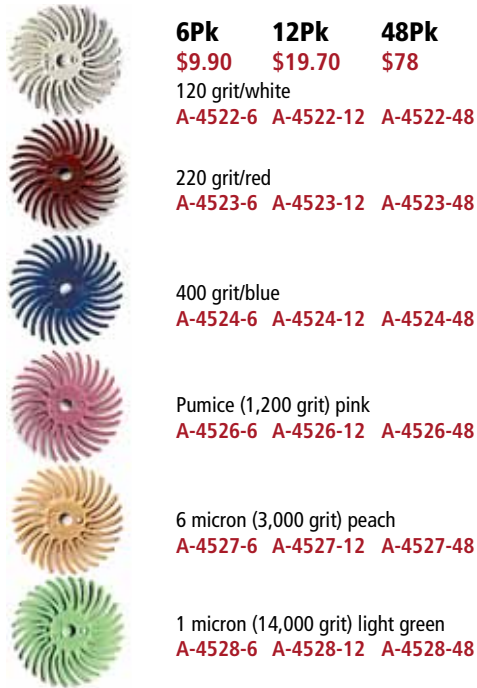


3M Scotch-Brite™ Radial Bristle Discs— 9/16", 3/4", 1"

9/16" Diameter with 1/16" arbor hole



6Pk	12Pk	48Pk
\$9.90	\$19.70	\$78
120 grit/white A-4522-6 A-4522-12 A-4522-48		
220 grit/red A-4523-6 A-4523-12 A-4523-48		
400 grit/blue A-4524-6 A-4524-12 A-4524-48		
Pumice (1,200 grit) pink A-4526-6 A-4526-12 A-4526-48		
6 micron (3,000 grit) peach A-4527-6 A-4527-12 A-4527-48		
1 micron (14,000 grit) light green A-4528-6 A-4528-12 A-4528-48		

3/4" Diameter with 1/16" arbor hole



6Pk	12Pk	48Pk
\$9.90	\$19.70	\$78
80 grit/yellow A-4511-6 A-4511-12 A-4511-48		
120 grit/white A-4512-6 A-4512-12 A-4512-48		
220 grit/red A-4513-6 A-4513-12 A-4513-48		
400 grit/blue A-4514-6 A-4514-12 A-4514-48		
Pumice (1,200 grit) pink A-4516-6 A-4516-12 A-4516-48		
6 micron (3,000 grit) peach A-4517-6 A-4517-12 A-4517-48		
1 micron (14,000 grit) light green A-4518-6 A-4518-12 A-4518-48		

1" Diameter with 1/8" arbor hole



6Pk	12Pk	24Pk
\$12.50	\$22.60	\$44
36 grit/brown A-4532-6 A-4532-12 A-4532-24		
50 grit/green A-4533-6 A-4533-12 A-4533-24		
80 grit/yellow A-4534-6 A-4534-12 A-4534-24		
120 grit/white A-4535-6 A-4535-12 A-4535-24		

Made in USA

Stack 6 or more discs onto a mandrel for making a sturdy brush. Discs are not used individually except when working in the narrowest of channels.



30,000 RPM Max Speed
Recommended Operating Speed for most applications is 3,000–18,000 RPM (5,000 RPM for woodcarving).
Slower speeds allow greater flexibility and a softer touch with the bristles. Use the tips of the bristles with light pressure to extend the life of the accessory and achieve more subtle results. Higher speeds provide more aggressive material removal.

Scotch-Brite Radial Bristle Discs have thin flexible bristles that get into hard to reach areas without removing detail or making flat spots. No need to add compound. 3M Cubitron™ and aluminum oxide grain embedded throughout the bristles enable them to work faster and last far longer than rubber wheels, regular brushes, buffs or conventional sanders. They generate little or no dust nor the heat associated with wheels and buffs.

For Dental Labs & Jewelers
These non-contaminating discs are ideal for cleaning metal surfaces, removing light fire scale and oxide, finishing, blending, texturing, pre-polishing and polishing all precious and non-precious metals, dental acrylics, flexite, and ceramics.

For Woodcarvers Scotch-Brite Radial Bristle Discs are superior to sandpaper, flap wheels, or other types of sanders, brushes or abrasive wheels for many woodcarving and woodworking applications. Their flexible bristles can sand areas with detail, irregular, curved, or flat surfaces on soft or hard woods. Carvers can remove the "fuzzies" left behind without harming any of the underlying detail. The coarser grits can be used to carve and texture, while the finer grits will smooth, burnish, and polish.

Mandrels for use with Radial Bristle Discs

Part No.	Shank	Arbor	9/16"	3/4"	1"
A-M1	3/32"	1/16"	*	*	
A-M2	3/32"	1/8"			*
A-M6	1/8"	1/16"	*	*	
A-M20	1/8"	1/8"			*
A-M14	1/8"	1/8"			*
A-M15	1/8"	1/16"	*	*	

Assortment Kits with Mandrels

	Part No.	Price
9/16" 37-pc kit 6 discs ea. of 120, 220, 400, Pumice, 6 micron, & 1 micron plus A-M1 mandrel (3/32")	AK4520	\$59
3/4" 38-pc kit 6 discs ea. of 80, 220, 400, Pumice, 6 micron, and 1 micron plus A-M1 (3/32") and A-M6 (1/8") mandrels	AK4510	\$60
3/4" 26-pc kit 6 discs ea. of 80, 120, 220, 400, and 6 micron plus A-M1 (3/32") and A-M6 (1/8") mandrels	AK4515	\$38
3/4" 10-pc kit 3 discs ea. of 80, 400, & 6 micron + A-M6 (1/8") mandrel	AK4519	\$14
1" 25-pc kit 6 discs ea. of 36, 50, 80, & 120 grit + A-M20 (1/8") mandrel	AK4530	\$49
1" 10-pc kit 3 discs ea. of 36, 80, and 120 grit + A-M20 (1/8") mandrel	AK4539	\$19

3M Scotch-Brite™ Radial Bristle Discs– 2" & 3"

