Row, and Short Trim Knot Wheel Brushes



Extended flag length provides a better surface finish than standard twist knot brushes, while brushing more aggressively than crimped wire wheels.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width On	MSFS Max		EDP N	lumber
(Inches)	поје	Size	Length	width	Arbor	RPM	Qty	Steel	Stainless
6	5/8-1/2	.012	1-1/8	5/8	9/16	9,000	10	81880	81960
		.014						81881	-
		.016						-	81961
		.020						81883	-
8	5/8	.012	1-5/8	5/8	5/8	7,000	2	-	81974
		.014						81889	-
		.016						-	81975
		.020						81891	-
10	3/4	.014	2-1/8	3/4	5/8	5,400	2	81898	-
	1-1/4	.012	2-1/8	3/4	5/8	5,400	2	81902	-
		.014						81903	-
		.016						81904	-
12	1-1/4	.012	2	3/4	5/8	4,500	2	81927	-
		.014						81928	-
		.016						81929	-
		.020						81930	-
	2	.014	2	3/4	5/8	4,500	2	81938	-
		.020						81940	-

Standard Twist – Heavy Duty Double Row

For deflashing/cleaning of insert molded rubber parts, removing heavy surface contamination, and heavy deburring of machine parts.

Brush	Arbor	Wire	Trim	Face	Width	MSFS		EDP Number
Dia. (Inches)	Hole*	Size	Length	Width	On Arbor	Max RPM	Qty	Steel
3	1/2-3/8	.012	3/4	3/4	3/4	20,000	5	82030
		.020						82031
4	5/8-1/2	.014	3/4	1	1-1/8	20,000	5	82032
6	2	.012	1-1/8	1	1-1/8	7,800	5	82033
		.016						82034
8	2	.012	1-5/8	1-1/8	1-1/8	6,000	1	82035
		.016						82036
		.023						82037
10	2	.012	2-1/8	1-1/4	1-1/4	4,800	1	82038
		.016						82039
		.023						82040
12	2	.012	2	1-5/8	1-1/4	4,000	1	82041
		.016						82042
		.023						82043

*Use Style C – 2" Round Arbor Adapters to reduce to smaller arbor hole sizes. See page 23 for listing.



Extremely heavy duty removal. Maximum brushing action.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width MSFS On Max					EDP Number
(Inches)	Tiole	JIZE	Length	width	Arbor	RPM	Qty	Steel		
10	2	.020	1-1/8	3/4	1/2	5,400	1	82053		
12	2	.014	1-1/2	1/2	1/2	4,300	1	82055		
14	1-1/4*	.014	1-1/2	1/2	1/2	3,850	1	82059		
		.016						82060		
		.020						82061		
	2**	.014	1-1/2	1/2	1/2	3,850	1	82062		
		.016						82063		
15	2**	.020	2-1/8	3/4	5/8	3,500	1	82069		

- * With double keyway 1/4" x 1/8"
- ** With double keyway $1/2" \times 1/4"$



Full Cable Twist, Expansion Joint, and Pipe Cleaning Brushes



For the toughest applications, full cable twist wire tufts provide low flex, high impact cleaning action and narrow face widths.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width On	MSFS Max		EDP Number
(Inches)	поте	Size	Length	wiatii	Arbor	RPM	Qty	Steel
4	1/2-3/8	.014	3/4	3/8	7/16	20,000	10	82100
		.020						82101
	5/8-1/2	.014	3/4	3/8	7/16	20,000	10	82102
		.020						82103
6 (24kt)	5/8-1/2	.023	1-1/4	3/8	9/16	10,000	10	82109
6 (30kt)	5/8-1/2	.023	1-1/4	1/2	9/16	10,000	10	82113
8	5/8	.023	1-5/8	3/8	5/8	7,000	2	82118
10	3/4	.023	2-5/8	3/8	5/8	5,400	2	82120
	1-1/4	.023	2-5/8	3/8	5/8	5,400	2	82121
12	1-1/4	.023	2	1/2	5/8	4,500	2	82123

Snap-In Plastic Adapter for Standard and Full Cable Twist

Outside Dia.	Inside Dia.	Qty	EDP Number
1/2	3/8	10	84602
5/8	1/2	10	84603

Advance Knot Wheel Adapters for 10" diameter wheels and larger

	utside Dia.	Inside Dia.	Qty	EDP Number
1	-1/4	3/4	10	84612
1	-1/4	7/8	10	84613
1	-1/4	1	10	84614



Long trim for joint penetration, and finer wire for extended life. Used for removing road joint material. 3/8" drive pin hole.

Brush Dia.	Arbor Hole	Wire Size	Trim Length	Face Width	Width On	MSFS Max	Qty	EDP Number
(Inches)	Tiole	SIZC	Length	Width	Arbor	RPM	Qty	Steel
10	1	.028	2-1/4	3/8	1/2	4,500	2	82075
		.035						82076
12	1	.028	3-1/4	3/8	1/2	4,500	2	82077
		.035						82078





Tightly knotted, long-lasting, aggressive multi-section wheel is easy to install. Works

hard removing rust and protective coating from pipe ends, before beveling or welding.

Brush Dia.	Arbor Hole	Wire Size	Trim Lenath	Face Width Width On		MSFS Max		EDP Number
(Inches)	Tiole	3120	Length	wiatii	Arbor	RPM	Qty /	Steel
10	1-1/4*	.020	2-1/4	3/4	3/4	5,400	1	82083
10+	2	.020	2-1/4	2-3/8	2	4,800	1	82084

- * With double keyway 1/4" x 1/8"
- + Multi-Section Brush

ANSI Standard B165.1

Please refer to the chart on page 10 of this catalog, for correlating minimum arbor hole and maximum face width standards.

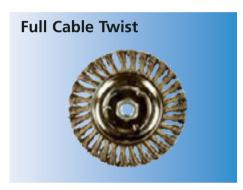


Knot Wheels - Standard and Full Cable Twist



For general applications, knotted construction provides high-impact brushing.

Brush Dia.	Thread Size	Wire Size	Trim Face MSFS Tength Width Max.			EDP Number			
(Inches)	Size	Size	RPM		Qty	Steel	Stainless	Brass	
4	5/8-11	.014	7/8	5/8	20,000	10	82153	82283	82366
		.020					82154	82284	-
5	5/8-11	.020	5/8	5/8	15,000	10	82470	82596	-
6	5/8-11	.014	1-1/8	5/8	9,000	10	82471	-	-
		.016					82472	82597	-
		.023					82473	82598	-



For the toughest applications, full cable twist wire tufts provide low flex, high impact cleaning action.

Brush Dia.	Thread Size	Wire Size	No. of Knots	Trim	Face Width	MSFS Max		EDP	Number
(Inches)	Size	Size	KIIOUS	Length	ngai waa		Qty	Steel	Stainless
4	4 5/8-11	.014	24	3/4	3/8	20,000	10	82165	82295
		.020						82166	82296
5	5/8-11	.023	24	3/4	3/8	15,000	10	82474	82599
6	5/8-11	.016	24	1-1/4	3/8	10,000	10	82475	82600
		.016	30	1-1/4	1/2	10,000	10	82476	82601
		.023	24	1-1/4	3/8	10,000	10	82477	82602
		.023	30	1-1/4	1/2	10,000	10	82478	82603

NEW PRODUCT – COMBITWIST®



COMBITWIST® (For additional product information, see page 36.)

- More Aggressive Brushing
- Longer Brush Life
- Superior Rotational Balance Faster Stock Removal
- Reduced Operator Fatigue Better Surface Finish





Brush	Thread	Wire	Trim	Face	MSFS		EDP Number		
Dia. (Inches)	Size	Size	Length	Width	Max. RPM	Qty	Steel	Stainless	
4	5/8-11	.014	7/8	5/8	20,000	10	82383	82412	
		.020					82384	82413	
5	5/8-11	.020	5/8	5/8	15,000	10	82680	82749	
6	5/8-11	.014	1-1/8	5/8	9,000	10	82681	-	
		.016					82682	82752	
		.023					82683	82753	



Brush					EDP Number				
Dia. (Inches)	Size	Size	Knots	Length	vviatn	RPM	Qty	Steel	Stainless
4	4 5/8-11	.014	24	3/4	3/8	15,000	10	82387	82416
		.020						82388	82417
5	5/8-11	.023	24	3/4	3/8	15,000	10	82684	82754
6	5/8-11	.016	24	1-1/4	3/8	10,000	10	82685	82755
		.016	30	1-1/4	1/2	10,000	10	82686	82756
		.023	24	1-1/4	3/8	10,000	10	82687	82757
		.023	30	1-1/4	1/2	10,000	10	82688	82758



Knot Wheels - Stringer Bead Twist, Encapsulated Stringer Bead



Fastest cutting action. 5-25% more productivity power than competitive brushes, more knots, better value.

Brush Dia.	Thread Size	Wire Size	No. of Knots	Trim Length	Face Width	MSFS Max		EDP N	lumber
(Inches)	Size	Size	KIIOIS	Length	widti	RPM	Qty	Steel	Stainless
4	5/8-11	.020	32	3/4	3/16	20,000	10	82186	82307
4-7/8	5/8-11	.020	38	1-1/16	3/16	15,000	10	82479	82604
		.020	48				10	82483	82608
	7/8	.020	38	1-1/16	3/16	15,000	10	82480	82605
	M14x2.0	.020	38	1-1/16	3/16	15,000	10	82481	82606
		.020	48				10	82484	82609
6	5/8-11	.020	40	3/4	3/16	12,500	10	82486	82611
		.020	48				10	82487	82612
		.020	56				10	82488	82613
		.020	72				10	82489	82614
6-7/8	5/8-11	.020	56	1-1/8	3/16	9,000	10	82494	82619
		.020	72				10	82495	82620



Brush Dia.	Thread Size	Wire Size	No. of Knots	Trim Length	Face Width	MSFS Max		EDP N	umber	
(Inches)		Size	Kilots	Length	widti	RPM	Qty	Steel	Stainless	
4	5/8-11	.020	48	3/4	3/16	15,000	10	82689	82759	
	M14x2.0	.020	48	3/4	3/16	15,000	10	82690	82760	
6	5/8-11	5/8-11	.020	40	1-1/4	3/16	12,500	10	82692	82762
		.020	48				10	82693	82763	
		.020	56				10	82694	82764	
		.020	72				10	82695	82765	
6-7/8	5/8-11	.020	56	1-1/8	3/16	9,000	10	82700	82770	
		.020	72				10	82701	82771	



Ideal for large diameter pipe construction. Extra heavy duty E5 grade resists deflection, fracture and crumbling, providing a shorter, more aggressive trim length.

Brush Dia.	Thread Size	Wire Size	ECAP	Trim	Face Width	MSFS Max		EDP	Number
(Inches)	Size	Size	Grade	Length	wiath	RPM	Qty	Steel	Stainless
Knot Wire									
4	5/8-11	.020	E4	7/8	3/16	9,000	10	83511	-
	1/2-13							83512	-
6-7/8	5/8-11	.020	E4	1-9/16	3/16	9,000	10	83513	-
	7/8							83514	-
Crimped \	Vire								
6	5/8-11	.014	E4	1-1/16	3/16	9,000	10	83507	-
	7/8							83508	-
7	5/8-11	.014	E4	1-9/16	3/16	9,000	10	83509	-
			E5					83517	83520
	7/8	.014	E4	1-9/16	3/16	9,000	10	83510	-
			E5					83518	83521

Encapsulated Brush Grades



Aggressive enough for most applications. Best grade for general use. Green color.



For higher pressure applications and excessive heat. Black color.



(For complete Encapsulated product information, see page 53.)

Super aggressive, tough cleaning, with narrow face wheels.
Blue color.



Bevel Wheels



Tapered shape is ideal for reaching into corners and inside edges. Crimped wire provides light brushing action and superior surface finish.

Brush Dia.	Thread Size	Wire	Trim			Ottv	EDP Number
(Inches)	Size	e Size Length Width	RPM	Qty	Steel		
4	5/8-11	.014	3/4	1/2	15,000	5	82213



Ideal for working in hard-to-reach areas. Knot wire provides a more aggressive abrasive action than crimped wire. For deburring, weld scale removal, and edge blending of fillets, grooves and inside edges.

- 1	Brush	Thread Size	Wire	No. of	Trim	Face	MSFS		EDP I	Number
(1	Dia. nches)	Size	Size	Knots	Length	Width	Max RPM	Qty	Steel	Stainless
	4	5/8-11	.014	22	3/4	1/2	20,000	5	82201	82317
			.020						82202	82318
	M14x2.	M14x2.0	.014	22	3/4	1/2	20,000	5	82211	82327
			.020						82212	82328
	4-1/2 5/8-11	.014	24	1	1/2	15,000	1	82500	82625	
			.020						82501	82626
		M14x2.0	.014	24	1	1/2	15,000	1	82502	82627
			.020						82503	82628
	5	5/8-11	.014	28	3/4	1/2	15,000	1	82504	82629
			.020						82505	82630
		M14x2.0	.014	28	3/4	1/2	15,000	1	82506	82631
			.020						82507	82632
	7	5/8-11	.014	28	1-1/8		10,000	1	82508	82633
			.020						82509	82634

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Crimped and Standard Twist Knot Cups

ADVANCE cup brushes are designed for heavy-duty cleaning, deburring, roughening and corrosion removal. Designed for use on production equipment, angle grinders, portable power tools, sander/ polishers, etc. Available in a range of cup diameters and filament knot styles

to properly fit your application requirements, including pipe cleaning, structural steel, weld cleaning, tank car and ship fabrication and nuclear power plant construction. ADVANCE cup brushes offer high cutting action with flexibility, excelling on large flat and curved surfaces.



Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max		EDP N	lumber
(Inches)	Size	Size	Length	RPM	Qty	Steel	Stainless
3-1/2	5/8-11	.014	7/8	12,500	1	82249	82359
		.020			1	82255	82365
4	5/8-11	.014	1-1/4	9,000	1	82510	-
		.020			1	82511	82635
	M14x2.0	.014	1-1/4	9,000	1	82512	-
		.020			1	82513	82636
5	5/8-11	.014	1-1/4	8,000	1	82514	-
		.020			1	82515	82637
6	5/8-11	.014	1-3/8	6,000	1	82516	-
	3,0 11	.020			1	82517	82638

Ideal for general purpose use. Light to medium duty applications. Leaves superior finish.



