

DATA SHEET

SAFETY CUTTERS



Hawkeye Safety Cutters are available in two sizes for many uses. The primary use is for trimming and cutting of fiberglass. The wheel design makes it possible to cut exotic shapes with ease.

The safety design of these cutting tools makes it extremely difficult to sustain any injury while using these tools. We have found many and varied uses for these tools.

Hawkeye replacement blades are available for these tools.

NOTE: Technical information furnished by HAWKEYE is based on laboratory findings and is believed to be correct. No warranties of any kind are made except that materials supplied are HAWKEYE standard quality. All risk and liability arising from handling, storage and use of HAWKEYE products, as well as compliance with applicable legal restrictions rests with the buyer.

DATA SHEET

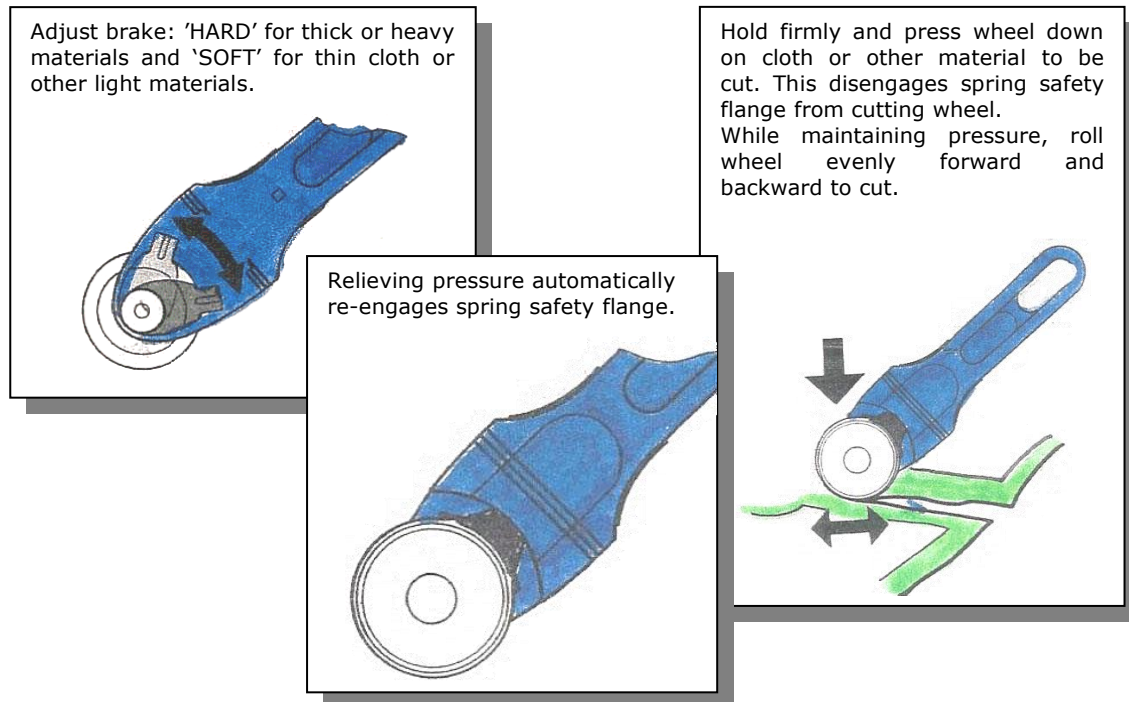
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Hawkeye replacement blades are also available for these tools.

DIRECTIONS FOR USE



HAWKEYE

INTERNATIONAL, LTD.

5760 VT Route 100
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Tel: 802 635 7500 • Fax: 802 635 7900
E-Mail: ckelley@hawkeyeintl.com
Web site: hawkeyeintl.com