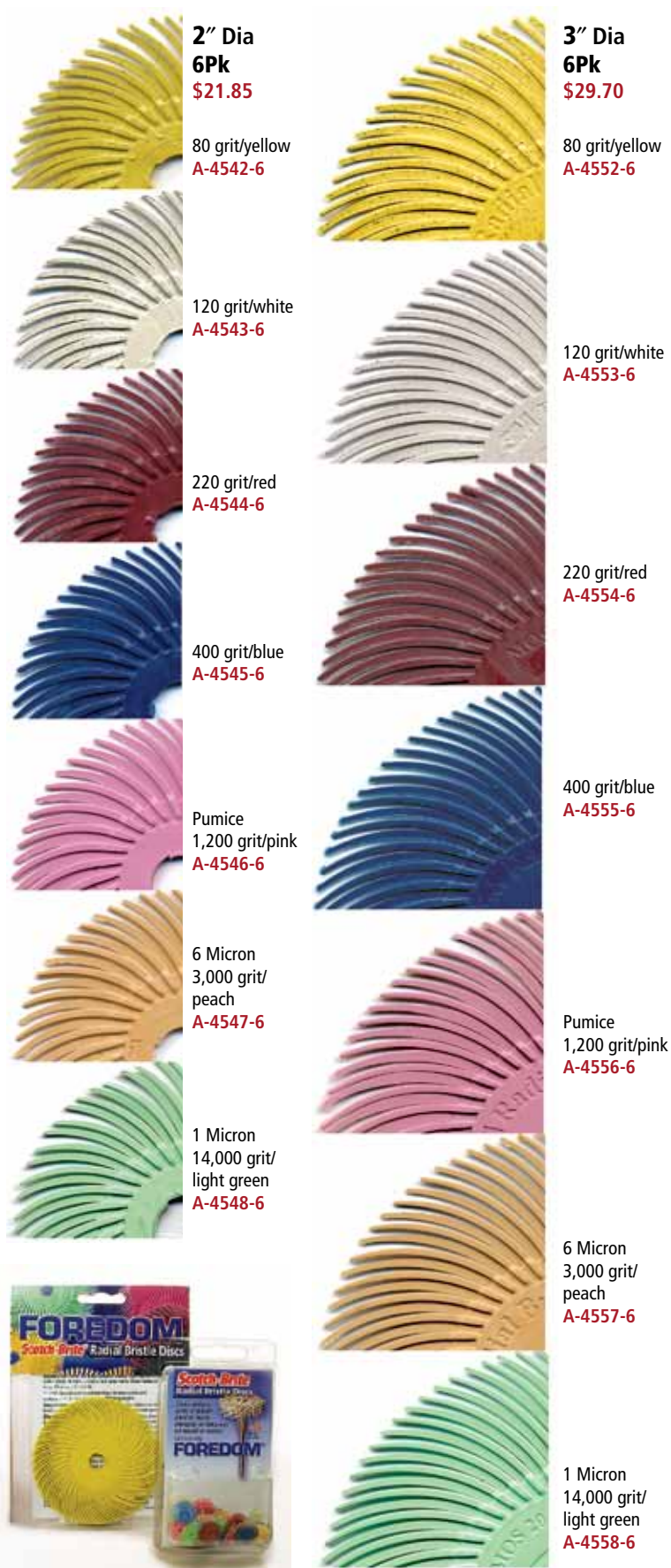
with 3/8" arbor hole. Made in USA

2" Discs 30,000 RPM Max Operating Speed
Recommended Speed for most applications is 5,000–18,000 RPM

3" Discs 20,000 RPM Max Operating Speed
Recommended Speed for most applications is 5,000–18,000 RPM

2" and 3" Scotch-Brite Radial Bristle Discs share the same excellent properties as the smaller sizes shown on the opposite page. These larger discs can be stacked on mandrels for use with flex shaft and micromotor handpieces, and on spindle adapters for use on the BL bench lathe. 2" discs can also be used with our short and long mounting hubs on Foredom's Angle Grinder Attachment. See mandrels listing below. When using on the lathe, Radial Bristle Discs are most effective at speeds of 5,000 to 7,000 RPM.

Part Numbers and Prices are shown in red.



Mandrels for use with 2" and 3" Radial Bristle Discs

Part No.	Arbor Hole/ Shank Size	2"	3"
For Use with Handpieces:			
A-M30 Flat Head	1/4"	*	*
A-M31 Screw	1/4"	*	*
For Use with Bench Lathe:			
A-4561 Right Side Black Tapered Spindle Adapter	3/8"	*	*
A-4562 Left Side Grey Tapered Spindle Adapter	3/8"	*	*
For Use with Angle Grinder:			
A-69212 Short Hub		*	
A-69212L Long Hub		*	

Felt Buffing and Polishing Accessories

Made in USA. 20,000 RPM Max Speed

Felt Buffing and Polishing Accessories are used with compounds on hard and soft metals, metal plate, precious metals, plastics, wood, acrylic, and painted surfaces. Select the appropriate compound, below, for the material being worked to produce desired finish.

AKFK3 \$38 16-Pc Kit Mounted Felt Bobs

1/8" shanks

Contains all 8 shapes below
in medium and hard densities



1/8" (3.18mm) Shank Mounted Felt Bobs Priced Ea



Part No.	Shank Dia.	Part No.	Shank Dia.	Part No.	Shank Dia.	Part No.	Shank Dia.
A-MS1*	1/2	A-MS3*	1/2	A-MS4*	1/2	A-MS6*	1/2
1	1	3/4	1/2	A-MP1*	1/4	A-MP4*	3/8
\$2.90	\$2.90	\$2.90	\$2.90	1/4	1/2	1/2	3/4
				A-MP5*	1/2	A-MP8*	3/4
				\$1.50	\$1.65	\$1.80	\$2.90

* Please specify Medium or Hard Density when ordering by adding M or H to Part No.

Part Numbers and Prices are shown in red.

More About Felt:

Felt is a compound carrier and the abrasives in compounds perform the actual polishing function. However, surface speed, felt hardness, applied pressure, and frictional contact determine the amount of surface removal, or polishing desired. "Cutting down" refers to a greater amount of surface removal than does "coloring". Whether someone uses the term buffing, polishing or finishing, they typically mean a 2-step process of cutting and then coloring by which the luster or reflectiveness of a product is enhanced.

Unmounted Felt Bobs

with 1/8" & 3/32" arbor holes

Priced per 10Pk
Medium Density ONLY

Part No.	Shank Dia.	Part No.	Shank Dia.	Part No.	Shank Dia.
A-C1M	1/4	A-C2M	3/8	A-C3M	1/2
1/2	3/4	1			
\$13.50/10	\$16.70/10	\$24/10			
A-M3 (3/32")	A-M7 (1/8")	A-M7 (1/8")			

Mandrels not included with unmounted felt bobs.

Part No.
Dia. "
Lgth/Thick"
Price
Sugg. Mandrel
(Shank Size)

Polishing Compounds

Made in USA

AK4000 4 Bar Kit – Includes A-4001 Emery, A-4002 Tripoli, A-4003 White Diamond, A-4004 Red Rouge Kit 22.25 oz. **AK4000 \$11.10**

Emery	6.5 oz. bar	A-4001	\$2.80
	19 oz. bar	A-5001	9.20
Tripoli	4.5 oz. bar	A-4002	\$2.80
	14 oz. bar	A-5002	9.20
White Diamond Rouge	5.5 oz. bar	A-4003	\$2.80
	17 oz. bar	A-5003	9.20
Red Rouge	5.75 oz. bar	A-4004	\$2.80
	17 oz. bar	A-5004	9.20
	1 oz. tube	A-40041	2.10
Platinum Blue	5 oz. bar	A-4007	\$6.50
	1oz. tube	A-40071	2.50
Platinum White	5.75 oz. bar	A-4006	\$9.20
	1 oz. tube	A-40061	2.50
Carnauba	2 oz. bar	A-4008	\$9.20



All of our polishing compounds come in standard size bars. We also offer Platinum Blue, Platinum White, and Red Rouge in small tubes that are sized and priced right for getting started with a new compound. Platinum Blue and Platinum White are unique formulations that are only available from Foredom.