Suitable for mounting on production equipment or angle grinders. Used for deburring and surface cleaning.

Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max		EDP Number
(Inches)	3126	Size	Length	RPM	Qty	Steel
3-1/2	5/8–11	.014	1-3/8	7,000	1	82537
		.020			1	82538
4	5/8-11	.014	1-1/2	7,000	1	82539
		.023			1	82540
	M14x2.0	.014	1-1/2	7,000	1	82541
		.023			1	82542
5	5/8-11	.014	1-1/2	7,000	1	82543
		.023			1	82544
6	5/8-11	.014	1-5/8	6,000	1	82545
	3,6 11	.023			1	82546



Knotted construction provides high-impact brushing. Heavy-duty brushing action for faster removal rates on tougher jobs.

Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max	Ottv	E	DP Numbe	er
(Inches)	Size	3126	Length	RPM	Qty]/	Steel	Stainless	Brass
3-1/2	5/8-11	.014	7/8	12,500	1	82231	82341	82368
		.020			1	82232	82342	-
4	5/8-11	.014	1-1/4	9,000	1	82522	82647	-
		.023			1	82523	82648	-
		.035			1	82524	-	-
	M14x2.0	.014	1-1/4	9,000	1	82525	82649	-
		.023			1	82526	82650	-
		.035			1	82527	-	-
5	5/8-11	.014	1-3/8	7,000	1	82528	82651	-
		.023			1	82529	82652	-
6	5/8-11	.014	1-1/2	6,000	1	82530	82653	-
		.023			1	82531	82654	-
		.035			1	82532	-	-



COMBITWIST® Double Row and Bridled Knot Cups

NEW PRODUCT – COMBITWIST®



COMBITWIST® (For additional product information, see page 36.)

More Aggressive Brushing

Longer Brush Life

- Superior Rotational Balance Faster Stock Removal
- Reduced Operator Fatigue
- Better Surface Finish



Premium knot cup featuring maximum service life, improved balance and fastest removal rates.

Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max		EDP N	lumber
(Inches)	Size	3126	Length	RPM	Qty	Steel	Stainless
2-3/4	5/8-11	.014	7/8	14,000	5	82750	82855
		.020			5	82751	82856
3-1/2	5/8-11	.014	7/8	12,500	1	82401	82430
		.020			1	82402	82431
4	5/8-11	.014	1-1/4	9,000	1	82716	82789
		.023			1	82717	82790
		.035			1	82718	-
	M14x2.0	.014	1-1/4	9,000	1	82719	82791
		.023			1	82720	82792
		.035			1	82721	-
5	5/8-11	.014	1-3/8	7,000	1	82722	82793
		.023			1	82723	82794
6	5/8-11	.014	1-1/2	6,000	1	82724	82795
		.023			1	82725	82796
		.035			1	82726	-

COMBITWIST® Double Row External Thread	

Choose these double row knot cups for the most severe applications. Very aggressive, high impact brushing action. Optimal removal rates and service life.

Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max		EDP Number		
(Inches)			Qty /	Steel	Stainless			
4	5/8-11	.014	1-3/8	9,000	1	82552	-	
		.023			1	82553	82657	
	M14x2.0	.014	1-3/8	9,000	1	82554	_	
		.023			1	82555	82658	
6	5/8-11	.014	1-1/2	6,000	1	82556	_	
		.023			1	82557	82659	
		.035			1	82558	-	



Removable band creates a shorter trim length for extra heavy duty applications.

Brush Dia.	Thread Wire Trim MSFS Size Size Length Max						EDP Number
(Inches)	Size	Size	Length	RPM	Qty	Steel	
4	5/8-11	.014	7/8	9,000	1	82562	
		.020			1	82563	
5	5/8-11	.023	7/8	7,000	1	82564	
6	5/8-11	.023	7/8	6,600	1	82565	
		.035			1	82566	



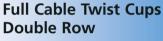
Full Cable Twist and Encapsulated Cups



Designed for most aggressive brushing action on large, rough surfaces where heavy removal is desired.

Solid construction is beneficial in removing surface contaminants such as weld scale, concrete, and slag.

Brush Dia.	Thread Size	Wire Size	Trim Length	MSFS Max		EDP N	lumber
(Inches)	Jize	Jize Length		RPM	Qty]	Steel	Stainless
4	4 5/8-11	.014	1-3/8	7,000	1	_	82663
		.020			1	82567	82664
		.023			1	82568	-
		.035			1	82569	-
5	5/8-11	.023	1-3/8	6,000	1	82570	82665
6	5/8-11	.014	1-1/2	6,000	1	-	82666
		.023			1	82571	82667
		.035			1	82572	-





High-impact full cable twist cup brush with two rows of knots. Achieves the most

aggressive brushing action with longest service life.

Brush	Di Ci Ci Laudi Ma		EDP Number				
(Inches)	3126	Size	Length	RPM	Qty]/	Steel	Stainless
4	5/8-11	.020	1-3/8	7,000	1	82573	82668
6	5/8-11	.023	1-1/2	6,000	1	82574	82669
		.035			1	82575	-

Encapsulated Brush Grades

Encapsulated Cup



Aggressive enough for most applications. Best grade for general use. Green color.



For higher pressure applications and excessive heat. Black color.



Super aggressive, tough cleaning, with narrow face wheels. Blue color.

Encapsulated cups offer more productive cleaning action due to the short trim effect

of encapsulation. Used for removing weld slags and scale in pipeline fabrication.



Brush Dia.	Thread Size					EDP Number	
(Inches)	Size	RPM		Qty	Steel		
4	5/8-11	.020	E3	1-1/8	7,000	1	83564
			E4				83570
6	5/8-11	.020	E3	1-1/4	6,000	1	83566
			E4				83571
			E5				83574



Knot Wheels - Standard and Standard COMBITWIST®



For roughing, weld scale and spatter
removal, surface conditioning and deburring.

Brush Dia.	Thread Size	Wire Size	Trim	Face Width	MSFS		E	DP Numb	er
(Inches)		Size	Length	vviatn	Max RPM	Qty	Steel	Stainless	Brass
3	M10x1.25	.014	5/8	7/16	25,000	10	82149	82279	-
	3/8-24	.014					82150	82280	-
4	5/8-11	.014	7/8	5/8	20,000	10	82153	82283	82366
		.020					82154	82284	-
	1/2-13	.014					82155	82285	-
		.020					82156	82286	-
	3/8-24	.014					82157	82287	-
		.020					82158	82288	-
	M10x1.50	.014					82159	82289	-
		.020					82160	82290	-
	M10x1.25	.014					82161	82291	-
		.020					82162	82292	-
	M14x2.0	.014					82163	82293	-
		.020					82164	82294	-





Brush Dia.	Thread Size	Wire Size	Trim Lenath	Face Width	MSFS Max.	Qty	EDP I	Number
(Inches)				Steel	Stainless			
4 5/8-11	5/8-11	.014	7/8	5/8	20,000	10	82383	82412
		.020					82384	82413



Adapter Inserts	Qty	EDP Number
5/8-11 UNC to M10 x 1.25	5	84645
5/8-11 UNC to M10 x 1.5	5	84646
5/8-11 UNC to 3/8-24	5	84647

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Full Cable Twist Wheel Brushes



For cap pass weld cleaning and heavy build-up removal.

Brush Dia.	Thread Size	Wire Size	No. of Knots	Trim Length	Face Width	MSFS Max		EDP	Number
(Inches)	Size	Size	Size Kilots Length V	vviatri	RPM	Qty	Steel	Stainless	
4	5/8-11	.014	22	3/4	3/8	15,000	10	82165	82295
		.020						82166	82296
	1/2-13	.014	22	3/4	3/8	15,000	10	82167	82297
		.020						82168	82298
	3/8-24	.014	22	3/4	3/8	15,000	10	82169	82299
		.020						82170	82300
	M10x1.25	.014	22	3/4	3/8	15,000	10	82171	82301
		020						82172	82302
	M10x1.50	.014	22	3/4	3/8	15,000	10	82173	82303
		.020						82174	82304
	M14x2.0	.014	22	3/4	3/8	15,000	10	82175	82305
		.020						82176	82306



Aggressive brushing, longer brush life.

Brush Dia.	Thread Size	Wire Size	No. of Knots			Oty	EDP I	Number	
(Inches)	3126	JIZE I	Kilots	Length	vvidti	RPM	[Qty]/	Steel	Stainless
4	4 5/8-11	.014	24	3/4	3/8	15,000	10	82387	82416
		.020						82388	82417

NEW PRODUCT COMBITWIST® Innovative COMBITWIST® knot design dramatically improves brush performance over conventional products. | Product Highlights: | More Aggressive Brushing | | Longer Brush Life | | Superior Rotational Balance | | Faster Stock Removal | | Reduced Operator Fatigue | | Better Surface Finish



Stringer Bead, Encapsulated, and Crimped Wheels



Narrow face for weld cleaning. Root and hot pass weld cleaning to ensure a successful pass of the filler weld.

Brush Dia.	Arbor/ Thread	Wire Size	No. of	Trim Length	Face Width	MSFS Max		EDP N	lumber
(Inches)	Size	Jize	Kilots	Length	widti	RPM	Qty	Steel	Stainless
4	5/8-11	.020	32	3/4	3/16	12,000	10	82186	82307
	1/2-13	.020						82187	82308
	3/8-24	.020						82188	82309
	M10x1.50	.020						82189	82310
	M10x1.25	.020						82190	82311
	M14x2.0	.020						82191	82312
	5/8	.020						82192	82313
	1/2	.020						82193	82314



Brush Dia.	Thread Size	Wire Size	No. of	Trim Lenath	Face MSFS Width Max		Qty	EDP Number	
(Inches)	Size	SIZC	Kilots	Length	Width	RPM	Qty	Steel	Stainless
4	5/8-11	.020	32	3/4	3/16	20,000	10	82391	82420

Encapsulated Brush Grades



Aggressive enough for most applications. Best grade for general use. Green color.

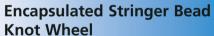


For higher pressure applications and excessive heat. Black color.



(For complete Encapsulated product information, see page 53.)

Super aggressive, tough cleaning, with narrow face wheels. Blue color.





Brush Dia.	Thread Size		ECAP Grade	Trim Length	Face Width	MSFS Max		EDP Number
(Inches)	Size	Size	Grauc	Length	Width Max Qty RPM		Qty	Steel
4	5/8-11	.020	E4	7/8	3/16	20,000	10	83511
	1/2-13	.020	E4	7/8	3/16	20,000	10	83512



Brush Dia.	Thread Size	Wire Size	Trim Length	Face Width	MSFS Max		E	DP Number		
(Inches)	3120	JIZE	Length	widti	RPM	Qty /	Steel	Stainless	Brass	
4	5/8-11	.014	11/16	1/2	12,500	10	82195	82316	82367*	
	1/2-13	.014					82196	-	-	
	3/8-24	.014					82197	-	-	
	M10x1.25	.014					82198	-	-	
	M10x1.50	.014					82199	-	-	
	M14x2.0	.014					82200	-	-	

^{*} Brass wire is .012 wire

For general surface cleaning.



Knot Cups



For use on hard-to-reach areas such as angles and corners, curved surfaces, and pipe bevel cleaning. Weld cleaning, scale removal, and heavy deburring.

Brush Dia.	Thread Size	Wire Size	Trim	MSFS Max		E	DP Numbe	er
(Inches)	Size	Size	Length	RPM	Qty	Steel	Stainless	Brass
2-3/4	5/8-11	.014	7/8	14,000	5	82219	82329	_
		.020				82220	82330	_
	1/2-13	.014			5	82221	82331	_
		.020				82222	82332	-
	3/8-24	.014			5	82223	82333	-
		.020				82224	82334	-
	M10x1.50	.014			5	82225	82335	-
		.0120				82226	82336	-
	M10x1.25	.014			5	82227	82337	-
		.020				82228	82338	-
	M14x.20	.014			5	82229	82339	-
		.020				82230	82340	-
3-1/2	5/8-11	.014	7/8	12,500	1	82231	82341	82368
		.020				82232	82342	-
	1/2-13	.014			1	82233	82343	-
		.020				82234	82344	-
	3/8-24	.014			1	82235	82345	-
		.020				82236	82346	-
	M10x1.50	.014			1	82237	82347	-
		.020				82238	82348	-
	M10x1.25	.014			1	82239	82349	-
		.020				82240	82350	-
	M14x.20	.014			1	82241	82351	-
		.020				82242	82352	-



NEW PRODUCT – COMBITWIST® COMBITWIST® (For additional product information, see page 36.) More Aggressive Brushing Faster Stock Ren



- More Aggressive Brushing Longer Brush Life Superior Rotational Balance
- Faster Stock RemovalReduced Operator FatigueBetter Surface Finish

Dia	Dia. Size Size Length Max		Qty	EDP Number			
(Inches)	Size	RPM		Qty	Steel	Stainless	
2-3/4	5/8-11	.014	7/8	14,000	5	82750	82855
		.020				82751	82856
3-1/2	5/8-11	.014	7/8	12,500	1	82401	82430
		.020				82402	82431



Adapter Inserts	Qty	EDP Number
Minigrinder Adapter Inser	ts	
5/8-11 UNC to M10x1.25	5	84645
5/8-11 UNC to M10x1.50	5	84646
5/8-11 UNC to 3/8-24	5	84647



Encapsulated and Crimped Cups

Encapsulated Brush Grades



Aggressive enough for most applications. Best grade for general use. Green color.



For higher pressure applications and excessive heat. Black color.



(For complete Encapsulated product information, see page 53.)

Super aggressive, tough cleaning, with narrow face wheels. Blue color.



Controlled area cleaning. Long life, increased aggressiveness. Uniform brushing action. Reduced wire breakage.

Brush Dia.	Thread Size	Wire Size	ECAP Grade	Trim Length	MSFS Max		EDP Number
(Inches)	Size	3126	Grade	Length	RPM	Qty	Steel
3-1/2	5/8-11	.014	E3	7/8	12,000	1	83559
	M10x1.25						83561
	M14x2.0						83562
	3/8-24						83563



2-3/4" for light duty application and surface cleaning. Flat brushing, edge cleaning, and flash removal.