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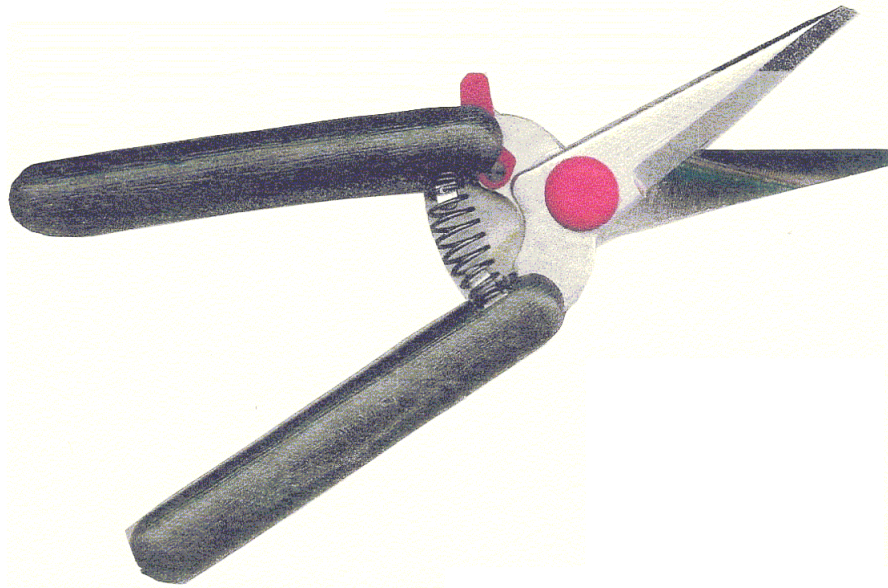
HK S1 CUTTING SHEARS56

Hawkeye Shears have been developed specifically for the cutting of Kevlar® and Kevlar® related material.

These shears have been designed for easy handling and long life. The handles of the shears will not “melt” in cleaning solutions, as will other shears.

Hawkeye can also provide your company with sharpening tools for the shears.

®Registered Trademark



DATA SHEET

HK526H SHEARS

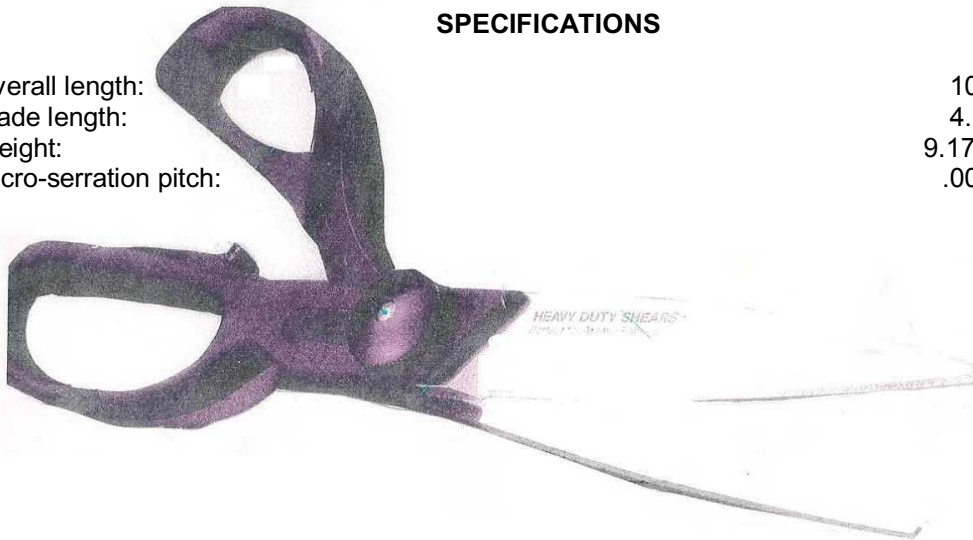
HK526H Shears have shown amazing cutting performance. After cutting through an aramid fabric tape (K281, 1140 denier, thickness; 0.25mm width; 30mm density; 17/17) over 500,000 times, the shears lost none of its properties. This and the other unique properties of this shears make them, quite simply, the best shears on the market.

The aluminum die-cast grips are slightly thicker than usual for fatigue-free use. The specially designed handle can be used by both left and right hands.

The unique micro-serration on the cutting edges can secure even the slickest fabrics for precision cutting. The pivot can be adjusted to any desired tightness. The newly developed Super-Hard Alloy has a hardness level HRC72, dramatically improving the durability.