1 Emery (Black)

Contains coarse grit to remove surface imperfections, scratches, rust, and burrs from iron, steel and other hard metals.

2 Tripoli (Brown)

Most popular compound for blending and contouring. Also for general cutting down, scratch removal, and buffing on acrylics and non-ferrous metals such as zinc die castings, brass, copper, aluminum castings and sheets.

3 White Diamond Rouge

Fast cutting on hard metals. Made with fine abrasive powder that produces a final satin finish on chrome, stainless steel, carbon steel, brass, and aluminum. Also use to remove rust, scale and carbon deposits on metal surfaces.

4 Red Rouge

Produces a high luster on gold, silver, pewter, nickel plating and plastics for final polishing.

5 Platinum Blue

For pre-polishing and cutting down of platinum and other metals.

6 Platinum White

Use for final polishing. Produces a deep luster high color final polish on platinum, gold, silver, and all metals. Also for final polishing on flexible partial material and acrylic.

7 Carnauba

The hardest natural wax available. Non-tacky and highly regarded for its tough and wear resistant qualities. It is especially good for producing a high luster on wood & painted surfaces.



Cotton and Felt Polishing Buffs *Made in USA*

Use 1" and 2" Buffs with A-M78 & A-M89 Mandrels at 20,000 RPM Max Speed. **New** 2" Goblet and 3" and larger Buffs are for use on Bench Lathe tapered spindels at 5,000 RPM Max Speed

White Muslin Buffs



Coarse Weave (60 x 60) Muslin

have a more open weave to hold more compound. Used as a general purpose buff with cutting and polishing compounds. Combed edges do not need breaking in or combing to hold compound. The center pin holes are reinforced with shellac (S) for a tight fit on tapered mandrels and greater durability.

Dia.	Ply	Rows of Stitching	Center Hole	Part No.	Price Each
1"	40	1	S	A-CBC1	\$2.25
2"	40	1	S	A-CBC2	2.50
3"	40	3	S	A-CBC3	3.50
4"	40	3	S	A-CBC4	4.60
6"	50	4	S*	A-CBC65	8.50
7"	50	4	S*	A-CBC75	10.00

*Extra thickness eliminates need for leather reinforcements.

Fine Weave (80 x 80) Finex Muslin

hold compounds well but the tighter weave results in longer life. The center pin holes are reinforced with shellac (S) for a tight fit on tapered mandrels and greater durability. Combed edges do not require break in or combing to hold compound. The fine weave and stitching make them durable and especially suitable for polishing with rouge.

Dia.	Ply	Rows of Stitching	Center Hole	Part No.	Price Each
1"	40	1	S	A-CBF1	\$2.50
2"	40	1	S	A-CBF2	2.80
3"	40	3	S	A-CBF3	3.90
4"	40	3	S	A-CBF4	5.00

Flannel (Canton) Buff

These canton flannel buffs are made with thicker, softer fabric. Excellent for final polishing with rouge on precious metals (especially good on high karat gold and silver). Center pin holes are reinforced with shellac (S) for a tight fit on tapered mandrels.



Dia.	Ply	Rows of Stitching	Center Hole	Part No.	Price Each
3"	30	2	S	A-CFB3	\$4.80

Loose White Muslin Buffs

These buffs have only one row of stitching around the arbor hole which is reinforced with leather and shellac (L/S). Made of Finex (80 x 80 weave) muslin with combed edges. The open layers provide a softer polishing action and conform to contours and curves. Use with rouge for coloring or final polishing operations.



Dia.	Ply	Part No.	Price Each
3"	35	A-LCB35	\$3.50
3"	40	A-LCB3	3.90
4"	40	A-LCB4	5.15

Yellow Treated Cotton Buffs



Made with chemically treated extra fine (86 x 80) weave fabric, these buffs are stiffer than untreated ones. They will cut faster and last 2 to 3 times longer than white muslin buffs. Combed edges hold compounds without break in or combing. Center pin holes are reinforced with shellac (S) or leather and shellac (L/S).

Dia.	Ply	Rows of Stitching	Center Hole	Part No.	Price Each
4"	30	3	S	A-CBY43	\$5.95
4"	40	3	S	A-CBY4	7.00
5"	40	3	L/S	A-CBY5	8.30
6"	40	4	L/S	A-CBY6	9.60
6"	50	4	S	A-CBY65-S	11.40

Razor Edge Yellow Treated Buff

Made with chemically treated (86 x 80) weave muslin for added stiffness and longer life. The additional stitching and leather + shellac (L/S) center keeps wheel stiff while in use. Used for cutting and polishing in grooves, crevices and inside curves.



Dia.	Ply	Center Hole	Part No.	Price Each
4"	28 at center, 12 ply at outside edge.	L/S	A-CYR4	\$6.00

NEW

Fine Weave Cotton Goblet Buffs



Fine weave cotton goblet style buffs have round-ends that are shaped to conform to the inside of a bowl or goblet. Use with polishing compound to add luster to any metal or Carnauba Wax for use on turned wooden pieces.

Dia.	Shape	Rows of Stitching	Center Hole	Part No.	Price Each
2"	Round	1	L/S	A-CBGR2	\$18
2"	Tapered	1	L/S	A-CBGT2	\$18

2" and Smaller Diameter Buffs for use with Mandrels in Handpieces

25,000 RPM Max Speed

Small diameter buffs mount on mandrels for use in Freedom Handpieces. White Muslin A-CB2 and A-CB12

are made from fine (80 x 80) weave muslin for use with all types of compounds. They work with A-M1, A-M6, A-M7, A-M13, and A-M15 mandrels.



Dia.	Thick	Ply	Rows of Stitching	Part No.	Price Each
1"	3/16"	16	2	A-CB2	\$1.40
1-1/2"	3/16"	16	3	A-CB12	2.50

Square Edge Solid Felt Buffs

Square Edge Solid Felt Buffs shown below are made from tightly compressed, top quality wool felt and come in Medium and Hard densities. Use for polishing and lapping flat surfaces. They will hold an edge for working in angles and corners. 1/2" - 1" Priced per 10Pk

2" & 3" Priced Each

Arbor Hole Sizes:
1/16" for A-SE1, A-SE2, A-SE3, A-FB4 and A-FB3
1/8" for A-SE4 and A-SE5



Dia.	Thick	Hardness	Part No.	10Pk Price
1/2"	1/8"	Medium	A-SE1M	\$5.80
1/2"	1/8"	Hard	A-SE1H	\$5.80
5/8"	3/16"	Medium	A-FB4	\$5.60
3/4"	1/8"	Medium	A-SE2M	\$7.50
3/4"	1/8"	Hard	A-SE2H	\$7.50
3/4"	1/4"	Medium	A-FB3	\$7.45
1"	1/8"	Medium	A-SE3M	\$9.90
1"	1/8"	Hard	A-SE3H	\$9.90

Sold Individually:

2"	3/8"	Medium	A-SE4M	\$4.50
3"	1/2"	Medium	A-SE5M	\$12.00

Screw and Tapered Mandrels Made in USA and Germany



Part Numbers and Prices are shown in red on each page.