3-1/2" for effective, fast, heavy-duty cleaning of large metal surfaces. Suitable for use on portable power tools to remove weld scale, paint, burrs, and corrosion.

Brush Dia.			Qty	EDP N	umber		
(Inches)	Size	Size	Length	RPM	Qty	Steel	Stainless
2-3/4	5/8-11	.014	7/8	14,000	5	82243	82353
	1/2-13	.014				82244	82354
	3/8-24	.014				82245	82355
	M10x1.50	.014				82246	82356
	M10x1.25	.014				82247	82357
	M14x2.0	.014				82248	82358
3-1/2	5/8-11	.014	7/8	12,500	1	82249	82359
		.020				82255	82365
	1/2-13	.014				82250	82360
	3/8-24	.014				82251	82361
	M10x1.50	.014				82252	82362
	M10x1.25	.014				82253	82363
	M14x2.0	.014				82254	82364

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Bevel Cups



Beveled shape is ideal for work in hardto-reach areas. For deburring, weld scale removal, edge blending of fillets, grooves and inside edges.

Brush Dia.	Thread Size	Wire Size	No. of Knots	Trim Length	Face Width	MSFS Max		EDP	Number
(Inches)		Size	KIIOLS	Length	wiatri	RPM	Qty	Steel	Stainless
4	5/8-11	.014	22	3/4	1/2	20,000	5	82201	82317
		.020						82202	82318
	1/2-13	.014						82203	82319
		.020						82204	82320
	3/8-24	.014						82205	82321
		.020						82206	82322
	M10x1.50	.014						82207	82323
		.020						82208	82324
	M10x1.25	.014						82209	82325
		.020						82210	82326
	M14x2.0	.014						82211	82327
		.020						82212	82328



Bevel crimped wheel is best for light work, and jobs requiring superior surface finish.

Brush Dia.	Thread Size	Wire Size	Trim Length	Face MSFS To Ot		Qty	EDP Number
(Inches)		Size	Length	widti	RPM	Qty	Steel
4	5/8-11	.014	3/4	1/2	15,000	5	82213
	1/2-13	.014					82214
	3/8-24	.014					82215
	M10x1.50	.014					82216
	M10x1.25	.014					82217
	M14x2.0	.014					82218

Stainless Steel Wire Brushes



Advance catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



General Information



Adapter Inserts	Qty	EDP Number
Minigrinder Adapter Inser	ts	
5/8-11 UNC to M10x1.25	5	84645
5/8-11 UNC to M10x1.50	5	84646
5/8-11 UNC to 3/8-24	5	84647

High Speed Grinder Reference Chart

For proper power brush selection, the following table may be used to determine the spindle thread and maximum free speed based on the power tool manufacturer and model number. If the make and

model are not listed, please consult the documentation provided with the power tool when purchased, or consult the manufacturer of the tool for additional information.

Manufacturer	Model	Spindle Thread	Model Description	No Load Speed
AEG	WS601	5/8-11	4-1/2" Angle Grinder	10,000
Black & Decker	6246	M10x1.50	4" Angle Grinder	10,000
	2750/27506	5/8-11	4-1/2" Angle Grinder	10,000
	4252	5/8-11	5" Angle Grinder	10,000
Bosch	1347	M14x2.0	4-1/2" Mini Grinder	11,000
	1347A	5/8-11	4-1/2" Mini Grinder	11,000
	1348(E)	M14 x 2.0	5" Mini Grinder (Electronic)	11,000
	1348AE	5/8-11	5" Electronic Mini Grinder	11,000
	7352-111	M14x2.0	4-1/2" Air Mini Grinder	12,000
Hitachi	GIOSDI	M10x1.50	4" Disc Grinder	11,000
	G12SA	5/8-11	4-1/2" Disc Grinder	10,000
	G12SI	5/8-11	4-1/2" Disc Grinder	11,000
	G13SC	5/8-11	5" Disc Grinder	11,000
Ingersoll	AG230P64	3/8-24	4" Air Grinder	12,000
Rand	AG230P1045	5/8-11	4-1/2" Air Grinder	12,000
	AG230P105	5/8-11	5" Air Grinder	12,000
Jepson	4204N	M10x1.50	4" Disc Grinder	12,000
	4145N	5/8-11	4-1/2" Disc Grinder	10,000
	4105	5/8-11	5" Disc Grinder	10,000
Makita	N9501 BZ	M10x1.50	4" Disc Grinder	10,000
	N9514B	M10x1.50	4" Disc Grinder	11,000
	9503BHZ	5/8-11	4-1/2" Disc Grinder	10,000
	9505BHZ, 9005B	5/8-11	5" Disc Grinder	10,000
Metabo	6014	5/8-11	4-1/2" Angle Grinder	10,000
	7010	M14x2.0	4-1/2" Angle Grinder	10,000
	7016	5/8-11	4-1/2" Angle Grinder	1,700-8,500
	10125	5/8-11	5" Angle Grinder	8,500
	9025	5/8-11	5" Angle Grinder	10,000
Milwaukee	11025	5/8-11 1/2-13	4-1/2", 5" Angle Grinder	10,000
Electric	6145, 6140	1/2-13 5/8-11	4-1/2" Hvy Duty Sander/Grinder 4-1/2" Hvy Duty Sander/Grinder	10,000 10,000
Tool	6142(KIT)		5" Hvy Duty Sander/Grinder	
Porter Cable	6141 7405	5/8-11 5/8-11	5" Angle Grinder	10,000 10,000
Ryobi	7405 SG-1000	3/8-11	4" Grinder	11,000
Ryoul	G-1155C	5/8-11	4- drinder 4-1/2" Grinder	11,000
	G-1255	5/8-11	5" Grinder	10,000
Sioux	1240A	M10x1.25	4-1/2" Electric Grinder	11,000
JIOUX	1245	5/8-11	4" Electric Grinder	10,000
	1967	3/8-24	4" Air Grinder	12,000
Skill	9310, 9415	M10x1.50	4-1/2" Disc Grinder	11,000
JKIII	HD9611	5/8-11	4-1/2" Disc Grinder	12,000
	1105011	3/0-11	4-1/2 Disc difficel	12,000



Crimped Wire Brushes - Standard, Coated Cup, and Banded



General purpose for working hard to reach places. For use on portable 1/4" dia. air and electric tools. Used for rubber and plastic flash removal, paint and rust removal, die, mold and tool polishing.

Brush Dia.	Shank Dia.*	Wire Size	Trim Length	Max RPM		EDP N	lumber
(Inches)	Dia.	Size	Length	KFIVI	Qty	Steel	Stainless
1/2	1/4	.006	1	25,000	10	82962	82981
		.008				82963	82982
		.010				82964	82983
		.014				82965	82984
		.020				82966	82985
3/4	1/4	.006	1	22,000	10	82967	82986
		.008				82968	82987
		.010				82969	82988
		.014				82970	82989
		.020				82971	82990
1	1/4	.006	1	20,000	10	82972	82991
		.008				82973	82992
		.010				82974	82993
		.014				82975	82994
		.020				82976	82995



Elastomer sleeve on the metal cup helps protect the part being brushed. Improved performance for mold and die cleaning.

Brush Dia.	Shank Dia.*	Wire Size	Trim	Max RPM	Oty	EDP Number		
(Inches)	Dia."	Size	Length	Krivi	Qty	Steel	Stainless	
1/2	1/4	.006	1	25,000	10	83035	83050	
		.008				83036	83051	
		.010				83037	83052	
		.014				83038	-	
		.020				83039	-	
3/4	1/4	.006	1	22,000	10	83040	83053	
		.008				83041	83054	
		.010				83042	83055	
		.014				83043	-	
		.020				83044	-	
1	1/4	.006	1	20,000	10	83045	83056	
		.008				83046	83057	
		.010				83047	83058	
		.014				83048	-	
		.020				83049	-	



Banding reduces wire filament flare and enhances filament action.

**Trim length is 5/8" with ring, 1" without ring for all Banded Crimped End Brushes.

Brush Dia.	Shank Dia.*	Wire Size	Trim Length	Max RPM		EDP N	lumber
(Inches)	Dia.	Size	Lengui	Krivi	Qty	Steel	Stainless
1/2	1/4	.006	5/8, 1**	15,000	10	83005	83024
		.008				83006	83025
		.010				83007	83026
		.014				83008	-
	.020				83009	-	
3/4 1/	1/4	.006	5/8, 1**	15,000	10	83010	83027
		.008				83011	83028
		.010				83012	83029
		.014				83013	-
		.020				83014	-
1	1/4	.006	5/8, 1**	12,500	10	83015	83030
		.008				83016	83031
		.010				83017	83032
		.014				83018	-
		.020				83019	-



Knot End Brushes



Flared cup style provides best performance and longest brush life.

Brush Shanl Dia. Dia.*		Wire	Trim	MSFS RPM	Qty	Е	DP Numbe	r
(Inches)	Dia.^	Size	Length	KPIVI	[Qty]/	Steel	Stainless	Brass
1/2	1/4	.006	1-1/8	20,000	10	83063	83085	-
		.010				83064	83086	-
		.014				83065	83087	-
3/4 1/4	.006	1-1/8	20,000	10	83070	83090	-	
		.010				83071	83091	-
		.014				83072	83092	-
		.020				83073	83093	-
1	1/4	.006	1-1/8	20,000	10	83077	83096	-
		.010				83078	83097	-
		.014				83079	83098	83104
		.020				83080	83099	83105



Straight cup ideal for reaching into holes and confined areas.

Brush Dia.	Shank Dia.*	Wire Size	Trim	MSFS RPM	Qty	E	DP Numbe	er
(Inches)	Dia."	Size	Length	Krivi	(4.9)/	Steel	Stainless	Brass
1/2	1/4	.006	1-1/8	20,000	10	83123	83145	-
		.010				83124	83146	-
		.014				83125	83147	-
3/4 1/4	1/4	.006	1-1/8	20,000	10	83130	83150	-
		.010				83131	83151	-
		.014				83132	83152	-
		.020				83133	83153	-
1	1/4	.006	1-1/8	20,000	10	83137	83156	-
		.010				83138	83157	-
		.014				83139	83158	-
		.014	1	20,000	10	-	-	83164
		.020				-	-	83165
		.020	1-1/8	20,000	10	83140	83159	-



Coated cup protects and helps prevent damage to workpiece from metal brush components.

Brush	rush Shank Wire Trim MSFS Dia.* Size Length RPM Qty	Oty	EDP Number			
(Inches)	Dia.	Size	Length	IXI IVI	(4.9)	Stainless
1/2	1/4	.006	1-1/8	20,000	10	83175
		.010				83176
		.014				83177
3/4 1/4	.006	1-1/8	20,000	10	83178	
		.010				83179
		.014				83180
		.020				83181
1	1/4	.006	1-1/8	20,000	10	83182
		.010				83183
		.014				83184
		.020				83185

^{*} All ADVANCE end brushes are available in 6 mm shank. Please call for price and delivery.



Specialty End Brushes

Encapsulated Brush Grades

(For complete Encapsulated product information, see page 53.)



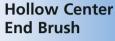
Aggressive enough for most applications. Best grade for general use. Green color.



For higher pressure applications and excessive heat. Black color.



Super aggressive, tough cleaning, with narrow face wheels. Blue color.





Encapsulation provides excellent tip control, reduced flare, and aggressive brushing action.

Brush Dia.	Shank Dia.	Wire Size	Grade	Trim	Max RPM		EDP N	lumber
(Inches)	Dia.	Size		Length	IXI IVI	Qty	Steel	Stainless
1/2	1/4	.006	E3	7/8	18,000	10	83579	-
		.010	E3				83580	83590
		.014	E4				83594	-
		.020	E3				83581	-
3/4	1/4	.006	E3	7/8	15,000	10	83582	-
		.010	E3				83583	83591
		.010	E4				83595	-
1	1/4	.006	E3	7/8	13,000	10	83585	-
		.010	E3				83586	-
		.010	E4				83596	-
		.014	E3				83587	-



Brush Dia.	Shank Dia.	Pilot Wire Trim MSFS Dia. Size Length* RPM Qty	Oty	EDP Number			
(Inches)	Dia.	Dia.	3126	Lengui	IXI IVI	Qty	Stainless
1/2	1/4	3/32	.004	1/8	20,000	10	83187
		1/8					83188
		5/32					83189
		3/16					83190
		1/4					83191

Essential for cleaning rivet holes in air craft and aerospace industries.

*Trim length measured from ring.

Pencil End Brush	

Small brushes designed for cleaning blind holes and small crevices. Ideal for aircraft maintenance.

Brush Dia.	Shank Dia.	Wire Size	PDM —	EDP N	lumber		
(Inches)	Dia.	Size	Length	Krivi	Qty]/	Steel	Stainless
3/16	1/4	.012	3/8	3-3/8	10	82941	82942



Flexible heavy cleaning action. Spring may be trimmed as brush wears. Ideal for cleaning deep cavities, tubing, and more.

Brush Dia.	Shank Dia.	Overall Length			EDP Number	
(Inches)	Dia.	Length	Size	Krivi	Qty]/	Steel
3/8	1/4	6-1/4	.014	1,800	12	82943
1/2	1/4	6-1/4	.014	1,800	12	82944



WARNING: Do not run the coil spring brush free of contact with the work. Insert it into the work to be brushed before turning on power. If run free, the brush may whip, break, and fly off tooling, endangering personnel in the area.



Specialty End Brushes



Conforms to contours of the workpiece providing a light deburring action. Used for cleaning rubber and plastic molds, light removal of flashing, carbon, rust and paint.

Brush Dia.	Stem Dia.*	Wire Size	MSFS Max	Qty	EDP I	Number
(Inches)	Dia.	Size	RPM		Steel	Stainless
1-1/4	1/4	.006	20,000	10	82925	-
		.008			82926	_
1-1/2	1/4	.008	14,000	10	82927	82935
		.020			82928	-
2	1/4	.010	14,000	10	82929	82936
		.014			82930	82937
3	1/4	.006	14,000	10	82931	-
		.008			82932	82938
		.014			82933	82939
		.020			82934	82940
4	1/4	.008	14,000	10	82949	82950



Square-trimmed wire brushes, used for cleaning internal surfaces. Mount in drill press or portable tool.

