



INDUSTRIAL & ABRASIVE BRUSH MANUFACTURER



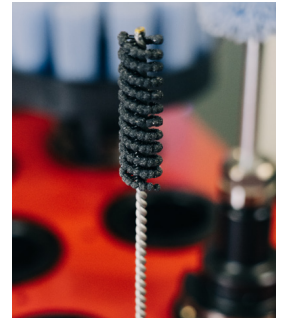
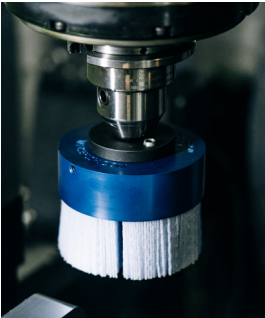
[TANISBRUSH.COM](https://tanisbrush.com)

WHY TANIS BRUSH?



Tanis is a leading manufacturer and supplier of industrial and abrasive brushes. We take pride in offering a wide selection of standard brushes that fit countless applications. If your project calls for special considerations, our team can work with you to adapt to your specifications.

We are committed to providing quality brush solutions backed by great service to achieve your performance needs.



ABRASIVE BRUSHES



Abrasive Brushes are constructed with nylon filament that contains an abrasive mineral grain. The strands are 'impregnated' with grit throughout the nylon to make the abrasive filament.

There are several types of abrasive filaments with different properties to accomplish a variety of abrasive functions from deburring, honing, and edge radiusing/blending to surface finishing, conditioning, polishing, and refurbishing.

TYPES OF ABRASIVE BRUSHES

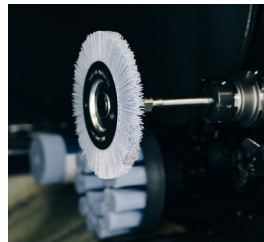
Disc Brushes



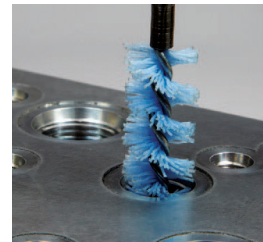
End Brushes



Wheel Brushes



Twisted Brushes



Bore-Hone™ Brushes



ABRASIVE FILAMENTS



CeramiX® is the most aggressive filament and contains an exclusive mineral grain from 3M™ that delivers unmatched deburring performance.



Silicon Carbide is a widely used abrasive grain due to its effective cutting action, polishing capacity, durability and cost.



Aluminum Oxide is preferred for finishing soft metals or other materials where a smooth finish is required.



Alumina Silicate is a fine grain abrasive filament well-suited for fine finishing and cleaning.



DIAMOND

Diamond is a super abrasive used for polishing, deburring and edge radiusing applications but comes at a higher price point.

POPULAR GRIT SIZES



120 grit is our recommended starting point for most applications.

	MORE AGGRESSIVE ←————→ LESS AGGRESSIVE							
ABRASIVE FILAMENT	GRIT SIZE							
	46	80	120	180	220	240	320	500
Ceramix	.065" x .080"	.040", .055"	.028", .040"	.035"	.022"		.022"	
	.068" x .090"	.045" x .090"						
Silicon Carbide	.060", .045"	.040", .050"	.022", .040"	.035"		.030"	.022"	.018"
	.070"	.045" x .090"						
Aluminum Oxide			.040"		.024"	.040"		

TRIM LENGTH & BRUSH DENSITY

A brush with a short trim length is rigid and used for high speed cutting.
Longer trim lengths are more flexible and used for conforming to irregular shaped surfaces.