Screw Type Mandrels

Part No.	Arbor Hole/ Shank	Capacity	Overall Length	Price Each	Max Speed
A-M1	3/32	1/16	1-3/4	\$1.25	40,000
A-M10	3/32	1/16	7/8	1.80	40,000
A-M13	3/32	1/16	1-7/8	2.30	30,000
A-M14	1/8	1/8	1-7/8	2.30	30,000
A-M8	1/8	1/4	1-11/16	5.80	20,000
A-M15	1/8	1/16	1-3/4	1.80	40,000
A-M19	1/8	1/16	1-7/8	2.30	30,000
A-M2	3/32	1/8	1-7/8	2.95	20,000
A-M6	1/8	1/16	1-3/4	1.80	40,000
A-M20	1/8	1/8	1-3/4	1.80	20,000
A-M83	1/8	1/8	2-1/8	2.30	20,000
A-M84	1/4	1/8	2-1/8	2.30	20,000
A-M85	1/4	1/4	2-1/8	2.30	20,000
A-M30	1/4	3/8	1-5/8	3.20	25,000

2" Velcro Hook Sanding Heads with 3/8" arbor holes, featured on page 31, can be mounted onto A-M30 & A-M31 mandrels for use in Foredom Handpieces.



Sandpaper Split Mandrels

These mandrels have slots for inserting and wrapping small pieces of sandpaper. 20,000 RPM Max Speed

Part No.	Head Dia	Slot Lgth x Width	Overall Length	Price Each	
A-M21	3/32	1/18	3/4 x 1/32	2-3/8	\$1.80
A-M22	3/32	5/32	3/4 x 1/32	2-3/8	1.80
A-M23	3/32	5/32	3/4 x 1/32	2-3/8	1.80
A-M24	3/32	3/32	3/4 x 1/64	1-3/4	1.25
A-M24LG	3/32	3/32	1/2 x 1/64	2-3/16	1.25
A-M26	1/8	3/16	3/4 x 1/32	2-3/8	2.00

Visit our website for sandpaper template



1/16 at tip

Maximum and Recommended Speeds vary depending on the type and size of the accessory as well as the mandrel in use.

Maximum speeds shown are based on a 1" overhang with an accessory that weighs under 1 gram and is smaller than 1/2" in diameter. As a general rule, smaller accessories and mandrels can be used at higher speeds than larger accessories and mandrels. It is a good idea to follow the recommendations that come with both the accessory and mandrel you are using.

Screwdriver A-PS83 \$4.50



5" long, double ended screwdriver fits many of the small size screws we use on mandrels, flex shaft motor connectors and other products. Has both flat blade and phillips tip and pocket clip.



unmounted felt bob on A-M7 mandrel

Tapered Mandrels

Part No.	Arbor Hole/ Shank	Capacity	Overall Length	Price Each	Max Speed
A-M12	1/8	1/8	1-3/4	\$1.80	40,000
A-M3	3/32	3/32	1-3/4	1.80	40,000
A-M9	1/8	3/32	1-3/4	1.80	40,000
A-M7	1/8	1/8	1-3/4	1.80	40,000
A-M78	1/8	3/16	2-3/8	3.90	20,000
A-M16	1/8	1/8	2-3/4	4.75	18,000
A-M89	1/4	3/8	2-1/2	11.00	18,000

NEW

Adapters for Mounting Accessories on to BL Lathe

These adapters are used to mount accessories onto the tapered spindles of Foredom's BL lathe. Use the A-4561 and A-4562 for 3M ScotchBrite Radial Bristle Discs and wheels with 3/8" arbor holes. The A-4568 is for mounting FX & other wheels with a 1" holes. 10,000 RPM Max Speed



Part No.	Side of Lathe	Arbor Hole	Price Each
A-4561	Right Hand Side	3/8	\$2.20
A-4562	Left Hand Side	3/8	\$2.20



Part No.	Side of Lathe	Arbor Hole	Price Each
A-4568	Both Sides	1	\$5.50

Rubber Drum Mandrels *Made in USA*

Part Numbers and Prices are shown in red on each page.

3/32" and 1/8" Shank

	Head Dia."	Head Length"	Total Length"	Max Speed RPM	3/32" shank Part No.	Price Each	1/8" shank Part No.	Price Each
	1/4	1/2	1-7/8	40,000	A-SD324	\$3.70	A-SD184	\$3.70
	1/4	1/2	2-1/4	15,000	A-SD40	\$4	Not Available	
	3/8	1/2	1-7/8	40,000	A-SD326	\$4	A-SD186	\$4
	1/2	1/2	1-7/8	40,000	A-SD328	\$4.40	A-SD188	\$4.60
	3/4	1/2	1-7/8	20,000	Not Available		A-SD189	\$4.60

1/4" Shank

	Part No.	Head Dia" x Length"	Price Each	Max Speed RPM
	A-SD141	1/2 x 1	\$5.90	20,000
	A-SD143	3/4 x 1/2	\$4.60	20,000
	A-SD144	3/4 x 1	\$4.70	15,000
	A-SD145	3/4 x 1-1/2	\$10	10,000

Includes wrench. 2-3/4 overall length



Micro Chucks and Collet Adapters

Micro Chucks A-M50 and A-MC2 hold various sizes drills and A-M53 holds 3mm rod accessories. Collet Adapters A-M52 and HPL4 part nos. are used to "step down" the collet size without having to actually change the collet in your handpiece. This is a great way to easily use a smaller diameter shank accessory quickly without any of the work involved with changing collets.

	Part No.	Shank"	Use With	Price Each
	A-M50	3/32	drills 70-80	\$6.40
	A-M53	3/32	3mm rods	\$3
	A-MC2	1/8	drills 60-80	\$17.50
	A-M52	3/32	1/16" shank friction grip burs	\$9

A-M50, A-M53, A-MC2 & 10,000 RPM Max Speed
A-M52 20,000 RPM Max Speed

Collet Adapters

\$16.30 Ea

Adapters fit inside existing collet and allow the use of smaller shank size accessories.

	HPL4-3233	3/32	3/32" to 1/16" shank accessories
	HPL4-3234	1/8	1/8" to 1/16" shank accessories
	HPL4-3235	3mm	3mm to 3/32" shank accessories
	HPL4-3236	1/8	1/8" to 3/32" shank accessories
	HPL4-3237	3mm	3mm to 1.6mm shank accessories

Left Hand Threaded Mandrels with 3/32" Shanks— For running in Reverse Operation

40,000 RPM Max Speed

The left handed threads on these mandrels hold accessories securely and self tighten while running in reverse in flex shafts and micromotors. They have notches on their shanks for easy identification. A-SD324L, A-SD326L and A-SD328L also have black left hand threaded screw tops.