Square Dia.	Stem Dia.	Wire Size	Square	Square Face Overall MSFS Trim Width Length Max			EDP Number	
(Inches)	Dia.	Size	Length	wiatii	Length	RPM	Qty	Steel
1	1/4	.006	3/8	3/8	3-5/8	4,500	10	82880
1-1/16	1/4	.006	13/32	3/8	3-5/8	4,500	10	82881
1-1/4	1/4	.006	1/2	1/2	3-3/4	4,500	10	82882
1-1/2	1/4	.006	9/16	1/2	4	4,500	10	82883
1-7/8	1/4	.006	13/16	1/2	4-1/8	4,500	10	82884



More aggressive brushing action than crimped wire for faster removal. For deburring, cleaning, rust removal, and weld seam conditioning.

Brush Dia.	Stem Dia.*	Wire Size	Trim Length	Face Width	MSFS Max	/	EDP I	EDP Number	
(Inches)		3126	Length	wiatii	RPM	Qty	Steel	Stainless	
3	3 1/4	.012	3/4	7/16	25,000	10	82915	-	
		.014					82916	82921	
		.020					82917	-	
3-1/4	1/4	.012	3/4	1/2	25,000	10	82945	_	
		.014					82946	82948	
		.020					82947	-	
4	1/4	.012	3/4	5/8	20,000	10	82918	_	
		.014					82919	82922	
		.020					82920	_	

Stainless Steel Wire Brushes



ADVANCE catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



Crimped and Encapsulated Wheels



Crimped brushes provide lighter brushing action and superior finish when cleaning, removing rust and paint, smoothing, descaling, cleaning fettling from cast seams, light deburring.

Brush	Brush Stem Dia. Dia.*		Trim	Face Width	MSFS Max.		ı	EDP Numbe	er
(Inches)	Dia."	Size	Length	wiatri	RPM	Qty	Steel	Stainless	Brass
1-1/2	1/4	.006	7/16	1/4	20,000	10	82890	82905	-
		.008					82891	_	-
		.012					82892	82906	-
2	1/4	.008	1/2	3/8	20,000	10	82893	82907	-
		.012					82894	82908	-
2-1/2	1/4	.008	3/4	1/2	20,000	10	82895	82909	-
		.012					-	82910	-
		.014					82896	_	-
3	1/4	.006	1	5/8	20,000	10	82897	82911	-
		.008					82898	82912	-
		.012					82899	_	_
		.014					82900	82913	82914
		.020					82901	-	-



Encapsulated for maximum brushing action.

Brush Dia.	Stem Dia.*	Wire Size	Grade	Trim Length	Face Width	MSFS Max		EDP Number
(Inches)	Dia.	3126		Length	Width	RPM	Qty	Steel
2	1/4	.010	E3	1/2	1/4	20,000	10	83612
3	1/4	.008	E3	1	1/4	20,000	10	83613
		.012	E3	1	1/4	20,000	10	83614

Crimped Wire Flared Cup
Ī
2

Concave shape provides effective side cleaning action and offers high flexibility to follow contours and intricate surface patterns. Use on inside edges, fillets and grooves without scoring bottom areas. Especially for light deburring, scale and rust removal, weld seam cleaning, etc.

Brush Dia.	Stem Dia.*	Wire Size	Trim	MSFS Max		EDP N	umber
(Inches)	Dia."	Size	Length	RPM	Qty /	Steel	Stainless
1-1/2	1/4	.006	5/16	20,000	10	82850	82870
		.008				82851	-
		.012				82852	82871
2	1/4	.008	7/16	20,000	10	82854	-
		.014				82878	82873
		.020				82879	-
2-1/2	1/4	.006	11/16	20,000	10	82857	-
		.008				82858	-
		.014				82859	82875
		.020				82860	-
3	1/4	.006	7/8	20,000	10	82861	82876
		.008				82862	-
		.014				82863	82877
		.020				82864	-
4	1/4	.008	1-3/8	20,000	10	82866	-
		.014				82867	-



Encapsulated Flared Cup, Circular End, Mounted Cup



Concave shape provides effective side cleaning action without scoring bottom areas. Encapsulation for maximum aggression.

Brush Dia.		Wire Size	Grade	Cup Size	MSFS Max		EDP Number	
(Inches)	Dia.	RPM		Qty /	Steel	Stainless		
1-3/4	1/4	.006	E3	3/4	20,000	10	83598	-
		.010					83599	83608
		.020					83600	-
2	1/4	.006	E3	3/4	17,000	10	83601	-
		.010					83602	83609
2-3/4	1/4	.010	E3	1	14,000	10	83605	83610



Designed for use on easily accessible, level surfaces. For weld and mold cleaning, light deburring, rust, paint and flash removal.

Brush Dia.	Stem Dia.*	Wire Size	Trim Length	MSFS Max	Ottu	EDP N	lumber
(Inches)	Dia.	JIZE	Length	RPM	Qty	Steel	Stainless
1-1/4	1/4	.014	1	13,000	10	82820	-
		.020				82821	-
1-3/4	1/4	.006	11/16	13,000	10	82822	82835
		.012				82823	82836
2	1/4	.008	7/8	13,000	10	82824	82837
		.010				-	82838
		.012				82826	-
2-1/2	1/4	.008	7/8	13,000	10	82828	-
		.012				82830	-



Encapsulated for maximum brushing action.

Brush Dia.	Stem Dia.*	Wire Size	Grade	Trim MSFS Length Max		Qty	EDP Number	
(Inches)	Dia.	Jize		Length	RPM		Steel	Stainless
2-1/2	1/4	.010	E3	5/8	13,000	10	-	83618
		.014					83616	-



Stem Mounted - Wheels and Cups

NEW PRODUCT



Miniature Brushes

The new line of ADVANCE stem-mounted miniature brushes is perfect for precision applications required in many industries including jewelry, electronics and aerospace. A wide selection of filaments includes: carbon steel wire, stainless steel wire 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 suitable for use with flexible shaft tools and straight grinders.



Precision miniature wheel brush in carbon steel, stainless steel, and brass, for cleaning and light deburring.

Brush Dia.	Stem			Qty	E	r		
(Inches)	JIZE	Size	Length	RPM	(49)	Steel	Stainless	Brass
5/8	1/8	.005	1/8	25,000	36	83200	83209	-
3/4	1/8	.003	3/16	25,000	36	83201	-	83216
		.005				83202	83210	-
1	1/8	.003	1/4	25,000	36	83203	83211	83217
		.005				83204	83212	83218
1-1/4	1/8	.005	3/8	25,000	36	83205	-	-
1-1/2	1/8	.005	1/2	18,000	36	83206	-	-
				25,000		-	83213	-



Precision miniature nylon filament wheel brush impregnated with aluminum oxide, for deburring and finishing.

Brush Dia.	Stem Size	Grit Size		EDP Number		
(Inches)	Jize	Size	Length	RPM	Qty/	Aluminum Oxide
3/4	1/8	600	3/16	6,000	36	83221
		1000				83222
1	1/8	600	1/4	6,000	36	83223
		1000	3/16			83224
1-1/4	1/8	600	3/8	6,000	36	83225
		1000				83226
1-1/2	1/8	600	1/2	6,000	36	83227
		1000	3/8			83228



Precision miniature wheel brush in soft and stiff natural bristle for light cleaning, and

polishing. May be used with abrasive or polishing pastes.

Brush Dia.	Stem Size	Trim Length	MSFS Max.	Qty	EDP Number		
(Inches)	Size	Length	RPM		Stiff	Soft	
3/4	1/8	3/16	25,000	36	83231	83232	



Precision miniature cup brush in carbon steel, stainless steel, and brass.

Brush	Stem Size	Wire	Trim	MSFS	Qty	E	EDP Number	
Dia. (Inches)	Size	Size	Length	Max. RPM	<u>[4</u> 3]/	Steel	Stainless	Brass
9/16	1/8	.003	1/4	25,000	36	83235	-	83243
		.005				83236	83240	-



Stem Mounted – Cups and End Brushes



Brush Dia.	Stem Size	Grit Size	Trim Length	MSFS	MSFS Max. Qty	EDP Number
(Inches)	Size	Size	Length			Aluminum Oxide
9/16	1/8	600	1/4	6,000	36	83247

Precision miniature nylon filament cup brush impregnated with aluminum oxide.



Brush Dia.	Stem Size	Trim	MSFS Max.	() t	EDP Number		
(Inches)	Size	Length	RPM	[Qty]	Stiff	Soft	
9/16	1/8	1/4	25,000	36	83250	83252	

Precision miniature cup brush in soft and stiff natural bristle.



Brush	Stem Size	Wire	Trim	MSFS	Oty	EDP Number		
Dia. (Inches)	Size	Size	Length	Max. RPM	Qty]	Steel	Stainless	Brass
3/16	1/8	.003	5/16	25,000	36	83256	83261	83266
1/4	1/8	.005	7/16	25,000	36	83257	83262	83267
5/16	1/8	.005	1/2	25,000	36	83258	83263	_

Precision miniature end brush in carbon steel, stainless steel, and brass.



Precision miniature end brush in aluminum oxide impregnated nylon filament.

Brush Dia.	Stem Size	Grit Size	Trim Length	MSFS Max.	Qty	EDP Number
(Inches)	SIZC		Length	RPM		Aluminum Oxide
3/16	1/8	600	5/16	6,000	36	83270
		1000	1/4			83271
1/4	1/8	600	7/16	6,000	36	83272
		1000	9/16			83273
5/16	1/8	600	1/2	6,000	36	83274
		1000	3/16			83275



Brush Dia.	Stem	Irim Length	MSFS Max.	Qty	EDP Number		
(Inches)	JIZE	Length	RPM	(यस)	Stiff	Soft	
3/16	1/8	5/16	25,000	36	83278	83281	
1/4	1/8	7/16	25,000	36	83279	-	
5/16	1/8	1/2	25,000	36	83280	_	

Precision miniature end brush in soft and stiff natural bristle.



SpyraKleen™ Brushes



Single spiral, round-trim, light duty power tube brush for round, eccentric and rectangular holes. Achieves optimal performance when fully chucked on drill presses and collet-equipped portable tools. Flexible brushing action conforms well to threads and contours. Features a stainless steel stem for strength and stiffness.

Brush Dia.	Stem Dia.	Wire Size	Brush Part	Overall Length		E	DP Numbe	er
(Inches)	Dia.	Size	Length	Length	Qty	Steel	Stainless	Brass
1/4	1/8	.004	1	3-1/2	36	83350	83386	83411
		.005				83351	83387	-
5/16	1/8	.005	1	3-1/2	36	83352	-	-
3/8	1/8	.004	1	3-1/2	36	83353	83388	83412
		.005				83354	83389	-
		.006				83355	-	-
		.008				83356	83390	-
7/16	1/8	.005	1	3-1/2	36	83357	83391	-
1/2	5/32	.005	1	3-1/2	36	83358	83392	83413
9/16	5/32	.005	1	3-1/2	36	83359	83393	-
		.010				-	83394	-
5/8	5/32	.005	1	3-1/2	36	83360	83395	83414
		.008				83361	-	-
11/16	5/32	.005	1	3-1/2	36	83362	83396	-
3/4	1/4	.005	1	3-1/2	36	83363	83397	-
		.006				83364	83398	83415
		.008				83365	-	-
13/16	1/4	.005	1	3-1/2	36	83366	83399	-
7/8	1/4	.005	1	3-1/2	36	83367	83400	-
		.006				83368	83401	83416
		.008				83369	-	-
15/16	1/4	.005	1	3-1/2	36	83370	-	-
1	1/4	.005	1	3-1/2	36	83371	83402	-
		.008				83372	83403	83417
1-1/8	1/4	.005	1	3-1/2	36	83373	83404	-
		.008				83374	83405	83418
1-1/4	1/4	.005	1	3-1/2	36	83375	83406	-
		.008				83376	83407	-
1-1/2	1/4	.008	1	3-1/2	36	83377	-	83419
		.010				83378	-	-
2-1/4	1/4	.008	1	3-1/2	36	83379	-	-

Power Tube Brush Safety



Improper use of internal cleaning or flue-type power brushes is hazardous. Consult your local factory representative for recommended mounting, operating, and M.S.F.S. instructions for your specific application and/or requirement.

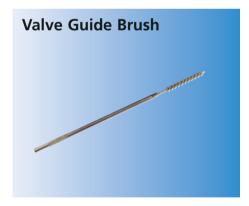


Tube and Valve Internal Brushes



Double stem, double spiral power tube brushes for heavy-duty cleaning and deburring of I.D.'s: Threads, pipes, holes, keyways, etc. Heavy-duty construction offers long service life and most effective brushing action. Achieves optimal performance when fully chucked on drill presses and collet-equipped portable tools.

Brush Dia.	Stem Dia.	Wire Size	Brush Part	Overall Length		E	EDP Numbe	er
(Inches)	Dia.	Size	Length	Length	Qty	Steel	Stainless	Brass
1/4	1/8	.005	2	6	36	-	-	83455
		.006				83420	-	-
3/8	1/8	.003	2	6	36	83421	-	-
		.005				-	-	83456
		.006				83422	-	-
1/2	5/32	.004	2	6	36	83423	83440	-
		.005				-	-	83457
		.006				83424	83441	83458
		.010				83425	_	-
5/8	5/32	.005	2	5	36	83426	83442	83459
		.008				83427	83443	83460
		.010				83428	-	_
3/4	1/4	.006	2-1/2	5-1/2	36	83430	83445	83461
		.008				83431	-	-
		.010				83432	83446	_
7/8	1/4	.006	2-1/2	5-1/2	36	83434	83447	83462
		.010				83435	83448	_
1	1/4	.006	2-1/2	5-1/2	36	83436	83449	83463
		.010				83437	83450	_
1-1/4	1/4	.006	2-1/2	5-1/2	36	83438	83451	-
		.010				83439	83452	-
1-1/2	1/4	.014	2-1/2	5-1/2	36	-	83453	-



Single stem, single spiral tube brushes built to precision accuracy. Designed for use on drill presses and collet-equipped portable tools. Equipped with a knurled handle for hand use.