SPECIFICATIONS

Overall length:	10.3" (262mm)
Blade length:	4.13" (105mm)
Weight:	9.17 oz (260 gm)
Micro-serration pitch:	.009" (0.25mm)

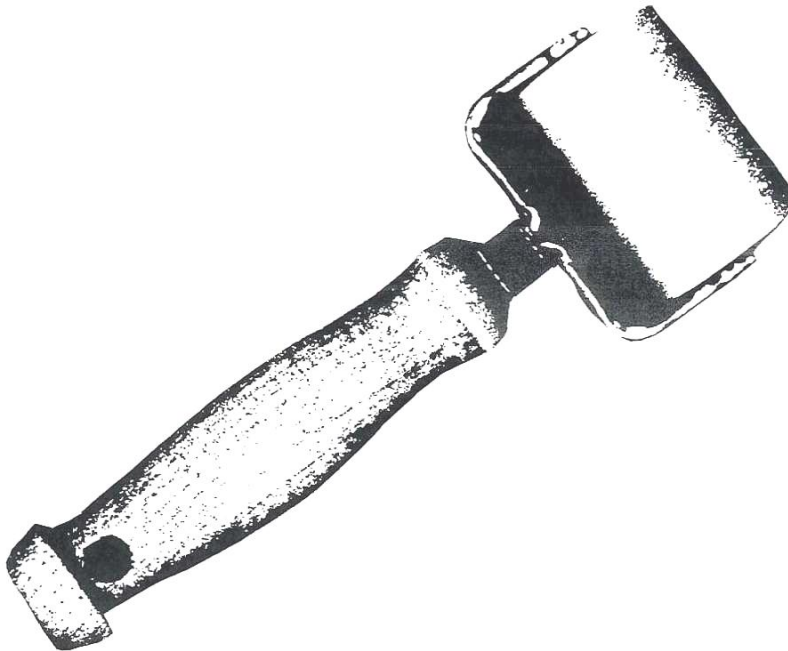


DATA SHEET

SEAM ROLLER

The Hawkeye seam roller is used to ensure proper adhesion between film, sealant and tool. It is constructed with a nylon roller, steel frame and wood handle.

By using the Hawkeye Seam Roller not only will you guarantee adhesion on your part, but you will save time and labor.



DATA SHEETS

SQUEEGEES

The Hawkeye squeegees are designed in various sizes and shapes to better facilitate rubbing out of wrinkles in pre-preg laminates by pushing material into corners. In this way excess resin is also removed at the same time. Hawkeye Squeegees do not contain Teflon®



DATA SHEET

HAWKEYE KNIFE



The Hawkeye Knives are available in two sizes. The primary use for the knives is for cutting fabrics and laminate stacks. The easy "snap off" design means no sharpening. The blades are easily replaceable.

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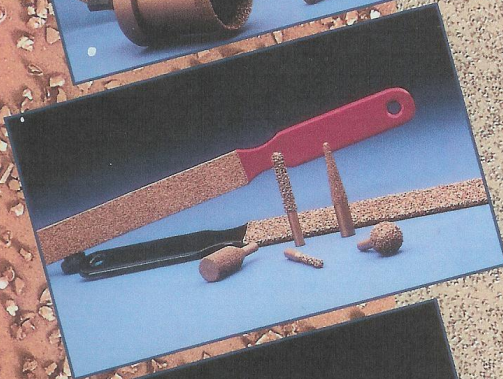
HAWKEYE

INTERNATIONAL, LTD.

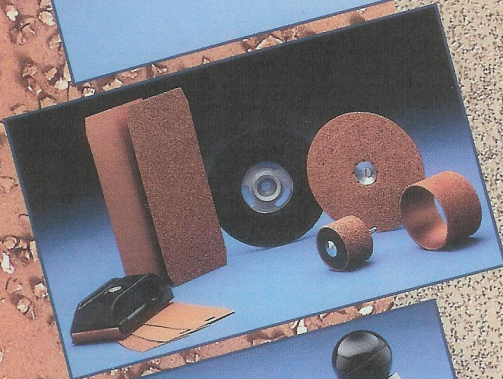
**Cutting Tools
and Abrasives
for Composite
Materials**



Cutting Products



Shaping Products



Sanding Products



Air Tools

Cutting Products

Circular Saw Blades

Cut faster and longer with Tunco's complete line of abrasive saw blades ...