	Part No.	Arbor Hole/ Capacity"	Overall Length"	Price Each
	A-M1L	1/16	1-3/4	\$2.30
	A-M7L	1/8	1-3/4	\$1.80
	Part No.	Head Dia"/ Length"	Overall Length"	Price Each
	A-SD324L	1/4 x 1/2	1-3/4	\$8
	A-SD326L	3/8 x 1/2	1-3/4	\$8
	A-SD328L	1/2 x 1/2	1-3/4	\$8

Rubber Sanding Disc Mandrels *Made in USA*

Run in Forward Direction ONLY

Part Numbers and Prices are shown in red on each page.

Part No.	Shank Dia. "	Overall Length "	Max Speed - RPM	Price Each
A-M4	1/8	1/2	15,000	\$5
A-M338	1/8	1-3/4	10,000	\$9.50
A-M33	1/4	1-3/4	10,000	\$9.50
A-M335	1/4	1-3/4	10,000	\$9.50
A-M34	1/4	2-3/4	10,000	\$10
A-M36	1/4	1-3/4	18,000	\$6.30

1/4-20 thread

Screw-Lok (plastic). See page 29 for accessories

Hook & Loop Add Ons Turn 2" Disc Mandrels 'Velcro® Friendly'

A-10040 Discs with Velcro **Hook** on one side & PSA on the other and A-10041 Discs with Velcro **Loop** on one side & PSA on the other are needed to adhere and re-use 2" PSA backed Sanding Discs (see pages 31-32) with A-M338, A-M33 and A-M335 Mandrels.

Here's How it's Done:

1. Remove the psa covering from a A-10040 Velcro® Hook Disc and press the sticky side down onto the mandrel surface.
2. Remove the psa coverings from a A-10041 Velcro® Loop Disc and any 2" Sanding Disc and stick together. (You will want to dedicate a Loop Disc for every Sanding Disc, so be sure to keep a good supply on hand. PSA backings do not retain enough sticking power if separated for use with other Discs.)
3. Now join the Velcro loop surface on the back side of the Sanding Disc to the Mandrel's Velcro Hook surface. It's that easy!

A-10040-5
(5Pk) **\$5.70**

A-10040-25
(25Pk) **\$26**



A-10040
Velcro Hook



A-10041
Velcro Loop

A-10041-5
(5Pk) **\$4.20**

A-10041-25
(25Pk) **\$17**

Mandrels, Hubs, and Arbor for Mounting Accessories to Angle Grinder:

These special mounting tools are used to attach 2" Sanding and Grinding accessories onto Foredom's Angle Grinder Attachment for the H.30 Handpiece. See pages 28 - 32. *Maximum Speeds vary depending on the type and size of the accessory.*



A-69222 \$6
2" Velcro Hook
Backed Rubber
Disc Mandrel
8mm x 1mm thread

For mounting PSA
Sanding Discs with
A-40041 Velcro Loop
backed PSA Discs



A-69225 \$5
2" Screw-Lok
Plastic Disc
Mandrel

Screws onto Angle
Grinder. Has threaded
hole for attaching discs
with plastic screw
backings. See page 29



A-69212 \$4
Short Hub
Includes 8mm Hex
Screw UA690

Short and Long Hubs are used for mounting
Radial Bristle Discs and Grinding Wheels



A-69212L \$4
Long Hub
Includes 14mm Hex
Screw UA691



A-69223 \$5
Sanding Disc
Arbor
8mm x 1mm thread

For mounting Quick
Change Sanding Discs
See page 30

3M Wet/Dry Micron Graded Polishing Papers



\$21.60
Per 10Pk of
8-1/2" x 11"
Sheets

Polishing paper is a soft cloth-like material for use on any contoured surface with or without water. Working in sequence from the most coarse to the finest sheet brings the best results. 8-1/2" x 11" sheets come in six micron grades in packs of 10 per grit. Papers can be cut lengthwise into 1-1/2", 1", 3/4" or 1/2" wide strips, taped, and made into rolls for use on Finger Sanders and Sanding Sticks. Papers can also be cut into much smaller pieces, wrapped and glued for use on split mandrels, see page 18.

Part No.	Grade	Grit	Color
A-5968-10	1 micron	10,000	white
A-5967-10	2 micron	6,000	aqua
A-5966-10	3 micron	4,000	pink
A-5964-10	9 micron	1,200	lt. blue
A-5963-10	15 micron	800	gray
A-5962-10	30 micron	400	green

AK5960 \$12.80

6-Pc Assort Pack of 8-1/2" x 11" Sheets— 1 of each grade

Z-37-959 \$13

Super Bond Film Tape 1" x 36 yards— Use for making belts for hand sanders

Assortment Kits

General Use— AK20, AK21 & AKHK10

AK20 \$53 35-Pc Kit

3/32" & 1/8" Shanks

Total Value Over \$59

35Pc Assortment contains steel cutters and burs, mounted points, wire and bristle brushes, rubber bonded abrasives, sanding drums and felt bobs. *20,000 RPM Max Speed*



AK21 \$145 88-Pc Kit

3/32" & 1/8" Shanks

Total Value Over \$152

88-Pc Assortment comes packed in our General Applications Kit K.2272. Contains some of our most unique rotary accessories: Ceramic Purple Abrasive Bands, V Stone Mounted Abrasives, and CeramCut Blue Stones. Also plated diamond points, steel cutters, aluminum oxide points, rubber bonded abrasive wheels, wire and bristle brushes, felt buffs and bobs, tube of red polishing rouge, various mandrels. *20,000 RPM Max Speed*



AKHK10 \$39 10-Pc Kit

1/8" Shanks

Total Value Over \$42

10-Pc Assortment includes 3 CeramCut Blue Stones, 2 carbide burs, 2 mounted felt bobs, sanding band and sanding drum mandrel, screw type mandrel. *20,000 RPM Max Speed*



Dental Lab

AK3361 \$135 30-Pc Kit

Total Value Over \$140

30-Pc Kit for polishing Valplast®, Flexite®, and other nylon denture materials. The larger diameter accessories are for use on the tapered spindle of Foredom's BL Lathe. Includes: 6Pks of 3" Scotch-Brite Radial Bristle Discs in 80, 220, 400, & 14,000 grit. Also 3" cotton buff, 2 right & 2 left side spindle adapters, and bar of platinum white polishing compound. *7,000 RPM Max Speed*



Woodcarving

AK22 \$355 Frank Russell Kit, 33-Pc 3/32", 1/8", 1/4" Shanks Total Value Over \$395

33-Pc Kit contains the burs Frank Russell uses in his DVD, "Fur, Feathers and Fins". According to Frank, these are the ones needed for any carving you can hold in your hand. Dominated by Foredom's exclusive Typhoon® carbide burs in coarse and fine grit, the kit includes 13 Typhoons in 1/4", 1/8", and 3/32" shank, 8 Ceramcut Blue Stones, 3 plated diamonds, 1 vanadium steel cutter, 1 carbide bur, 3 ruby carvers, and sandpaper split mandrel. Also, 2" fine bristle nylon brush with tapered mandrel and rotating bur and tool holder.