Brush Dia.	Brush Length	Wire Size	Overall Length	Qty	EDP Number
(Inches)	Length	Size	Length	<u>[4</u> (<i>y</i>]/	Steel
1/4	2	.010	10	10	83465
5/16	2	.010	10	10	83466
11/32	2	.010	10	10	83467
3/8	2	.010	10	10	83468
7/16	2	.010	10	10	83469
1/2	2	.010	10	10	83470



SydKleen™ Internal Brush and Holder



Rectangular internal cleaning brush offering most effective side-action brushing.
Effective for cleaning odd-shaped holes, hard-to-reach interior surfaces, cleaning and deburring threads and internal bores.
Removes chips, scale, dirt and burrs. Surface preparation tool for welding, soldering, or brazing.

Brush Dia.	Stem Dia.	Wire Size	Brush Part	Overall Length		EDP N	umber
(Inches)	Dia.	Size	Length	Length	[Qty]	Steel	Stainless
1/4	3/32	.003	9/16	2-1/8	36	83300	83315
		.005				83301	83316
5/16	3/32	.003	9/16	2-1/8	36	83302	-
3/8	3/32	.003	9/16	2-1/8	36	83303	83317
		.005				83304	83318
		.008				83305	-
	1/8	.003	5/8	2-1/4	36	83325	-
7/16	3/32	.003	9/16	2-1/8	36	83306	-
		.005				83307	-
1/2	3/32	.003	5/8	2-1/4	36	83308	-
		.005				83309	83319
		.008				83310	-
5/8	1/8	.005	5/8	2-1/4	36	83326	83340
3/4	1/8	.003	5/8	2-1/4	36	83327	-
		.005				83328	83341
		.008				83329	-
7/8	1/8	.005	5/8	2-1/4	36	83330	83342
1	1/8	.005	5/8	2-1/4	36	83331	83343
		.008				83332	-
1-1/8	1/8	.005	5/8	2-1/4	36	83333	-
1-1/4	1/8	.005	5/8	2-1/4	36	83334	83344
		.008				83335	-



For use with $\mathsf{SydKleen}^{\scriptscriptstyle\mathsf{TM}}$ brushes.

Stem Dia.	Shank Dia.	Holder Dia.	Overall Length	Oty	EDP Number
(Inches)	Dia.	Dia.	Length	[Qty]/	Steel
3/32	1/4	1/4	3-3/8	1	83348
1/8	1/4	3/8	3-3/8	1	83349

Stainless Steel Wire Brushes



Advance catalog items are produced using Type 302 Stainless Steel wire. Additional types are available as special production. Products are clearly marked "SS" or "Stainless" directly on the brush where possible. Most Stainless Steel power brushes also feature a black oxide coat for easy visual identification.



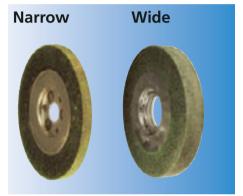
Narrow, Medium and Wide Face Standard Duty Wheels

Encapsulated (ECAP®) Brush Grades **Encapsulation Guide** Encapsulated products (ECAP®) are composed of a synthetic compound which is molded into the finished wire wheel and cured to a specified hardness, starting with standard grade E3. Harder grades are available as E4 and E5. Some of the built-in features include: ■ Increases standard wheel performance by 25% or more. ■ ECAP® brush life is up to 100% longer for equivalent service.

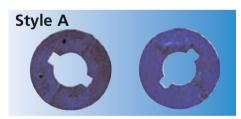
■ ECAP® 's more consistent brushing is due to its short trim urethane material. ■ Encapsulation material reduces long wire breakage and early failure of

the working filaments, offering much greater operator safety.

Grade	Description
ES	Aggressive enough for most applications. Best grade for general use. Green color.
E 4	For higher pressure applications and excessive heat. Black color.
E5	Super aggressive, tough cleaning, with narrow face wheels. Blue color.



Encapsulation material gradually wears away to consistently maintain a short trim length for more aggressive brushing and long service life. Elastomer provides precision control of contact area on workpiece.



Keyed Arbor Adapters* - Style A have builtin keyways to reduce all narrow face brushes manufactured to 1-1/4" arbor hole with dual keyways to common arbor hole sizes.

Style B	

2" Keyed Arbor Adapters** - Style B have built-in keyways to reduce all medium face and wide face brushes manufactured to 2" arbor hole with dual keyways to common arbor hole sizes.

Brush Dia.	Arbor Hole	Wire Size	ECAP Grade	Trim Length	Face Width	MSFS RPM		EDP Number	
(Inches)		3126	Grade	Length	widti	IXF IVI	Qty	Steel	
Narrow Fa	Narrow Face								
4	5/8-1/2	.010	E3	3/4	13/32	6,000	1	83526	
		.014						83527	
6	1-1/4*	.006	E3	1-1/8	7/16	6,000	1	83528	
		.008						83529	
		.010						83531	
		.014						83533	
	5/8-1/2	.010	E3	1-1/8	7/16	6,000	1	83530	
		.014						83532	
8	1-1/4*	.008	E3	1-1/2	15/32	6,000	1	83534	
		.010						83535	
Medium F	ace								
6	2	.012	E3	1-1/8	13/16	4,500	1	83538	
8	2**	.012	E3	1-1/2	1	4,500	1	83540	
10	2**	.012	E3	1-7/8	1	3,600	1	83542	
12	2**	.012	E3	2-7/8	1-5/16	3,000	1	83543	
Wide Face	9								
4-1/4	2	.012	E3	7/8	1	6,000	1	83544	
6	2	.012	E3	1-1/8	1-3/32	6,000	1	83546	

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number
Adapte	r Style A		
1/2	1/8 x 3/32 (2)	1	84605
5/8	3/16 x 1/8 (2)	1	84606
3/4	3/16 x 1/8 (2)	1	84607
7/8	3/16 x 1/8 (2)	1	84608
1	1/4 x 5/32 (2)	1	84609
Adapte	r Style B		
1/2	1/8 x 3/32 (2)	1	84620
5/8	3/16 x 1/8 (2)	1	84621
3/4	3/16 x 1/8 (2)	1	84622
7/8	3/16 x 1/8 (2)	1	84623
1	1/4 x 5/32 (2)	1	84624

1/4 x 5/32 (2)

1-1/4

Wheel Arbor Hole	Shaft Size	Qty	EDP Number
Adapter S	tyle C – 2" F	Round Arb	or
2	1/2	1	84628
2	5/8	1	84629
2	3/4	1	84630
2	7/8	1	84631
2	1	1	84632
2	1-1/4	1	84633
2	1-1/2	1	84634

Style C - 2" Round Arbor Adapters - reduce all adapter style brushes manufactured to 2" round arbor hole to common arbor hole sizes.



Tube Center and Threaded Wheels



Encapsulated small-diameter wheel brush offers aggressive brushing performance, longer service life, and controlled surface contact area.

See drive arbors and adapters on page 25.

Brush Dia.	Arbor Hole	Wire Size	ECAP Grade	Trim	Face	MSFS		EDP I	EDP Number	
(Inches)	поје	Size	Grade	Length	Width	Max RPM	Qty	Steel	Stainless	
Crimped V	rimped Wire									
1-1/4	3/8	.008	E3	1/4	1/4	20,000	10	83481	-	
		.014						83482	-	
1-1/2	3/8	.008	E3	3/8	1/4	20,000	10	83486	-	
		.012						83488	-	
		.014						83489	-	
2	1/2	.006	E3	1/2	1/4	20,000	10	83490	-	
		.008						83491	-	
		.012						83493	-	
		.014						83494	-	
2-1/2	1/2	.010	E3	3/4	1/4	20,000	10	83495	-	
	5/8	.014	E3	11/16	1/4	20,000	10	83497	-	
3	1/2	.008	E3	1	1/4	20,000	10	83499	-	
		.012						83500	-	
		.014						83501	83505	
	5/8	.014	E3	15/16	1/4	20,000	10	83503	-	



Ideal for large diameter pipe construction. Extra heavy duty E5 grade resists deflection, fracture and crumbling, providing a shorter, more aggressive trim length.

Brush	Thread	Wire	ECAP	Trim	Face	MSFS	Othy	EDP Number	
Dia. (Inches)	Size	Size	Grade	Length	Width	Max RPM	Qty	Steel	Stainless
Knot Wire	e								
4	5/8-11	.020	E4	7/8	3/16	9,000	10	83511	-
	1/2-13							83512	-
6-7/8	5/8-11	.020	E4	1-9/16	3/16	9,000	10	83513	-
	7/8		E4					83514	-
Crimped \	<i>N</i> ire								
6	5/8-11	.014	E4	1-1/16	3/16	9,000	10	83507	-
	7/8							83508	-
7	5/8-11	.014	E4	1-9/16	3/16	9,000	10	83509	83520
			E5					83517	-
	7/8	.014	E4	1-9/16	3/16	9,000	10	83510	83521
			E5					83518	-



Cups



Controlled area cleaning. Long life,
increased aggressiveness. Uniform brushing
action. Reduced wire breakage.

Brush Dia.	Thread	Size Size Grade Length Max Oty	Otty	EDP Number			
(Inches)	Size	Size	Grade	Length	RPM	[Qty]/	Steel
3-1/2	5/8-11	.014	E3	7/8	12,000	1	83559
	M10x1.25						83561
	M14x2.0						83562
	3/8-24						83563



Adapter Inserts	Qty	EDP Number
5/8-11 UNC to M10x1.25	5	84645
5/8-11 UNC to M10x1.5	5	84646
5/8-11 UNC to 3/8-24	5	84647



Encapsulated cups offer more productive cleaning action due to the short trim effect of encapsulation. Used for removing weld slag and scale in pipeline fabrication.

Brush Dia.	Thread Size	Wire Size	Size Grade Length Max	MSFS Max	Qty	EDP Number	
(Inches)	5.20	Size	Ciuuc	Length	RPM	Qty	Steel
4	5/8-11	.020	E3	1-1/8	7,000	1	83564
			E4				83570
6	5/8-11	.020	E3	1-1/4	6,000	1	83566
			E4				83571
			E5				83574



Shaft Mounted, Tube and End Brushes



Wheels fit popular grinders for more productive groove cleaning. Flared cups feature concave shape for effective side cleaning action without scoring bottom areas. Encapsulation provides maximum brush aggression.

Brush Dia.	Shank Dia.	Wire Size	ECAP Grade	Trim Length	Face Width	MSFS Max		EDP Number	
(Inches)	Dia.	Size	Graue	Length	wiatri	RPM	Qty	Steel	
Shaft Mo	unted Wh	eels							
2	1/4	.012	E3	1/2	1/4	20,000	10	83612	
3	1/4	.008	E3	1	1/4	20,000	10	83613	
		.012						83614	

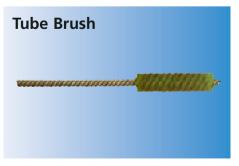
Brush	Shank	Wire	ECAP	Cup	MSFS		EDP Number	
Dia. (Inches)	Dia. Size Grade Size Max RPM	Qty]/	Steel	Stainless				
Shaft Mo	unted Cup	os						
2-1/2	1/4	.010	E3	5/8	4,500	10	-	83637
		.014					83635	-

Brush	rush Shank Dia. Dia.	Wire Size	ECAP Grade	Cup Size	MSFS Max	Qty	EDP Number	
(Inches)	Dia.	Size	Grade	Size	RPM	Qty]/	Steel	Stainless
Shaft Mo	unted Fla	red Cups						
1-3/4	1/4	.006	E3	3/4	25,000	10	83598	_
		.010					83599	83608
		.020					83600	-
2	1/4	.006	E3	3/4	20,000	10	83601	-
		.010					83602	83609
2-3/4	1/4	.010	E3	1	15,000	10	83605	83610



Encapsulation provides excellent tip control, reduced flare, and aggressive brushing action.

Brush Shank Dia. Dia.	Wire Size	ECAP Trim Grade Length		Max RPM		EDP Number		
(Inches)	Dia.	Size	Graue	Length	KFIVI	Qty	Steel	Stainless
1/2	1/4	.006	E3	7/8	18,000	10	83579	-
		.010					83580	83590
		.014	E4				83594	-
		.020	E3				83581	-
3/4	1/4	.006	E3	7/8	15,000	10	83582	-
		.010					83583	83591
		.010	E4				83595	-
1	1/4	.006	E3	7/8	13,000	10	83585	-
		.010					83586	-
		.010	E4				83596	-
		.014	E3				83587	-

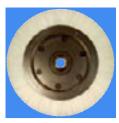


Encapsulated tube brush provides maximum service life and aggressive internal brushing action.

Brush Dia.	Stem Dia.	Wire Size	ECAP Grade	Brush Length	Overall Length	Qty	EDP Number	
(Inches)	Dia.	3126	Grade	Length	Length		Steel	Stainless
1/2	5/32	.006	E3	2	5	10	83621	-
5/8	7/32	.010	E3	2	5	10	83622	83627
3/4	1/4	.010	E3	2-1/2	5	10	83623	83628
7/8	1/4	.010	E3	2-1/2	5	10	83624	-
1	1/4	.010	E3	2-1/2	5	10	83625	-









Abrasive Filament and Non-Wire Products





M-Brad Abrasive Filament Products – Technical Information



M-Brad Product – Features and Benefits

M-Brad abrasive filament brushes combine the flexibility of wire brushes with the cutting action of coated abrasive cloth or other finishing products such as greaseless compounds, setup wheels, honing stones, files, steel wool, abrasive belts, fiber wheels, abrasive flap wheels and non-woven abrasive products. M-Brad is a nylon monofilament that evenly encapsulates abrasive grit particles. Filaments flex to all angles, conforming to the workpiece as it is conditioned. The flexibilty of strands flowing over, around and

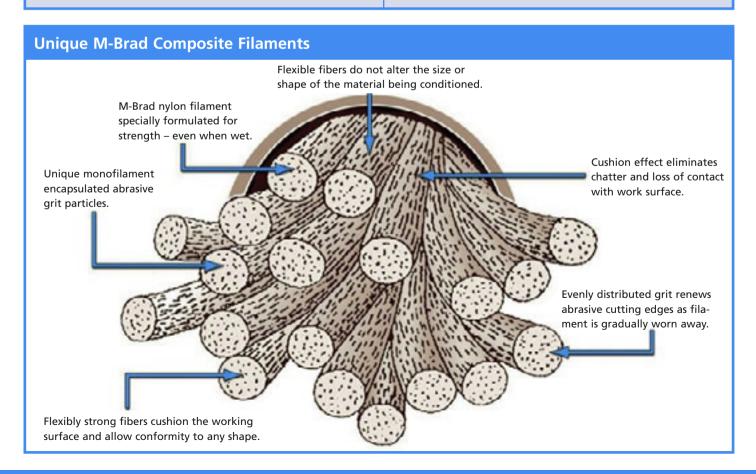
into contours makes it uniquely effective. Consistent, gradual cutting action lets you precisely control the degree of surface conditioning. You get the exact finish you want – from cosmetic surface preparation on wood or soft aluminum to edge-blending materials as tough as titanium. And, M-Brad won't degrade the dimensions of the workpiece, which reduces scrap and fill welding. You get blend and finish corner radiuses with even, highly-controlled abrading, a true radius.