- ✓ **General Purpose** Ideal for all-around cutting of composite materials.
- ✓ **Heavy Duty** Wider band of tungsten carbide grit on each side of cutting edge makes this a great blade for extremely hard and/or thick materials.
- ✓ **Slim Trim** Reduce kerf width by two-thirds and leave a finer edge finish with this blade. A medium grit is brazed to the outside diameter for fast cutting action. Tunco then applies 80-grit on each blade side. Highly recommended for cutting thin materials.
- ✓ **Razorback** If your small diameter/high rpm blades are creating excessive heat, Razorback offers an alternative. Available as a General Purpose or a Slim Trim blade, Razorback's slots permit blade expansion from high heat and create increased air flow for better heat dissipation.

All blades up to 4" diameter are compatible with high-speed air or electric portable saws and grinders. Use larger blades on portable circular saws, chop saws, and table saws.

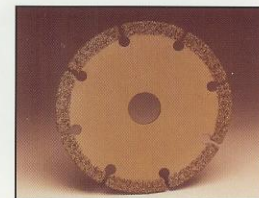
When ordering, specify desired cutting action by using the letter "B" for coarse (24-grit), "A" for medium (36-grit), or "C" for fine (60-grit). Other grit and arbor hole sizes available on special order. Contact factory. Also see page 5 for accessories.



General Purpose



Heavy-Duty



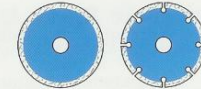
Razorback

Blade Diameter	Arbor Hole Diameter	General Purpose Part Number	Heavy Duty Part Number	Slim Trim Part Number	Razorback General Purpose Part Number	Razorback Slim Trim Part Number
1"	1/4"	15569	—	—	—	—
1 1/2"	1/4"	15570	—	15911	16281	16301
2"	1/4"	15571	—	15912	16282	16302
2"	3/8"	15575	—	—	—	—
2 1/2"	3/8"	16148	—	16149	16284	16304
2 1/2"	7/16"	16029	—	16283	—	—
3"	1/4"	15572	—	15913	16287	16307
3"	3/8"	15576	—	—	16285	16305
4"	3/8"	16018	—	16019	16288	16308
4"	5/8"	18545	—	—	18546	—
4"	3/4"	16020	—	15926	16289	16309
6"	3/8"	15556	15455	15906	—	—
7 1/4"	3/8"	17147	15456	15907	—	—
8"	3/8"	15557	15457	15908	—	—
10"	1"	15558	15549	15909	—	—
12"	1"	—	16064	15904	—	—

Cutting Products



Circular Blades



"Patented technology" on the cutting edge for today's composite materials. Tunco combines the durability of natural diamonds with the extreme sharpness of tungsten carbide grit for a longer-lasting, rapid-cutting blade ... at a *much lower cost* than the diamond-only products.

Available in Continuous Rim up to 12" and Razorback up to 4". Other arbor hole sizes also available. Contact factory.

When ordering, specify cutting action with the grit selection guide below. Just cross-reference your current diamond grit (mesh) size(s) with the Di-Carb designation(s). Also see page 5 for accessories.

Grit Selection Guide

Diamond Mesh (grit size)	Di-Carb Designation
30/40	F-7
40/50	G-7
50/70	H-7
60/80	I-7
150/180	K-7
200/230	N-7

Blade Diameter	Arbor Hole Diameter*	Continuous Rim		Razorback	
		Part Number		Part Number	
2"	1/4"	15571		16282	
	3/8"	15575		—	
2 1/2"	3/8"	16148		16284	
	7/16"	16029		16283	
3"	1/4"	15572		16287	
	3/8"	15576		16285	
4"	3/8"	16018		16288	
	3/4"	18545		18546	
6"	3/4"	16020		16289	
	1"	15556		—	
7 1/4"	3/8"	17147		—	
8"	3/8"	15557		—	
10"	1"	15558		—	
12"	1"	16064		—	

* U.S. Patent No. 5,271,547

Mounted Saws

For maximum accuracy and safety in high-speed cutting, Tunco's one-piece precision blades with integral shank are specifically designed for use with air grinders and routing tools. Specify cutting action when ordering with a letter "B" for coarse (24-grit), or "A" for medium (36-grit). Other saw configurations and grit sizes available on special order. Contact Factory.