25,000 RPM Max Speed, 10,000 RPM on 1/4" Typhoons.



AK23 \$180 Frank Russell Basic Kit, 22Pc 3/32", 1/8", 1/4" Shanks. Total Value Over \$199

22-Pc Kit is a scaled down version of AK21 above. Includes 2-1/4", 2-1/8", and 1-3/32" shank Typhoons, 7 Ceramcut Blue Stones, 4 plated diamonds, 3 ruby carvers and a steel cutter. Also, 2" fine bristle nylon brush with tapered mandrel. *25,000 RPM Max Speed, 10,000 RPM on 1/4" Typhoons.*

Bench Lathe Polishing & Sanding Kits

Jeweler, craftsman and Foredom demonstrator, Wayne Werner, developed these Kits for use with our BL Lathe:

AK3371 \$245 Wayne Werner Polishing Kit, 57-Pc Total Value Over \$263

57-Pc Kit to pre-polish and polish precious metals, finish pewter, and white metals. Also remove scratches and sprue marks, clean insides of rings and solder joints. Includes—2 ea. of 3" Soft Cotton and Square Edge Felt Buffs, Bars of Platinum Blue & White Compound, 6 ea. of 3" Scotch-Brite Radial Bristle Discs in 80, 120, 220, 400, 1,200, 3,000 and 14,000 grits, and 9 Tapered Spindle Adapters for right & left side mounting. *7,000 RPM Max Speed*



AK3375 \$80 Wayne Werner Sanding Kit, 28-Pc Total Value Over \$86

28-Pc Kit for use with the collet holder with 1/4" collet installed that comes in our K.3340 Bench Lathe Kit. These bands and discs are some of Wayne's favorite products! Contains 3 ea. of 1/2" x 1" Trizact Sanding Bands and 2 ea. of 3" Trizact Sanding PSA Discs in 400, 600, 1,200 & 2,500 grits. Also 4 ea. of 1/2" x 1" Sanding Drum Mandrels with 1/4" shanks & 3" Dia. Disc Mandrels. *10,000 RPM Max Speed*



We reserve the right to substitute comparable accessories when necessary.

Step, Twist & Carving Drills- Industrial Grade

Step Drills



3/32" (2.35mm) Shank 30,000 RPM Max Speed
45mm (1.8") Overall Length

Ordering Drills: Order Steel Step (at right) & Twist Drills (below) by Wire Gauge Size. Order Cobalt Steel and Diamond Plated Step Drills by metric sizes of head diameters. Also, Wire gauge sizes are precise for Cobalt Steel and Steel Drills. Decimals shown in chart below are equivalents of wire sizes and metric values are for reference only.

Wire Gauge	Decimal " Equivalent	Metric (mm) Equivalent
80	.0135	0.343
79	.0145	0.368
78	.0160 (1/64)	0.406
77	.0180	0.457
76	.0200	0.508
75	.0210	0.533
74	.0225	0.572
73	.0240	0.610
72	.0250	0.635
71	.0260	0.660
70	.0280	0.711
69	.0292	0.742
68	.0310	0.787
67	.0320 (1/32)	0.813
66	.0330	0.838
65	.0350	0.889
64	.0360	0.914
63	.0370	0.940
62	.0380	0.965
61	.0390	0.991
60	.0400	1.016
59	.0410	1.041
58	.0420	1.067
57	.0430	1.092
56	.0465	1.181
55	.0520	1.321
54	.0550	1.397
53	.0595	1.511
52	.0635	1.613
51	.0670	1.702
50	.0700	1.778
47	.0785	1.994
45	.0820	2.083
40	.0980	2.489
36	.1065	2.705

Steel Step Drills \$2.65 Ea

Made from hardened tool steel. Use for drilling all types of wood, precious metal, mild steel, bone, and mother of pearl.

Wire Gauge Size	Head Lgth mm	Part No.
76	8.5	A-58005P
73	8.5	A-58006P
70	8.5	A-58007P
65	8.5	A-58009P
61	8.5	A-58010P
57	10.5	A-58011P
54	10.5	A-58014P
53	11.0	A-58015P
47	11.0	A-58020P
44	11.0	A-58022P

Cobalt Steel Step \$8 Ea NEW

Drills are solid cobalt steel and outlast high speed steel (HSS) bits 15 to 1. Drills with * are in Kit AK8000 below.

Head Dia. mm's	Head Lgth mm	Part No.	Head Lgth mm	Part No.
.5	10.0	A-8005*		
.6	10.0	A-8006		
.7	10.0	A-8007*	10.0	A-8107
.8	10.0	A-8008	10.0	A-8108
.9	10.0	A-8009*	10.0	A-8109
1.0	10.0	A-8010	10.0	A-8110*
1.1	10.0	A-8011*	10.0	A-8111
1.2	10.0	A-8012*	10.0	A-8112
1.3	Not Available		10.0	A-8113*
1.4	10.0	A-8014*	10.0	A-8114*
1.5	10.0	A-8015	10.0	A-8115
1.6	10.0	A-8016*	10.0	A-8116*
1.7	10.0	A-8017	10.0	A-8117
1.8	10.0	A-8018*	10.0	A-8118*
2.0	10.0	A-8020*	10.0	A-8120
2.1	10.0	A-8021	10.0	A-8121*
2.2	10.0	A-8022*		
2.3	10.0	A-8023		

Diamond Plated Step \$7.40 Ea NEW

Drills feature excellent balance, precision and consistent diamond coverage. Drills with * are in Kit AK8100 below. Equivalent wire gauge sizes are approximate.

Head Lgth mm	Part No.
	Not Available

Steel Carving Drills \$18.50 Ea

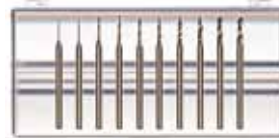
Made in USA
25,000 RPM Max Speed

Premium tapered carving drills made of high tempered steel with three flutes. Designed for internal carving and shaping of wood, acrylic and plastic.

1/16" shank A-CD1

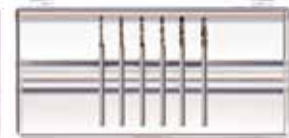
3/32" shank A-CD2

1/8" shank A-CD3



10-Pc Cobalt Kit

AK8000 \$78 Includes: A-8005, A-8007, A-8009, A-8011, A-8012, A-8014, A-8016, A-8018, A-8020, and A-8022.



6-Pc Diamond Plated Kit

AK8100 \$46 Includes: A-8110, A-8113, A-8114, A-8116, A-8118 and A-8121.