M-Brad Advantages - Quality

- Predictable surface abrading action with exceptional control.
- Conforms to irregular surfaces.
- Works without changing basic dimensions.
- Microscopic parallel surface etching action relieves tensile stress.
- Increases effective surface area for improved coatability and mechanical bonding.
- Uniform distribution of abrasive grit in each filament ensures consistent finish.

M-Brad Advantages - Durability

- Longer life than non-woven synthetic abrasive products.
- Light work pressure for reduced operator fatigue and longer brush life.
- Will not tear rides over projections.
- No dressing required in normal use.
- Works without compounds; No cleaning required.





M-Brad Abrasive Filament Products – Technical Information

Selection Criteria

The criteria for selecting grit and filament size depends on what action and finish you desire. For a finer finish, use a smaller grit size - but remember, with smaller grit sizes, it will take longer to complete the work.

Suggested method: start by running .040/120 grit silicon carbide at the recommended speed with minimum pressure. If the final surface finish is not sufficiently fine, adjust to a smaller grit size to give you the micro-finish you require.

Performance Dynamic Variables for Optimal Brushing Performance

Variable	Increase	Decrease
Diameter	■ Increasing outside diameter at a constant RPM increases surface speed: SFPM (Surface Feet Per Minute). Increasing surface speed increases work accomplished.	 Assuming constant RPM, a decrease in tool diameter decreases surface speed a solution for reducing heat and smearing problems.
RPM	■ Increasing RPM at a constant outside diameter increases surface speed.	 Assuming same diameter brush, decreasing RPM decreases surface speed - another solution for reducing heat and smearing problems.
Trim Length	■ Increasing trim length allows the filament to be more flexible, and to conform more readily to irregular surfaces.	■ Decreasing trim length stiffens filament action, thereby increasing work accomplished.
Filament Size	■ Increasing filament size provides faster cutting action and thereby increases work accomplished. CAUTION: Coarser filament/grit sizes work faster than finer filament/grit sizes, with faster wear.	Decreasing filament diameter will provide superior surface finish and maximize tool life. For best results, choose mini- mum diameter, and increase as needed.
Grit Size	■ Increasing grit size of provides faster cutting action and thereby increases work accomplished. CAUTION: Coarser filament/grit sizes work faster than finer filament/grit sizes, with faster wear.	Decreasing filament size will provide superior surface finish and maximize tool life. For best results, choose mini- mum grit size, and increase as needed.
Density	■ Increasing filament density provides more filament to do work, thereby increasing work accomplished.	■ Decreasing filament density provides greater brush flexibility; leaving more room for individual filaments to conform to irregular workpieces.

If brushing action is inadequate try one of our recommended suggestions. Try one at a time for best troubleshooting. Then try several at once, if none individually make a difference.

Recommended RPM for M-Brad Product Longevity (Dry Applications)

Wheel Size Outside Diameter (Inches)	Maximum Speed RPM
3	3200
4	2400
6	1600
8	1200
10	950
12	800
14	700

Surface Speed in excess of 2500 feet per minute may produce a condition known as "nylon smear" and should be avoided.
Coolants and lubrication may allow the use of somewhat higher speeds. Listed above are the maximum recommended operating speeds without the use of coolants or lubrication.



M-BRAD Wheels



For deburring, edge radiusing, light cleaning, and polishing.



2" Keyed Arbor Adapters** - Style B have built-in keyways to reduce all medium face and wide face brushes manufactured to 2" arbor hole with dual keyways to common arbor hole sizes.

(Note: Tabs must be removed for use on 6" and 7" diameter brushes, or order Style C (below), without keyways).

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number
1/2	1/8 x 3/32 (2)	1	84620
5/8	3/16 x 1/8 (2)	1	84621
3/4	3/16 x 1/8 (2)	1	84622
7/8	3/16 x 1/8 (2)	1	84623
1	1/4 x 5/32 (2)	1	84624
1-1/4	1/4 x 5/32 (2)	1	84625

Style C – 2" Round Arbor Adapters* - reduce all adapter style brushes manufactured to 2" round arbor hole to common arbor hole sizes.

Wheel Arbor Hole	Shaft Size	Qty	EDP Number
2	1/2	1	84628
2	5/8	1	84629
2	3/4	1	84630
2	7/8	1	84631
2	1	1	84632
2	1-1/4	1	84633
2	1-1/2	1	84634

Brush Dia.	Arbor	SiC Fil	ament*	Trim	Face Width	MSFS		EDP
(Inches)	Hole	Dia.	Grit	Length	wiath	Max RPM	Qty	Number
Narrow F	ace							
3	3 1/2-3/8	.040	80	3/4	7/16	10,000	2	83670
		.035	180					83671
		.022	320					83672
4	1/2-3/8	.040	80	3/4	13/32	12,500	2	83673
		.035	180					83674
		.022	320					83675
	5/8-1/2	.040	80	3/4	13/32	12,500	2	83680
		.040	120					83681
		.035	180					83682
		.022	320					83683
Wide Fac	е							
3	5/8	.040	80	5/8	7/8	5,000	1	83689
		.040	120					83690
		.035	180					83691
		.022	320					83692
4	5/8	.040	80	7/8	3/4	12,000	1	83693
		.040	120					83694
		.035	180					83695
		.022	320					83696
6	2*	.040	80	1-1/8	7/8	6,000	1	83699
		.040	120					83700
		.035	180					83701
		.022	320					83702
8	2**	.040	80	1-1/2	1	4,500	1	83703
	with	.040	120					83704
	keyways	.035	180					83705
		.022	320					83706
10	2**	.040	80	1-7/8	1	3,600	1	83707
	with	.040	120					83708
	keyways	.035	180					83709
		.022	320					83710
12	2**	.040	80	2-7/8	1	3,000	1	83711
	with	.040	120					83712
	keyways	.035	180					83713
		.022	320					83714
14	2**	.040	80	2-5/8	1	2,400	1	83715
	with	.040	120					83716
	keyways	.035	180					83717
		.022	320					83718

- * 2" round Arbor. Use with Adapter Style "C."
- ** 2" Arbor Hole with 1/2 x 1/4 Keyways (2).

M-BRAD Operating Speeds

The M.S.F.S. (Maximum Safe Free Speed) listed in the tables reflect the MAXIMUM, not the OPTIMUM operating speed for the brush. Running brushes at this speed will result in premature brush wear and nylon smearing.

Please consult the "Recommended RPM" table on page 59 of this catalog to select the proper operating speed based on your application.



M-Brad T-C Wheels, and M-Brad Cup Brushes



For use as a high-speed brush in small
confined areas. Recommended operating
speed of 5,000 RPM or less.
See drive arbors and adapters on page 25.

Brush Arbor Dia. Hole	SiC Filament		Trim Length	Face Width	MSFS Max	Qty	EDP Number	
(Inches)		Dia.	Grit			RPM	Qty	
1-1/2	1/2	.035	180	7/16	3/8	10,000	10	83782
2	1/2	.040	120	1	5/8	10,000	10	83784
		.022	320					83785
		.018	500					83786
2-1/2	5/8	.022	320	11-16	3/8	10,000	10	83792
3	1/2	.040	120	15/16	5/8	10,000	10	83793
		.035	180					83794
		.022	320					83795



Designed for use on hand-held right-angle tools or stationary machine spindles. Ideal for flat surfaces with numerous holes and low projections. Cup brushes are especially effective on aluminum, cast iron, brass, copper and hardened steels.

Brush Dia.	Arbor Hole	SiC Fil	ament*	Trim Length	MSFS Max		EDP Number
(Inches)	noie	Dia.	Grit	Length	RPM	Qty /	Number
3-1/2	5/8-11	.040	120	1-1/2	12,000	1	83810
		.035	180				83811
		.022	320				83812
4	5/8-11	.040	80	1-1/2	6,000	1	83813
		.040	120				83814
		.035	180				83815
		.030	240				83816
		.022	320				83817
6	5/8-11	.040	80	1-1/2	5,000	1	83821
		.040	120				83822
		.035	180				83823
		.030	240				83824
		.022	320				83825

Also available with bridle - please contact your Advance support technician for information



Brush Stem Dia. Dia.		SiC File	ament*	Trim Length	MSFS Max	Qty	EDP Number
(Inches)	Diai	Dia.	Grit	Length	RPM	Qty/	rtumber
2-3/4	1/4	.040	120	1-1/4	5,000	1	83829
		.035	180				83830
		.022	320				83831
3	1/4	.035	180	1	5,000	1	83832

^{*} All catalog items are Silicon Carbide (SiC) filament. Aluminum Oxide is available by special order.



M-Brad Composite Disc Brushes

New! - ADVANCE Disc Brushes

Our new disc brushes feature M-BRAD nylon abrasive filaments in a variety of brush and grit sizes. Disc brushes are ideal for use in a variety of industries, including automotive, aerospace/aircraft, and woodworking.

Disc brushes are available in round and rectangular M-BRAD filament, as well as in banded versions to reduce filament flare during use. All disc brushes must be used in conjunction with disc brush drive arbors, shown below.

Excellent for...

- Deburring of extrusions, tubing, gears, die cast parts, aluminum wheels, etc.
- Blending tool marks and finishing of machined surfaces
- Precision edge radiusing of gear teeth, clutch plates, and other metal edges
- Ideal for use with custom-designed machines or CNC machinery



Arbor Size (Inches)	For Brush Dia.	Inside Dia.	Drive Hole	Bolt Circle	Qty	EDP Number
Disc Brush	Drive Ar	bors				
3	3-4	7/8	1/4 (2)	1.25	1	83978
5	5-6	7/8	1/4 (2)	1.25	1	83979
7	7-8	7/8	1/4 (3)	3	1	83980
9	9-10	7/8	1/4 (3)	3	1	83981



Brush	Arbor	Trim	MSFS			SiC Filament*			
Dia. (Inches)	Hole	Length	Max. RPM	Qty	.040 Dia. 80 Grit	.040 Dia. 120 Grit	.022 Dia. 320 Grit		
High Density - Round Filament									
3	7/8	1	10,000	1	83835	83836	83838		
4	7/8	1	10,000	1	83843	83844	83846		
6	7/8	1	6,000	1	83851	83852	83854		
8	7/8	1	2,000	1	83858	83859	83861		
9	7/8	1	2,000	1	83863	83864	83865		
High Den	High Density - Round Filament Banded								
3	7/8	1	10,000	1	83880	83881	83883		
4	7/8	1	10,000	1	83888	83889	83891		



Brush Dia. (Inches)	Arbor Hole	Trim Length	MSFS Max. RPM	Qty	SiC Filament* .045x.090 Dia. 80 Grit					
High Den	High Density - Rectangular Filament									
3	7/8	1	6,000	1	83899					
4	7/8	1	6,000	1	83903					
6	7/8	1	6,000	1	83909					
8	7/8	1	2,000	1	83914					
9	7/8	1	2,000	1	83917					
High Den	High Density - Rectangular Filament Banded									
3	7/8	1	6,000	1	83929					
4	7/8	1	6,000	1	83933					

^{*} All catalog items are Silicon Carbide (SiC) filament. Aluminum Oxide is available by special order.



M-Brad Disc and End Brushes



Brush	Arbor	Trim	MSFS		SiC Filament*					
Dia. (Inches)	Hole	Length	Max. RPM	Qty	.040 Dia. 80 Grit	.040 Dia. 120 Grit	.035 Dia. 180 Grit	.022 Dia. 320 Grit		
V-Tuft Ro	und Filam	ent								
3	7/8	1-1/2	6,000	1	83941	83942	83943	83944		
4	7/8	1-1/2	6,000	1	83945	83946	83947	83948		
6	7/8	1-1/2	6,000	1	83949	83950	83951	83952		
8	7/8	1-1/2	2,000	1	83953	83954	83955	83956		
10	7/8	1-1/2	2,000	1	83957	83958	83959	83960		



Brush	Arbor	Trim	MSFS	\Rightarrow	SiC Filament*				
Dia. (Inches)	Hole	Length	Max. RPM	Qty	.040 x .90 Dia. 80 Grit	.040 x .90 Dia. 120 Grit			
V-Tuft Red	tangular	Filament							
3	7/8	1-1/2	6,000	1	83966	83967			
4	7/8	1-1/2	6,000	1	83968	83969			
6	7/8	1-1/2	2,000	1	83970	83971			
8	7/8	1-1/2	2,000	1	83972	83973			
10	7/8	1-1/2	2,000	1	83974	83975			



End brushes eliminate secondary burrs left by chamfer drills or cutting tools. Use for cleaning and deburring bottoms and insides of mold cavities, bore holes and irregular small areas.

Brush Dia.	Shank Dia.		SiC Filament*		MSFS Max	Qty	EDP Number
(Inches)		Dia.	Grit		RPM	ر ا	
	nd Brush						
1/2	1/4	.040	120	1	20,000	10	83986
		.035	180				83987
		.022	320				83988
3/4	1/4	.040	120	1	20,000	10	83989
		.035	180				83990
		.022	320				83991
1	1/4	.040	120	1	20,000	10	83992
		.035	180				83993
		.022	320				83994
M-BRAD E	nd Brush	es - Bridled					
1/2	1/4	.040	120	3/8	20,000	10	83996
		.035	180				83997
		.022	320				83998
3/4	1/4	.040	120	3/8	20,000	10	84000
		.035	180				84001
		.022	320				84002
1	1/4	.040	120	3/8	20,000	10	84004
		.035	180				84005
		.022	320				84006

^{*} All catalog items are Silicon Carbide (SiC) filament. Aluminum Oxide is available by special order.