UNMATCHED PERFORMANCE IN DEBURRING & SURFACE FINISHING WITH CERAMIX®

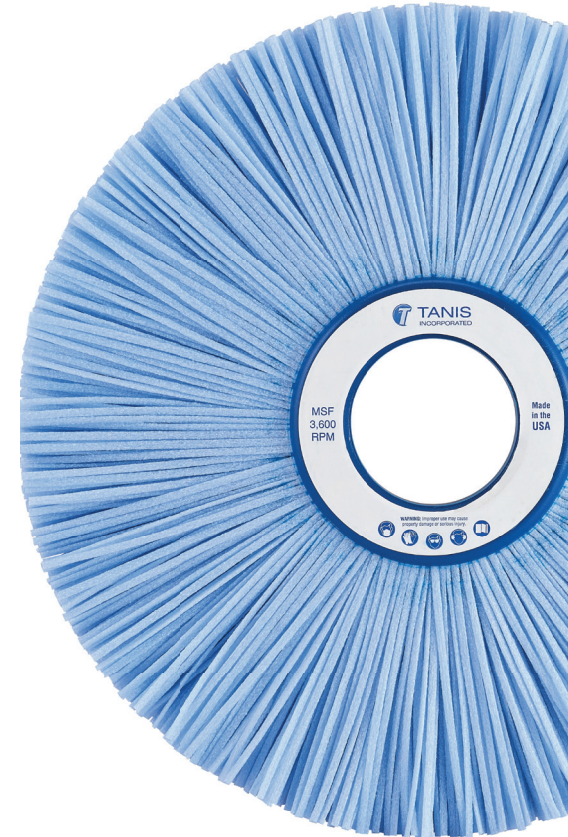


Tanis CeramiX® abrasive brushes deliver superior performance in application due to our industry-leading 3M™ Abrasive Grain.

Using CeramiX, our brushes perform up to **SIX TIMES BETTER** than silicon carbide in throughput and cutting action.

The 3M Abrasive Grain allows the filament to be self-sharpening, which means every time the strands strike the metal part the grain fractures creating sharper edges that blend, break the edges, and deburr faster and more efficiently.

With CeramiX, you get a longer lasting brush built for performance.



3M is a trademark of the 3M Company. CeramiX is a registered trademark of Tanis Inc.

INDUSTRY SPOTLIGHT ●●●●●



AUTOMOTIVE



AEROSPACE



HEAVY
CONSTRUCTION



MACHINING &
FABRICATION



SHIP BUILDING



OIL & GAS

DISC BRUSHES



Disc Brushes are ideal for flat part deburring, surface preparation and finishing, rust and scale removal, blending surface marks and edge radiusing on milled or machined parts.

Disc brushes are easily mounted and used in a variety of applications – CNC machining centers, robotic cells, 5-axis machines, automated machinery, and custom-designed equipment.

Dense Pattern Disc Brushes are effective for more aggressive brushing and removal of burrs.

Greater filament density is necessary to deburr parts faster and helps remove a range of burr sizes. More filament provides more mineral grain to deburr the part, delivering considerably more throughput.

PRO TIP - STARTING PARAMETERS

Recommended Depth of Penetration for Disc Brushes
is .075" to .100"

Recommended Surface Feed Rate is 30-40" per minute

Starting RPM range is 1,000 to 1,500*

*Subject to your application needs and brush size.



Dense Pattern

DISC BRUSHES



Choose our Tufted Pattern when you need filament flexibility to brush around features in the part such as bore holes and recessed areas that create edges. You still get the aggressive brushing action you need while efficiently achieving the goal of removing the burrs and sharp edges.



Tufted Pattern

Our Shell Mill disc brushes come with a built-in keyway that mount directly on a standard shell mill holder.



MINI DISC BRUSHES



Tanis Mini Disc Brushes are perfect for deburring and improving surface finish when your application calls for a tool with a smaller footprint or there are space constraints in the machine. They come standard in 2" & 3" diameters.

These small diameter discs feature a high filament density so abrasive cutting action is in full force. While performance is still at peak, depending on your part surface area and the size of the burrs you may need to increase the number of rotations to ensure the right finish is achieved.