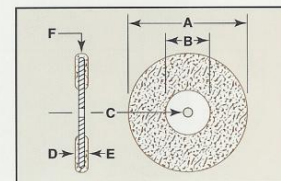
Blade Diameter	Shank Diameter	Cutting Depth	Part Number
1"	1/4"	1/4"	16069
1"	3/8"	1/4"	16118
1 1/2"	1/4"	7/16"	16070
1 1/2"	3/8"	7/16"	16119
2"	3/8"	7/16"	16120
3"	1/2"	3/4"	16121



Sander/Saw Blades

The ultimate in productivity. The Sander/Saw blade does both cutting and sanding. Use with either bench type or portable disc sanders, or circular saws. Other grit sizes and combinations available on special order. Contact factory.

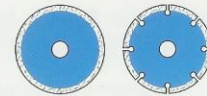
Diameter			Grit Size			Part Number
A	B	C	D	E	F	
8"	3"	3/8"	36	80	36	15453
10"	4 1/2"	1"	36	36	24	15454



Cutting Products



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Available in Continuous Rim up to 12" and Razorback up to 4". Other arbor hole sizes also available. Contact factory.

When ordering, specify cutting action with the grit selection guide below. Just cross-reference your current diamond grit (mesh) size(s) with the Di-Carb designation(s). Also see page 5 for accessories.

Grit Selection Guide

Diamond Mesh (grit size)	Di-Carb Designation
30/40	F-7
40/50	G-7
50/70	H-7
60/80	I-7
150/180	K-7
200/230	N-7

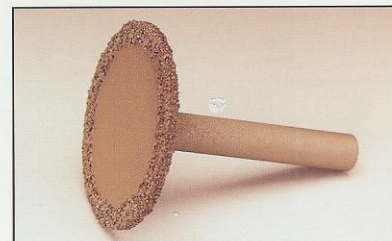
Blade Diameter	Arbor Hole Diameter*	Continuous Rim	Razorback
		Part Number	Part Number
2"	1/4"	15571	16282
	3/8"	15575	—
2 1/2"	3/8"	16148	16284
	7/16"	16029	16283
3"	1/4"	15572	16287
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6"	5/8"	15556	—
7 1/4"	3/8"	17147	—
8"	3/8"	15557	—
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12"	1"	16064	—

* U.S. Patent No. 5,271,547

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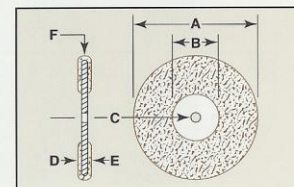
Blade Diameter	Shank Diameter	Cutting Depth	Part Number
1"	1/4"	1/4"	16069
1"	3/8"	1/4"	16118
1 1/2"	1/4"	7/16"	16070
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2"	3/8"	7/16"	16120
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The ultimate in productivity. The Sander/Saw blade does both cutting and sanding. Use with either bench type or portable disc sanders, or circular saws. Other grit sizes and combinations available on special order. Contact factory.

Diameter			Grit Size			Part Number
A	B	C	D	E	F	
8"	3"	3/8"	36	80	36	15453
10"	4 1/2"	1"	36	36	24	15454



Air Tools

Grinders



Model #18171

Lightweight body design with easy access throttle. Tools mount on a 3/8"-24 thread spindle, or use optional 3-jaw chuck. Chucks available in 1/4" (Part #18173) and 3/8" (Part #18174).



Model #18056

Reduce operator fatigue with this well balanced, lightweight, aluminum bodied unit. Accepts 1/4" arbors.



Model #18224

Tasks are accomplished more quickly with this high speed, heavy-duty model. Easily handles just about any job. Equipped with 1/4" collect.

Saws

Ergonomically designed, Tunco air saws feature a heavy-duty blade guard handle for two-handed operation and greater control during cutting. Guards are retractable with built-in guides and adjustable to vary cutting depth.

Model 18067 vacuum saw helps control harmful irritating dust in the workplace. I.D. of hose outlet is 1 1/4". Hose not included.

Both saws have heavy-duty rear exhaust motors, 3/8" arbors, and are shipped complete with a 4" Tunco General Purpose Blade with medium grit.