M-Brad Power Tube Brushes



Cutting action is non-destructive to the part and will not alter bore dimensions or disturb delicate surface finishes. Suitable for conditioning internal bore holes or tubes as well as cleaning threads and burrs at crosshole intersections. Side action removes crossholes sharp edges and corners, as well as slivers produced when drilling close-tolerance hard metallic and non-metallic parts.

Brush	Brush Part	SiC Fila	ament*	Stem	Overall		EDP
Dia. (Inches)	Length	Dia.	Grit	Dia.	Length	Qty /	Number
1/4	2	.022	320	5/32	5	36	84011
5/16	2	.022	320	5/32	5	36	84012
3/8	2	.022	320	5/32	5	36	84013
7/16	2	.022	320	5/32	5	36	84014
1/2	2	.022	320	3/16	5	36	84018
5/8	2	.022	320	7/32	5	36	84022
11/16	2	.022	320	7/32	5	36	84023
3/4	2-1/2	.040	80	1/4	5-1/2	36	84024
		.040	120				84025
		.035	180				84026
		.022	320				84027
13/16	2-1/2	.040	80	1/4	5-1/2	36	84028
		.040	120				84029
		.035	180				84030
		.022	320				84031
7/8	2-1/2	.040	80	1/4	5-1/2	36	84032
		.040	120				84033
		.035	180				84034
		.022	320				84035
15/16	2-1/2	.040	80	1/4	5-1/2	36	84036
		.040	120				84037
		.035	180				84038
		.022	320				84039
1	2-1/2	.040	80	1/4	5-1/2	36	84040
		.040	120				84041
		.035	180				84042
		.022	320				84043
1-1/8	2-1/2	.040	80	1/4	5-1/2	36	84044
		.040	120				84045
		.035	180				84047
		.022	320				84048
1-1/4	2-1/2	.040	80	1/4	5-1/2	36	84049
		.040	120				84050
		.035	180				84052
		.022	320				84053
1-1/2	2-1/2	.040	80	1/4	5-1/2	36	84054
		.040	120				84055
		.035	180				84056
		.022	320				84057
1-3/4	2-1/2	.040	80	1/4	5-1/2	36	84059
		.040	120				84060
		.035	180				84061
		.022	320				84062
2	2-1/2	.040	80	1/4	5-1/2	36	84063
		.040	120				84064
		.035	180				84065
		.022	320				84066

^{*} All catalog items are Silicon Carbide (SiC) filament. Aluminum Oxide is available by special order.



Non-Wire Pencil End Brushes and Microabrasive Brushes



Brush Dia.	Shank Dia.	SiC Fila	SiC Filament*		Overall Length	Qty	EDP Number
(Inches)		Dia.	Grit				
3/16	1/4	.040	120	3/8	3-3/8	12	84007
		.022	320				84008
		.018	500				84009

Small brushes designed for cleaning blind holes and small crevices. Ideal for aircraft maintenance.



Effective cleaning action removes sharp cross-hole edges, metal sliver residues and sharp corners that result from drilling close-tolerance hard metallic and non-metallic parts. Cleaning and very light deburring will not alter critical dimensions or hole geometry.

Brush Dia.	Brush Part	Stem Dia.	For	For Hole Diameters				EDP Number
(Inches)	Length	Dia.	Inches	Decimal	MM	Length	Qty]	Number
Silicate Fi	lament							
.030	1/2	.015	1/32	0.031	0.787	4	36	84071
.050	1/2	.022	3/64	0.047	1.191	4	36	84072
.075	3/4	.033	1/16	0.063	1.588	4	36	84073
.090	3/4	.041	5/64	0.078	1.984	4	36	84074
.105	1	.041	3/32	0.094	2.381	4	36	84075
.125	1	.064	7/64	0.109	2.778	4	36	84076
.135	1	.075	1/8	0.125	3.175	4	36	84077

Brush Dia.	Brush Part	Stem Dia.	Fo	For Hole Diameters			Qty	EDP Number
(Inches)	Length	Dia.	Inches	Decimal	MM	Length	Qty	Number
600 Grit A	luminum	Oxide F	ilament					
.165	1	.087	5/32	0.156	3.962	5	36	84078
.190	1	.087	3/16	0.188	4.763	5	36	84079
.260	1	.115	1/4	0.250	6.350	5	36	84080
.325	1	.115	5/16	0.313	7.938	5	36	84081
.385	1	.147	3/8	0.375	9.525	5	36	84082
.515	1	.168	1/2	0.500	12.700	5	36	84083
.640	1	.168	5/8	0.625	15.870	5	36	84084
.765	1	.221	3/4	0.750	19.050	5	36	84085
.890	1	.221	7/8	0.875	22.225	5	36	84086
1.015	1	.248	1	1	25.400	5	36	84087

^{*} All catalog items are Silicon Carbide (SiC) filament. Aluminum Oxide is available by special order.



Tampico and Nylon Filament Wheel Brushes



Tampico natural fiber provides highly effective dry or wet cleaning and refining of surfaces, with or without compounds.

It is also highly effective for dusting, cleaning, finishing, removing burrs, tool marks, excess stain in woodworking, and many other applications where a gradual, highly-controllable surface cleaning action is desirable.

Brush Dia. (Inches)	Arbor Hole	Trim Length	Face Width	MSFS Max RPM	Qty	EDP Number
Tube Cent	ter					
2	1/4	11/16	1/8	20,000	1	84319
2-1/2	1/2	3/4	1/2	20,000	1	84320
3	1/2	1	1/2	20,000	1	84321
Narrow Fa	ace Wheel	S				
6	1-1/4*	1-1/2	5/8	6,000	1	84324
8	1-1/4*	1-5/8	5/8	4,500	1	84327
10	1-1/4*	2-3/8	7/8	4,250	1	84330
12	1-1/4*	3-3/8	1	3,600	1	84332
14	1-1/4*	4-3/8	5/8	3,000	1	84333
16	1-1/4*	3-7/8	3/4	2,400	1	84335



For scrubbing and brushing contaminants from surfaces, but versatile for low-abrasion cleaning. Excellent for light cleaning action with solution-dependent applications. These brushes may be used individually or gang-mounted to any desired width. Highly abrasion resistant, highly chemical resistant, also heat stabilized.

Brush Dia. (Inches)	Arbor Hole	Filament Dia.	Trim Length	Face Width	MSFS Max RPM	Qty	EDP Number
Tube Cent	ter						
1-1/2	3/8	.010	7/16	1/4	20,000	10	84338
2	1/2	.010	1/2	3/8	20,000	10	84339
2	1/2	.014	1/2	3/8	20,000	10	84340
3	1/2	.010	1	3/8	20,000	10	84342
3	1/2	.016	1	3/8	20,000	10	84343
Standard	Diameter						
6	1-1/4*	.016	1-1/2	3/4	6,000	2	84344
8	1-1/4*	.016	1-7/8	3/4	4,800	2	84345



Keyed Arbor Adapters* - Style A have builtin keyways to reduce all narrow face brushes manufactured to 1-1/4" arbor hole with dual keyways to common arbor hole sizes.

Arbor Hole Dia.	Included Keyways (#)	Qty	EDP Number
Adapte	r Style A		
1/2	1/8 x 3/32 (2)	1	84605
5/8	3/16 x 1/8 (2)	1	84606
3/4	3/16 x 1/8 (2)	1	84607
7/8	3/16 x 1/8 (2)	1	84608
1	1/4 x 5/32 (2)	1	84609

Non-Wire Filament Characteristics

Characteristic	Prostran	6 Nylon	6.6 Nylon	6.12 Nylon	Polypro- pylene	Horse- hair	Tampico
Heat Distortion (°F)	225	250	300	250	225	370	283
Melting Point	330	410	500	405	330	-	-
Bend Recovery (%)	Fair	90	90	90	70-80	Fair	Poor
Shelf Life	Fair	Excellent	Excellent	Excellent	Good	Poor	Fair
Abrasion Resistance		Good	Excellent	Excellent	Good	Good	Poor
Specific Gravity (G/CC)		1.13-4	1.13-4	1.04-5	.90-1		
Tensile Strength (PSI)		50-60M	60-70M	50-60M	50-80M		



Strip Brushes and Holders



Versatile, in a choice of filaments. Strips can be custom constructed into cup, oval, coil, helical and straight strip shapes.
Used for cleaning, dusting, spreading, guarding, chip removal, static elimination, and many other applications.

Brush Height (Inches)	Brush Length	Filament Dia./Grit	Fill Material	Qty	EDP Number
2-1/2	72	.008	Carbon Steel	1	84369
		.014	Carbon Steel		84370
		.008	Stainless Steel		84371
		M-Brad 120 Grit	Silicon Carbide		84372
		M-Brad 320 Grit	Silicon Carbide		84373
		.008	Prostran™		84374
		.012	Prostran™		84375
		.016	Prostran™		84376
		.028	Prostran™		84377
		_	White Tampico		84378



Heavily-formed channel clips designed to be welded 8 to 10 inches apart along the length of the strip brush mounting.

Available in carbon or stainless steel.

Strip Height (Inches)	Strip Length	Material	Strip Depth	Qty	EDP Number
11/16	/16 1/2	Carbon	2	1	84379
		Stainless	2	1	84380

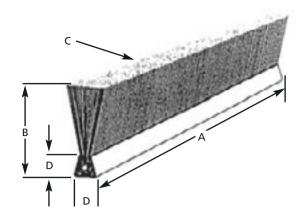
ADVANCE BRUSH also offers helix strip conveyor cleaning cores in 6" and 11" diameters with standard or customer arbor hole configurations. Choose ADVANCE conveyor cleaning brushes and replacement strips to clean all rubber and fabric conveyor belts easily and efficiently.

Please contact your ADVANCE sales representative for additional information.

Non-Wire Filament Chemical and Environmental Resistance

Characteristic	Prostran	6 Nylon	6.6 Nylon	6.12 Nylon	Polypro- pylene	Horse- hair	Tampico
Dilute Alkalis	-	Excellent	Excellent	Excellent	Excellent	-	-
Dilute Acids	Good	Poor	Fair	Good	Excellent	Poor	Good
Strong Acids	Fair	Fair	Good	Good	Good	G-Poor	G-Poor
Alcohols	Good	Good	Good	Good	Excellent	Poor	Good
Petroleum Distillates	-	Excellent	Excellent	Excellent	Good	-	-
Hot Water	-	Fair	Good	Good	Fair	Poor	-





A.	BRUSH LENGTH:	F.	WET OR DRY USE:
В.	OVERALL TRIM:	G.	FILAMENT DENSITY:
C.	BRUSH FILLING:		light □ medium □ heavy □
	Type:	Н.	ENDS DEBURRED? Yes / No
	Filament:	l.	QUANTITY PER ORDER:
	Color: crimped ☐ level ☐	J.	ANNUAL USAGE:
D.	METAL CHANNEL SIZE#:	K.	BRUSH APPLICATION AND/OR
E.	width x height #4		COMMENTS:
	☐ Galvanized (most common)☐ Stainless steel		brush is to fit a holder, please indicate to ssure a proper fit.
	☐ Aluminum	* P	lease indicate any critical tolerances.
QU	IOTATION REQUESTED BY:	Tele	ephone No:
Cal	mnan//	_	No.:
	mpany:		
Ad	dress:	Α	DVANCE BRUSH CONTACT INFORMATION
•	y, State Zip:ntact Name:	Fa In	fustomer Service: (800) 342-9015 (978) 840-6420 ax: (978) 840-6421 http://www.pferdusa.com -mail: mail@pferdusa.com



ADVANCE BRUSH is proud to offer a wide variety of manufactured-to-order Wide Face brushes. Our brushes can be designed and produced to be used in almost any application. Please copy and fill out the appropriate quotation request form for the brush you require.

In addition to the products listed below, our new, state-of-the-art manufacturing facility is dynamic and flexible. We will be happy to quote additional custom brushes to your specifications.



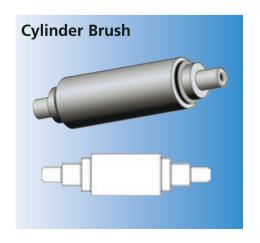
METAL CHANNEL STRIP BRUSHES are available in a variety of natural, wire, and synthetic filaments set in a metal channel. These brushes are commonly used for industrial dusting or to guard against flying debris from grinding and cutting machinery. Strip brushes are initially built as straight strips, but can be bent and formed into a number of shapes, such as helical strips to be mounted on a shaft (for conveyor cleaning), discs, and cups.

Please see our Strip Brush Quotation Form on the previous page to help us design the strip brush that is perfect for your needs.



COIL WOUND CYLINDRICAL BRUSHES are strip brushes which are wound into a coiled shape to be mounted on a shaft or disposable tubing. They can be tightly wound to achieve maximum brushing performance, and may also be open wound, with a lead, which decreases brush aggressiveness, and provides more flexibility.

Please send details on your coil brush requirements by completing the quotation form on page 70.



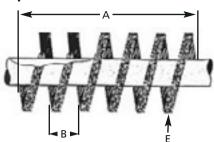
CYLINDER BRUSHES are wide face brushes that are custom manufactured to suit your specific application and equipment.

Available in a wide selection of wire, synthetic and natural fibers, cylinder brushes offer the most diverse selection of customizable parameters to suit all industrial applications. Cylinder Brushes are commonly used in metalworking, textile, printed circuit board, agriculture & food, glass and steel mill industries for applications including conveyor cleaning, circuit board cleaning, sheet metal scrubbing, leather hide buffing, food preparation. They are also commonly used as augers for material handling.

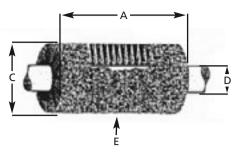
Please send details on your cylinder brush requirements and core specifications by completing the quotation form on page 71.