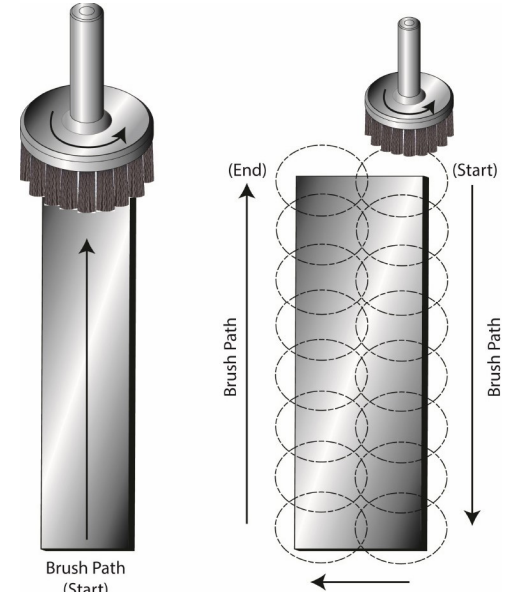
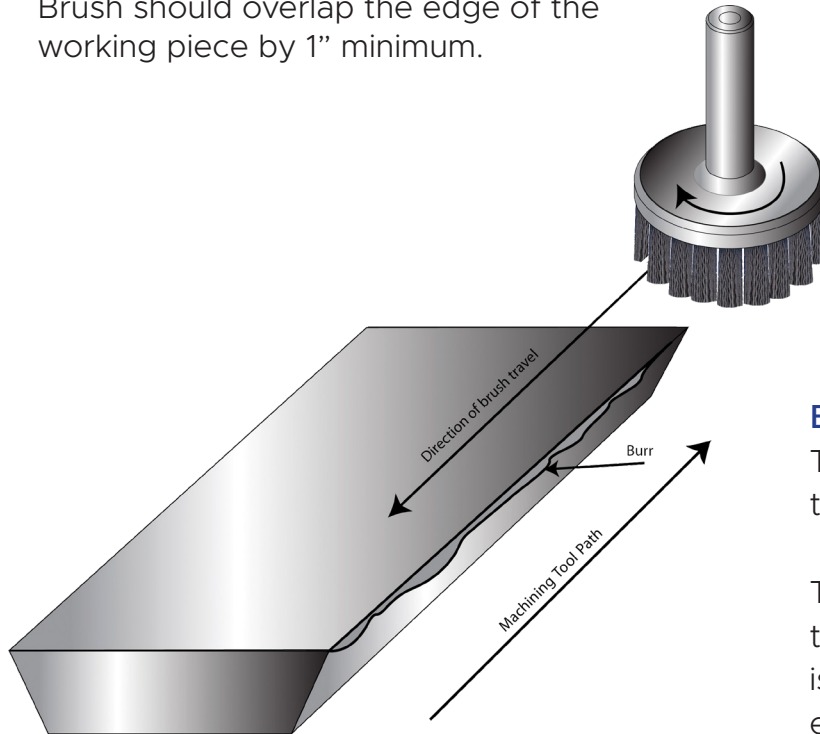
Remember to start brushing in the opposite direction of the cutting tool to remove any burrs created in the machining process.

OPTIMIZE YOUR DEBURRING PERFORMANCE

ROTATIONAL DIRECTION:

Brush should travel the opposite direction of the cutting tool that made the burr.

Brush should overlap the edge of the working piece by 1" minimum.

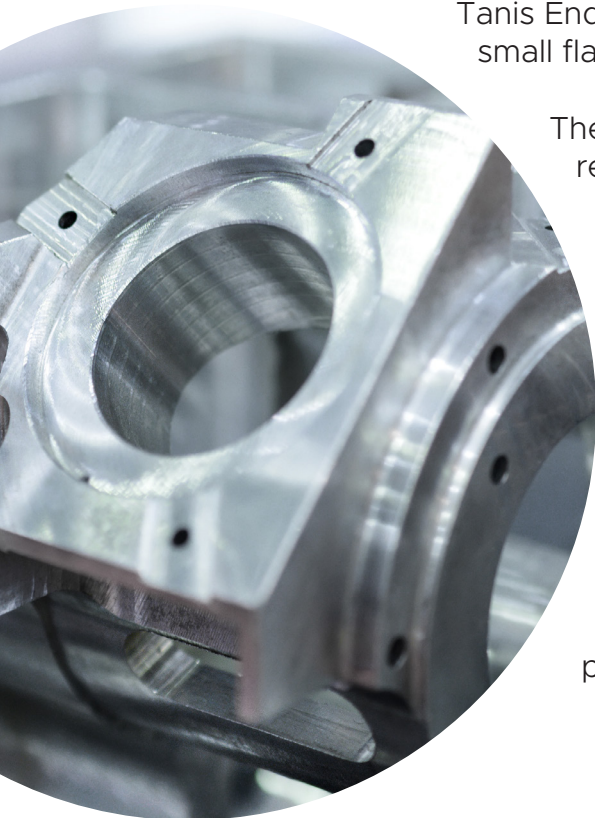


BRUSH PATH:

The ideal brush path is in the opposite direction of travel from the cutting tool that created the burr.

The brush path should start and end off the part, to a point where the trailing edge of the brush is extending over the part edge a 1/2" to 1" to effectively remove any burrs.