Model #18228



Model #18067

Air Tool Operation and Performance Specifications

	# 18171	# 18056	# 18224	# 18228 # 18067
RPM	20,000	22,000	23,000	23,000
Tool Size	6 1/2" x 1 1/4"	6 1/2" x 1 1/2"	7 3/4" x 1 3/4"	7 3/4" x 1 3/4" 6 1/2" x 6 1/4" (Guard)
Weight	1 1/2 lbs.	1 1/4 lbs.	1 lb., 15 oz.	4 lbs.
Exhaust	Front	Rear	Rear	Rear
Recommended Air Pressure	90 PSI Max.	90 PSI Max.	90 PSI Max.	90 PSI Max.
Air Consumption	4 CFM	12 CFM	15.2 CFM	15.2 CFM
Horsepower	.25 HP	.5 HP	.8 HP	.8 HP
Air Line Inlet	1/4" (NPTF)	1/4" (NPTF)	1/4" (NPTF)	1/4" (NPTF)
Lever Lock Throttle	YES	YES	YES	YES
Speed Regulator	NO	YES	YES	YES

Please Follow All Recommended Safety Precautions

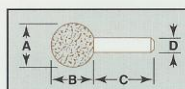
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Shaping Products

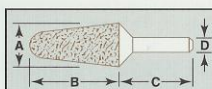
Rotary Burrs

Tungco Tungsten Carbide Grit burrs last many times longer than high-speed steel burrs for reduced downtime and tool costs. Ideal for flash removal, trimming, or routing. To specify grit surface when ordering, use letter "B" for coarse (24-grit), "A" for medium (36-grit), or "C" for fine (60-grit), in the part numbers below. Custom burr and router bit shapes also available to your specifications and dimensions. Contact factory.

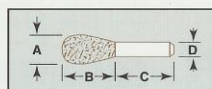
Part No.	Description	A	B	C	D
15579 15580	Round Nose	$\frac{1}{4}"$ $\frac{3}{8}"$	$1\frac{1}{2}"$	1"	$\frac{1}{4}"$ $\frac{3}{8}"$
15581 15582	Pointed Nose	$\frac{1}{8}"$	$1\frac{1}{2}"$	1"	$\frac{1}{4}"$ $\frac{3}{8}"$
15583 15584	Barrel Nose	$\frac{3}{8}"$ $\frac{3}{4}"$	1"	1"	$\frac{1}{4}"$ $\frac{3}{8}"$
15585	Needle Nose	$\frac{1}{8}"$	$1\frac{1}{4}"$	1"	$\frac{1}{4}"$
11941	Type 1: Tree-Radius End	$\frac{3}{4}"$	1"	1"	$\frac{1}{4}"$
11942	Type 2: Tree-Pointed End	$\frac{3}{4}"$	1"	1"	$\frac{1}{4}"$
11943	Type 3: Oval	$\frac{1}{2}"$	$\frac{7}{8}"$	1"	$\frac{1}{4}"$
11944	Type 4: Taper-Radius End	$\frac{3}{4}"$	$1\frac{1}{2}"$	1"	$\frac{1}{4}"$
11945	Type 5: Ball	$\frac{3}{4}"$	$\frac{3}{4}"$	1"	$\frac{1}{4}"$



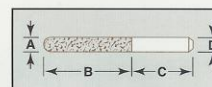
Ball



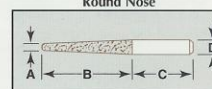
Taper-Radius End



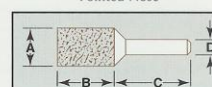
Oval



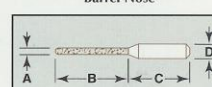
Round Nose



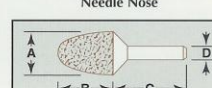
Pointed Nose



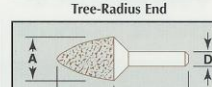
Barrel Nose



Needle Nose



Tree-Radius End



Tree-Pointed End

Hand Files

A must for any non-metallic filing or shaping . 14" overall length by 1" width. Comes with *easy-grip* plastic handle. Other grit sizes or combinations available on special order. Contact factory.

Description	Grit Size - Front/Back	Part No.
Combination	24/24	15578
Heavy-Duty	46/80	15923



Wheels

For fast and precise grinding, shaping or finishing specify sharp Tungsten Carbide Grit or our long-lasting *Di-Carb™* abrasive surface. Tungco provides in-house engineering and computer-aided design services along with the latest CNC machining technology to produce wheels to your exact specifications.

Complete reconditioning and re-coating services also available on your structurally sound, steel-based wheels. Contact factory for further details and pricing.