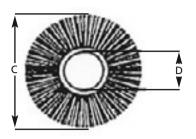
Open Wound Coil Brush



Close Wound Coil Brush

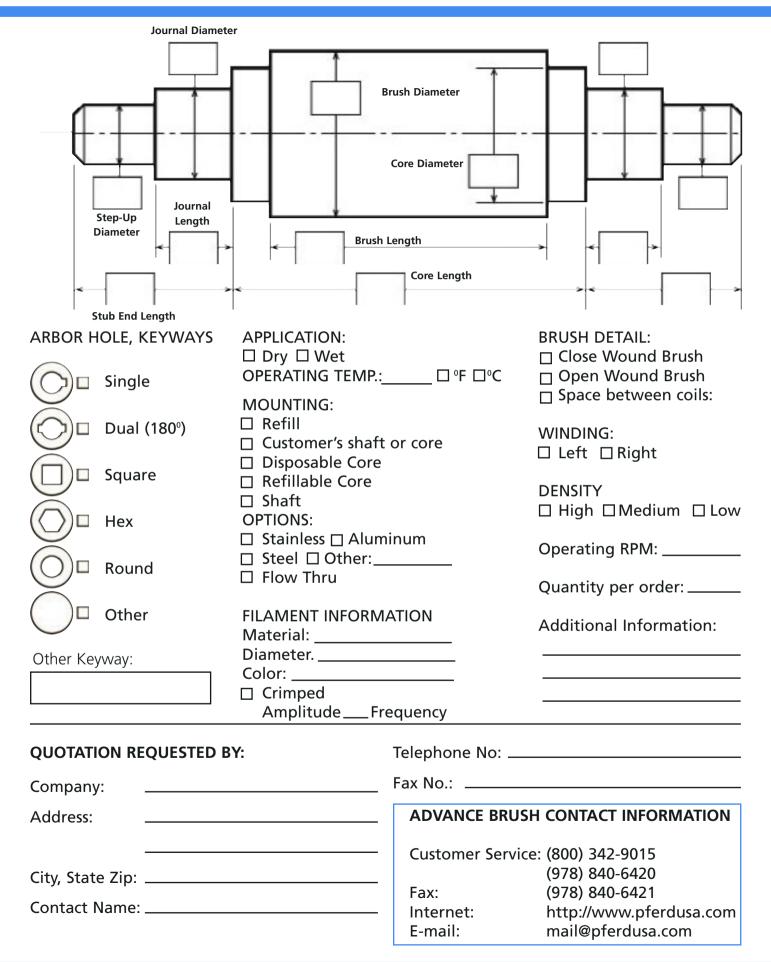


Coil Brush Side View



A. BRUSH FACE: B. LEAD (Open Wound Only):	H. APPROXIMATE RPM: I. □ WET OR □ DRY USE
C. OUTSIDE DIAMETER: D. INSIDE DIAMETER: E. BRUSH FILLING:	J. BRISTLE DENSITY: light medium heavy K. MOUNTING CLIPS: YES / NO L. QUANTITY PER ORDER: M. ANNUAL USAGE: N. BRUSH APPLICATION AND/OR COMMENTS:
F. Metal Channel Size:	 * Please indicate any critical tolerances. * We manufacture the brush to fit "snug" on the customer's shaft unless otherwise specified. * Coil brushes are wound right-hand unless otherwise specified. * Brushes are supplied unmounted. We are able to mount them on customer shafts.
QUOTATION REQUESTED BY:	Telephone No:
Company:	Fax No.:
Address:	ADVANCE BRUSH CONTACT INFORMATION Customer Service: (800) 342-9015
City, State Zip:	(978) 840-6420
Contact Name:	Fax: (978) 840-6421 Internet: http://www.pferdusa.com E-mail: mail@pferdusa.com







Conveniently packaged for Industry, Welding, Farm, Automotive and Do-It-Yourself

A range of the most commonly purchased ADVANCE power brushes is available in sales-promoting individual packaging. Each brush is enclosed in a transparent, recyclable plastic clamshell, allowing the customer to judge the brush and its properties without removing the packaging. The label shows all key technical data as well as the UPC barcode. In addition, a multi-language instruction sheet, enclosed with each brush, provides information on the safe use of ADVANCE power brushes.

In addition to new and improved, stronger clamshells. ADVANCE wooden handled scratch brushes are now imprinted with the ADVANCE BRUSH logo. They can be displayed attractively along with the power brush line on your ADVANCE wall display.

Please contact ADVANCE customer service for details on ordering the 4' headers for your display rack on your next purchase of display packaged brushes.



Mini Grinder Brushes - Wheels and Cups



4" Wheels - Knot Crimned

wheels - Khot, Chiliped												
Fill Configuration	Wire Size	Wire Type	Trim Length	Max. RPM	EDP - Arbor Hole 5/8-11 1/2-13 M10x1.25 M10x1.50 M14x2.0							
Stringer Bead	.020	Carbon Steel	3/4	20,000	84825	84826	84827	84828	84829			
	.020	Stainless	3/4	20,000	84831	84832	84833	84834	84835			
Full Cable Knot	.020	Carbon Steel	3/4	20,000	84844	84845	84846	-	-			
Standard Knot	.014	Carbon Steel	3/4	20,000	84865	-	-	-	-			
	.014	Stainless	3/4	20,000	84867	-	-	-	-			
Crimped	.014	Carbon Steel	3/4	12,500	84869	84870	84871	84872	84873			



2-3/4" Cups - Standard

Style	Wire Size	Wire Type	Trim Length	Max. RPM	5/8-11	EDP - Aı 1/2-13	bor Hole M10x1.25	M10x1.50
Knot	.020	Carbon Steel	3/4	14,000	84906	84907	84908	84909
	.020	Stainless	3/4	14,000	84924	84925	84926	84927
Crimped	.014	Carbon Steel	7/8	14,000	84912	84913	84914	84915
	.014	Stainless	7/8	14,000	84930	84931	84932	84933



3-1/2" Cups - Heavy Duty

Style	Wire Size	Wire Type	Trim Length	Max. RPM	EDP - Arbor Hole 5/8-11 1/2-13 M10x1.25 M10x1.5				
	3120	iypc	Length	141 141	3/0 11	1/2 13	141 TOX 1.23	141 TOX 1.50	
Knot	.020	Carbon Steel	3/4	12,500	84936	84937	84938	84939	
	.020	Stainless	3/4	12,500	84948	84949	84950	84951	
Crimped	.014	Carbon Steel	7/8	12,500	84942	84943	84944	84945	
	.014	Stainless	7/8	12,500	84954	84955	84956	84957	



4" Bevel Cups

Arbor Adapters

Style	Wire Size	Wire Type	Trim Length	Max. RPM	EDP 5/8-11
Knot	.014	Carbon Steel	3/4	20,000	84960
	.020	Carbon Steel	3/4	20,000	84966
	.020	Stainless	3/4	20,000	84978
Crimped	.014	Carbon Steel	3/4	15,000	84984
	.014	Stainless	3/4	15,000	84990



Keep machine guards in place. Wear eye protection. Observe speed restrictions. Use protective equipment and clothing. Comply with safety standards ANSI B165.1 2000. Observe safety requirements enclosed with products. This warning applies to all personnel

in brush operating area. 5/8-11 to 3/8-24 84998 **Metric Adapter** 5/8-11 to M10x1.25 84996 **Metric Adapter** 84997 5/8-11 to M10x1.5



Description Size EDP **Shank Adapter** 1/2 Arbor Hole to 1/4 Shank 84999 SAE Adapter

FAILURE TO OBSERVE SAFETY PRE-**CAUTIONS MAY RESULT IN INJURY**





Knot Wheel Brushes

Twist	Brush Dia.	Wire Size	Wire Type	Arbor Hole	Face Width	Trim Length	Max. RPM	EDP
Stringer Bead	5	.020	Carbon Steel	5/8-11	3/16	3/4	15,000	84875
	5	.020	Stainless	5/8-11	3/16	3/4	15,000	84880
	6	.020	Carbon Steel	5/8-11	3/16	1-1/4	10,000	84877
	6	.020	Stainless	5/8-11	3/16	1-1/4	10,000	84881
Full Cable Twist	5	.023	Carbon Steel	5/8-11	3/8	3/4	15,000	84884
	5	.023	Stainless	5/8-11	3/8	3/4	15,000	84889
	6	.023	Carbon Steel	5/8-11	1/2	1-1/4	10,000	84885
Standard Twist	6	.014	Carbon Steel	5/8-1/2	5/8	1-1/8	9,000	84893
	6	.016	Carbon Steel	5/8-1/2	1	1-1/8	7,800	84894
	8	.016	Carbon Steel	5/8	5/8	1-5/8	7,000	84895



Crimped Wheel Brushes

Style	Brush Dia.	wire Type	Arbor Hole	Face Width	Trim Length	Max. RPM	EDP - Wi	ire Size .014
Narrow Face	4 6 7 8	Carbon Steel Carbon Steel Carbon Steel Carbon Steel	5/8-1/2 5/8-1/2	1/2 9/16 9/16 9/16	13/16 1-1/4 1-3/4 2-1/4	6,000 6,000 6,000 4,500	- 84704 84706 84708	84701 84705 84707 84709
Wide Face	6 7 8	Carbon Steel Carbon Steel Carbon Steel	5/8-1/2* 5/8*	7/8 1 1	1-1/8 1-5/8 2-1/8	6,000 6,000 6,000	84712 84714 84716	84713 84715 84717
EZmount®	6 8	Carbon Steel Carbon Steel		7/8 7/8	7/8 1	6,000 4,500	84720 84722	84721 84723

- * Includes adapter(s) to reduce from 2" Arbor Hole
- ** Adapts to 5/8", 3/4", 1" and 2" Arbor Hole



Cup Brushes

Style	Brush Diameter	Wire Size	Wire Type	Arbor Hole	Trim Length	Max. RPM	EDP
Knot	4	.020	Carbon Steel	5/8-11	1-1/2	7,000	84739
	6	.023	Carbon Steel	5/8-11	1-3/4	6,000	84755
Crimped	4	.014	Carbon Steel	5/8-11	1-1/4	6,000	84742
	6	.014	Carbon Steel	5/8-11	1-1/2	6,000	84759



End Brushes

Brush Dia.	Wire Type	Trim Length	Shank Size	Max. RPM	.006	EDP - W .010	ire Size .014	.020
3/4	Carbon Steel	1	1/4	20,000	-	-	84772	84773
3/4	Stainless	1	1/4	20,000	-	-	84774	-
1	Carbon Steel	1	1/4	20,000	-	-	84780	84781
1	Stainless	1	1/4	20,000	84782	-	84783	-
1/2	Carbon Steel	1	1/4	22,000	84770	-	-	84771
3/4	Carbon Steel	1	1/4	20,000	84775	-	84776	84777
3/4	Stainless	1	1/4	20,000	84778	84779	-	-
1	Carbon Steel	1	1/4	20,000	84784	-	84785	84786
1	Stainless	1	1/4	20,000	84787	84788	84789	84790
	Dia. 3/4 3/4 1 1 1/2 3/4	Dia. Type 3/4 Carbon Steel 3/4 Stainless 1 Carbon Steel 1 Stainless 1/2 Carbon Steel 3/4 Carbon Steel 3/4 Stainless 1 Carbon Steel	Dia.TypeLength3/4Carbon Steel13/4Stainless11Carbon Steel11/2Carbon Steel13/4Carbon Steel13/4Stainless11Carbon Steel1	Dia. Type Length Size 3/4 Carbon Steel 1 1/4 3/4 Stainless 1 1/4 1 Carbon Steel 1 1/4 1/2 Carbon Steel 1 1/4 3/4 Carbon Steel 1 1/4 3/4 Stainless 1 1/4 1 Carbon Steel 1 1/4	Dia. Type Length Size RPM 3/4 Carbon Steel 1 1/4 20,000 3/4 Stainless 1 1/4 20,000 1 Carbon Steel 1 1/4 20,000 1/2 Carbon Steel 1 1/4 20,000 3/4 Carbon Steel 1 1/4 20,000 3/4 Stainless 1 1/4 20,000 1 Carbon Steel 1 1/4 20,000	Dia. Type Length Size RPM .006 3/4 Carbon Steel 1 1/4 20,000 - 3/4 Stainless 1 1/4 20,000 - 1 Carbon Steel 1 1/4 20,000 84782 1/2 Carbon Steel 1 1/4 22,000 84770 3/4 Carbon Steel 1 1/4 20,000 84778 1 Carbon Steel 1 1/4 20,000 84784	Dia. Type Length Size RPM .006 .010 3/4 Carbon Steel 1 1/4 20,000 - - 3/4 Stainless 1 1/4 20,000 - - 1 Carbon Steel 1 1/4 20,000 84782 - 1/2 Carbon Steel 1 1/4 22,000 84770 - 3/4 Carbon Steel 1 1/4 20,000 84775 - 3/4 Stainless 1 1/4 20,000 84778 84779 1 Carbon Steel 1 1/4 20,000 84784 -	Dia. Type Length Size RPM .006 .010 .014 3/4 Carbon Steel 1 1/4 20,000 - - 84772 3/4 Stainless 1 1/4 20,000 - - 84774 1 Carbon Steel 1 1/4 20,000 - - 84780 1/2 Carbon Steel 1 1/4 20,000 84782 - 84783 1/2 Carbon Steel 1 1/4 20,000 84770 - - 3/4 Carbon Steel 1 1/4 20,000 84775 - 84776 3/4 Stainless 1 1/4 20,000 84778 84779 - 1 Carbon Steel 1 1/4 20,000 84784 - 84785



Crimped Mounted Cup Brushes

Style	Brush Diameter	Wire Type	Shank Size	Trim Length	Max. RPM	EDP - W .012	ire Size .014
Flared Cup	1-1/2 2	Carbon Steel	1/4 1/4	1/4 1/2	20,000	84813	- 84814
	3	Carbon Steel	1/4	7/8	15,000	-	84816
Cup	1-1/2	Carbon Steel	1/4	9/16	13,000	84818	-
	2	Carbon Steel	1/4	5/8	13,000	84819	-
	2-1/2	Carbon Steel	1/4	11/16	13,000	84820	-