NEW Twist Drills

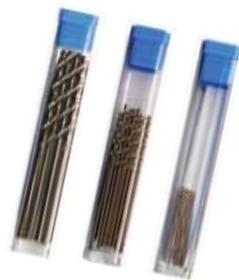
Order by Wire Gauge Sizes 36 – 80 20,000 RPM Max Speed

Cobalt Steel Twist Drills \$12.50/10Pk

Wire Gauge Size	Part No.	Wire Gauge Size	Part No.	Wire Gauge Size	Part No.
50	A-8350	60	A-8360	70	A-8370
51	A-8351	61	A-8361	71	A-8371
52	A-8352	62	A-8362	72	A-8372
53	A-8353	63	A-8363	73	A-8373
54	A-8354	64	A-8364	74	A-8374
55	A-8355	65	A-8365	75	A-8375
56	A-8356	66	A-8366	76	A-8376
57	A-8357	67	A-8367	77	A-8377
58	A-8358	68	A-8368	78	A-8378
59	A-8359	69	A-8369	79	A-8379
				80	A-8380

Diamond Plated Twist Drills \$22/5Pk

Wire Gauge Size≈	Part No.
36	A-8236
40	A-8240
45	A-8245
47	A-8247
50	A-8250
51	A-8251
52	A-8252
53	A-8253
54	A-8254
56	A-8256
61	A-8261
65	A-8265



Cobalt Twist Drills



Diamond Plated Twist Drills

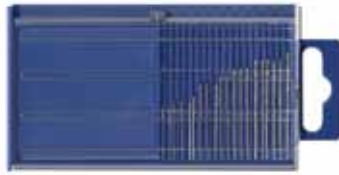
Plated Diamond Twist Drills wire gauge sizes are approximate.

Twist Drills– Standard Grade

20-Pc Diamond Twist Drill Set AK2061 \$16.30

Diamond coated, wire gauge twist drill set in plastic dispenser. These straight shank drills are made of high quality steel with diamond coating.

Set contains one each of drills #61 to #80 See Chart on previous page



Use any of these twist drills in small pin vises that hold wire gauges or in a rotary handpiece with A-M50 and A-MC2 micro chucks, see page 19.

Two High Speed Twist Drill Sets – Wire Gauge Size and Metric Sets

20-Pc High Speed Steel Twist Drill Set

Z-37-150 \$16.30

Miniature drill set in plastic dispenser with one each of high speed twist drills in wire gauge sizes #61 to #80



20-Pc Metric High Speed Steel Twist Drill Set

Z-37-151 \$16.30

Miniature twist drill set in plastic dispenser with one each of high speed twist drills in metric sizes from 0.3mm - 1.6mm. Includes: 0.3, 0.35, 0.4, 0.45, 0.5, 0.55, 0.6, 0.65, 0.7, 0.75, 0.8, 0.85, 0.9, 0.95, 1.0, 1.2, 1.3, 1.4, 1.5, and 1.6.

Speed Recommendations:

Drilling speeds should be between 500 and 10,000 rpm. All drilling should be done with a lubricant. The harder the material (metal) to be drilled and the larger the hole size, the slower the drill speed.

Material	1mm (1/16") Drill	2.35mm (3/32") Drill
Aluminum	7,000-8,000	5,000-6,000
Mild Steel	3,000-3500	2,000-3,000
Stainless Steel	1,000-2,000	500-1,000
Brass, Silver, Copper	5,500-6,500	4,000-5,000

Diamond Hones, Dressing Stone, Wet Stick, Abrasive Cleaner, Brass Brush *Made in USA*

Diamond Hones

Dress and reshape mounted abrasive points by lightly touching a rotating point to the diamond surface. Also for hand smoothing and shaping glass, metal, stone, bone, and plastic. Use for sharpening chisels & steel instruments. 3/4" x 2" diamond pad on 6" plastic color coded handle.



Part No.	Price Ea	Diamond Hone	Grit
A-10342	\$9.20	Superfine (blue)	1200
A-10343	\$9.20	Fine (red)	600
A-10344	\$9.20	Medium (purple)	400
A-10345	\$17.00	Coarse (black)	250



A-AC1 \$7.90

Abrasive Cleaner

Removes material from around Typhoon points. Restores clogged sanding bands and discs, cartridge rolls, and other abrasives. Use it like a giant eraser by holding the accessory against the block while running to remove embedded grinding debris. 3" x 3" x 1-1/2"

NEW Diamond Needle File Sets



Fine Point Set

Fine Point 5-Pc Set

A-F37352 \$18.50

Provides aggressive yet precise shaping on glass, metal, ceramics, marble, wood, plastics, stone, bone etc. Includes one each Round Taper, Triangle Taper, Square Taper, Larger Round Taper, and 1/2 Round Taper.

Needle File Sets come packed in a sturdy reusable plastic case.



Flat Shape Set

Flat Shape 5-Pc Set

A-F37354 \$18.50

Provides aggressive yet precise shaping for any hobby on glass, metal, ceramics, marble, wood, plastics, stone, bone etc. Shapes included are Triangle Taper, Flat Taper, Flat, Knife Taper, and Oval Taper.



A-4005 \$2.75

Wet Stick

Use wet for unloading plated and sintered diamond points. 320 grit. 2" x 1/2" x 3/4".



A-10333 \$8.20

Dressing Stone, 60 grit

Silicon carbide block allows you to reshape mounted abrasives back to perfect concentricity by running in the groove comparable to head size. Cleans and exposes fresh abrasive particles. 3-3/8" w x 1-1/4" d x 1/2" h.



Brass Brush

A-HB58 \$4.80

Use to clean Typhoon burs, sanding sleeves and discs. It easily removes dust or chips from between rows of carbide points. Overall–5/8" wide x 5-3/4" long. Bristles–3/8" wide x 1-3/4" long x 5/8" high.

High Speed Steel Cutters

Made in USA. 45,000 RPM Max Speed

Superior quality high speed steel cutters for shaping, grooving, slotting and cutting in wood, plastic and soft metal.

1/8" (3.18mm) Shank Priced Below



A-7104	A-7106	A-7112	A-7113	A-7122	A-7143	A-7145	A-7153	Part No.
3/16	5/16	1/8	5/16	5/16	1/4	3/8	3/8	Head Dia."
3/16	5/16	1/4	3/8	13/32	15/32	9/16	1/16	Head Lgth"
\$9.25	\$10.40	\$8.10	\$10.40	\$10.40	\$10.40	\$10.40	\$10.40	Price Each

High Speed Steel Fluted Engraving Burs

Made in Switzerland. 100,000 RPM Max Speed

2.35mm (3/32") Shank 1-3/4" Overall Length \$1.40 Ea

Ball A-R2	Ball A-R5	Ball A-R7	Inv Cone A-P3	Inv Cone A-P7
1/32 (.79)	1/16 (1.6)	3/32 (2.35)	1/32 (.79)	3/32 (2.35)
1/32 (.79)	1/16 (1.6)	3/32 (2.35)	3/64 (1.19)	5/64 (1.98)

5Pc Kit AK65 \$5.75
A-R2, A-R5, A-R7, A-P3, A-P7
For etching, engraving, and other fine detailing on metal, wood, glass, ceramics, etc.