CERAMIX® END BRUSHES WITH BRIDLES



Tanis End Brushes deliver targeted brushing action to small flat surfaces or recessed areas on machined parts.

They blend tool marks, deburr slots and small recessed areas, rough edges, and internal part features.

Our End Brushes feature bridles to prevent flaring in use and an integrated stem for easy mounting in a collet or tool holder.

Made with our CeramiX® filament containing an exclusive Abrasive Grain from 3M™ that delivers unmatched deburring action.

They easily integrate in CNC machines and robotic centers and can also be used in portable air or electric tools.

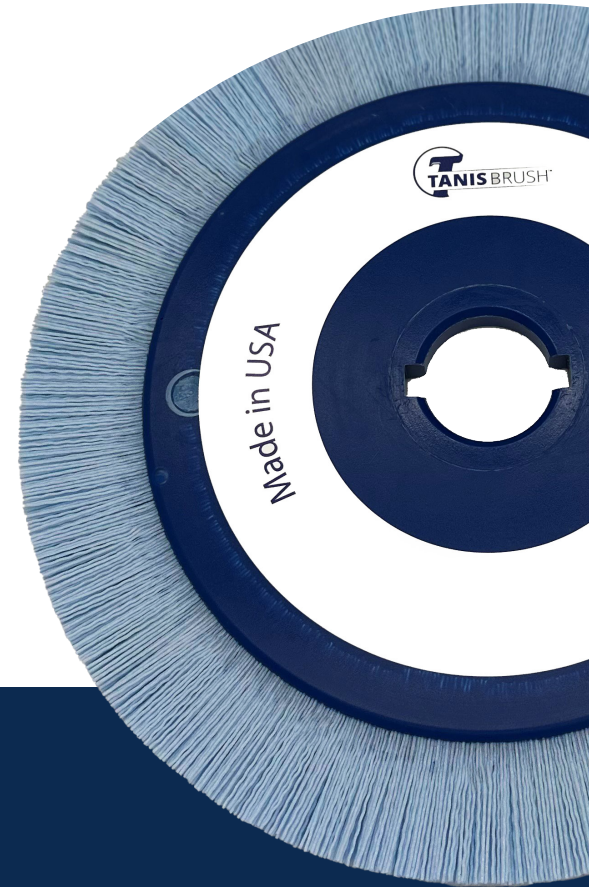


LARGE DEBURRING WHEELS



Our large deburring wheel brushes, featuring CeramiX® filament in a urethane-based hub, utilize 3M™ Abrasive Grain for up to six times the cutting efficiency of other filaments. With a unique self-sharpening grain technology, these brushes enhance throughput and prolong lifespan.

These brushes are used in many deburring and finishing applications, and are commonly used in robotic deburring cells or custom deburring equipment. These brushes are ideal for automated processes and offer an aggressive yet compliant deburring action. The CeramiX abrasive nylon filament acts as a flexible file to finish features of the parts in a uniform manner.



INDUSTRIES & APPLICATIONS



Automotive



Aerospace



Heavy Machinery



Robotic Cell

SMALL DIAMETER WHEEL BRUSHES



Get in the grooves with our small diameter Copper Center Wheel Brushes.

They are perfect for cleaning, polishing, and deburring recessed areas such as small openings, slots, machined grooves, and for fine deburring on medical instruments and gear splines.

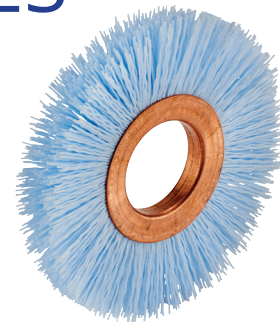
Available in our CeramiX[®] filament or Silicon Carbide for finishing carbon steel, stainless steel, titanium, and cast iron parts. Our CeramiX[®] filament features an exclusive 3M[™] Abrasive Grain -- for greater cutting action and throughput.

Brushes come in 1" to 4" diameters.