Shape
Part No.
Head Dia." (mm)
Head Length" (mm)

Latch Type Burs for Discontinued Angle Head Handpieces H.55A, H.55D, H.56A, H.56D

Made in USA. 35,000 RPM Max Speed



Silicon Carbide (Green)
\$2.60 Ea

A-RA31	A-RA41	A-RA42	A-RA51	Part No.
1/8	1/4	3/16	1/4	Head Dia."
1/4	7/64	3/16	5/16	Head Lgth"
150	150	120	150	Grit



Aluminum Oxide (Red)
\$2.60 Ea

A-RA11	A-RA12	A-RA21	Part No.
1/4	3/16	1/4	Head Dia."
7/64	3/16	5/16	Head Lgth"
120	100	120	Grit

Miniature Carbide Burs

Made in Germany and Belgium. 100,000 RPM Max Speed

2.35mm (3/32") Shank, 1-3/4" Overall Length Priced Ea & 6Pk

A-212*	A-215*	A-217*	A-201**	A-220*	A-230*	A-202**	A-203*	A-208*	A-240	A-204*	A-207*	A-205*	A-206*	A-TR-5C
\$7.60	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$4.70	\$21.00
A-212-6	A-215-6	A-217-6	A-201-6	A-220-6	A-230-6	A-202-6	A-203-6	A-208-6	A-240-6	A-204-6	A-207-6	A-205-6	A-206-6	NA
\$40	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	NA
.2	.5	.7	.79	1.0	2.1	2.35	1.19	1.6	2.35	1.6	1.6	1.19	1.6	2.35
.2	.4	.5	.5	.8	1.9	2.1	4.37	1.6	1.6	4.37	4.37	3.97	3.97	6.35
							Taper	Inverted Cone		Cylinders		Ball Nose		Tree Pt
							Shape							Shape
							Part No.							Part No.
							Ea							Ea
							Price Ea							Price Ea
							Part No.							6Pk
							Price/6Pk							Price/6Pk
							Head Dia. mm							Head Dia. mm
							Head Lgth mm							Head Lgth mm

* Asterisk indicates burs included in Kit AK211 * Asterisk indicates burs included in Kit AK200

AK211 \$33
7-Pc Kit
Miniature Carbidés
Balls Burs—2.35mm shanks. Shown with *
One each A-212, A-215, A-217, A-201, A-220, A-230 & A-202. Comes in small round bur stand.

AK200 \$35
8-Pc Kit
Miniature Carbidés
2.35mm shanks
Shown with *
One each of A-201, A-202, A-203, A-204, A-205, A-206, A-207, A-208. Comes in small round bur stand.

AK210 \$64
14-Pc Kit
Miniature Carbidés
2.35mm shanks
One each of all miniature carbides except does NOT include A-TR-5C. Comes in small round bur stand.

Tungsten Carbide Burs *Made in USA*

Tungsten Carbide Burs are used for easy material removal and leave a smooth finish. They are ideal for use on hard wood and most metals including stainless steel, steel alloys, cast iron, etc. *100,000 RPM Max Speed for 1/8" and smaller head diameter carbides, 35,000 RPM Max Speed for 1/4" head diameter carbides.*



1/8" (3.18mm) Shank **Priced Below**

Ball		Cone		Cylinder Square			Cylinder Radius			Shape Part No. Head Dia." Head Length" Overall Length" Price Each
A-B-1	A-B-2	A-CO-2	A-CO-3	A-CP-1	A-CP-2	A-CP-3	A-CR-1	A-CR-2	A-CR-3	
1/8	1/4	1/8	1/4	3/32	1/8	1/4	3/32	1/8	1/4	
1/8	1/4	5/8	5/8	7/16	9/16	1/2	7/16	9/16	1/2	
1-17/32	1-3/4	1-1/2	2-3/16	1-1/2	1-1/2	2-1/16	1-1/2	1-1/2	2-1/16	
\$10.90	\$15.45	\$10.90	\$15.45	\$10.90	\$10.90	\$15.45	\$10.90	\$10.90	\$15.45	

Flame		Inverted Cone		Oval		Tree Point			Tree Radius		Shape Part No. Head Dia." Head Length" Overall Length" Price Each
A-F-1	A-IC-1	A-IC-2	A-OV-1	A-OV-2	A-TP-1	A-TP-2	A-TP-3	A-TR-2	A-TR-3		
1/8	1/8	1/4	1/8	1/4	1/8	1/8	1/4	1/8	1/4		
1/4	3/16	1/4	7/32	3/8	1/4	3/8	1/2	1/2	1/2		
1-17/32	1-1/2	1-13/16	1-17/32	1-29/32	1-1/2	1-1/2	2-1/32	1-1/2	2-1/32		
\$10.90	\$10.90	\$15.45	\$10.90	\$15.45	\$10.90	\$10.90	\$15.45	\$10.90	\$15.45		

Rotating Bur & Tool Holders *Made in USA*

A-10082 \$16.50 Rotating Bur and Tool Holder— For 1/8" and 1/4" Shank Burs, Drill Bits 1/16"– 5/32".

Organizes up to 112 accessories. Stores: 92– 1/8" shank & 13–1/4" shank burs. Has 7 marked holes for drill bits 1/16" to 5/32". 3" deep x 2-3/4" dia. center cup holds small tools such as files and screwdrivers. **Measures:** 6-1/2" wide x 4" high (165 x 102mm). Burs not included.



A-10080 \$16.50 Rotating Bur and Tool Holder— Universal—For ALL Size Shanks. Organizes 126 accessories with 1/16", 3/32", 1/8", and 1/4" shanks.

Measures: 6-1/2" wide by 4" high (165 x 102mm) and holds 69– 3/32" or 1/8" burs (in 2-step holes), 12–1/4" burs, and 45– 1/16" burs. Burs not included.



A-10081 \$16.50 Rotating Bur Holder— For 3/32" (2.35mm) Burs and Small Tools.

Stores and organizes 114– 3/32" burs. **Measures:** 6-1/2" wide by 4" high (165 x 102mm) and has a center cup (3" deep x 2-3/4" dia.) to hold small tools such as files, scribes & screwdrivers. Burs not included.



Small Bur Holders with Covers

A-10089 \$4 Small Square Bur Holder—For 3/32" (2.35mm) & 1/8" Burs. Holds up to 52 burs: 34–3/32" and 18– 1/8" shank accessories. **Measures:** 2-1/2" (64mm) sq. x 2-1/4" (54mm) high. Holds burs up to 2" long. Includes clear cover. Burs not included.



A-10088 \$4 Small Round Bur Holder— For 3/32" (2.35mm) & 1/8" Burs. Holds up to 48 burs with 24 holes for each size shank. **Measures:** 2-1/8" in dia. x 2-1/2" high (54 x 64mm). Holds burs up to 2" long. Includes clear cover. Burs not included.