PRO TIP

Wheel Brush Depth of Penetration

For optimal performance, the recommended depth of contact for a wheel brush is up to 10% of the trim length



1" Brush Diameter



3" Brush Diameter

WHEEL & BORE BRUSHES



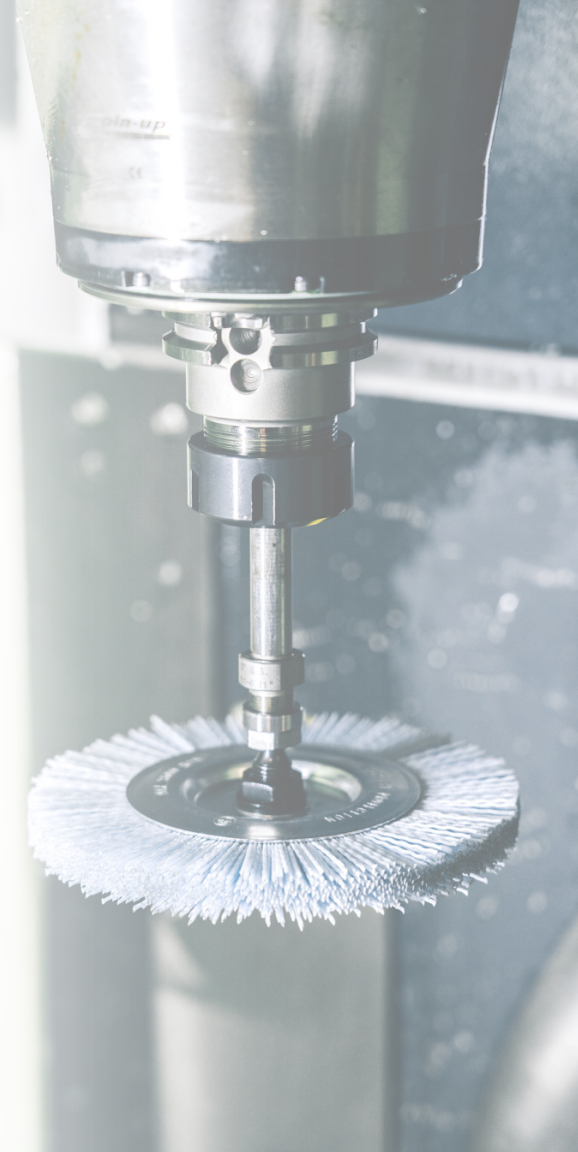
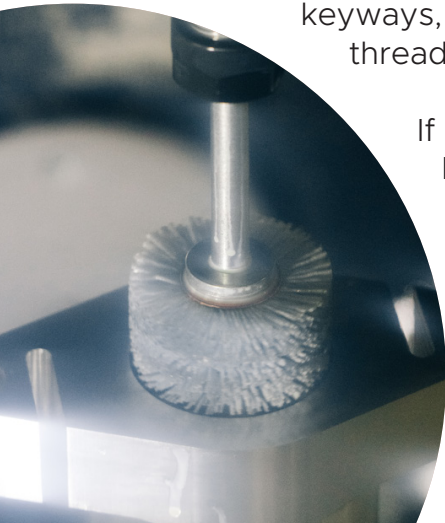
Our CeramiX® Metal Hub Wheel Brushes give you great flexibility in application and come in standard diameters from 3" to 6".

They are ideally suited for deburring and finishing irregular-shaped parts, contoured surfaces, cylinder bores and machined grooves. When looking to edge radius or blend the edges, wheel brushes are the perfect choice.

Wheel Brushes are versatile and range in capabilities from finishing cylinders, housings, camshafts, gear splines, internal bores, keyways, and slots to blisk and turbine blades, piping, threading, tubing, and countless machined parts.

If you have cross holes, you may need a Bore Brush. Designed to remove burrs from internal edges and finish bores, removing any contaminants left behind from the machining process.

Bore Brushes come standard in 1" to 4" diameters. All made with our high-performance CeramiX® filament.



ABRASIVE BRUSH ACCESSORIES



DISC BRUSH DRIVE ARBOR

Securely mount disc brushes for use in any type of milling or CNC machine. Drive arbor shaft is $\frac{3}{4}$ " diameter for use in any live tool holder. Includes bolt and washer. Coolant can be flushed through shaft and bolt.



MINI DISC DRIVE ARBOR

Mount Mini Disc Brushes in any type of milling or CNC machine. Drive arbor shaft is $\frac{1}{2}$ " diameter for use in any live tool holder. Set screw included. Coolant can be flushed through shaft.



STANDARD SHELL MILL HOLDER



Our Shell Mill Disc Brushes come with built in keyway that fit standard shell mill holders (not sold through Tanis).

BRUSH EXTENSIONS



COMPATIBLE WITH BRUSH ARBOR HOLES OF:	LENGTH OF EXTENSION	BRUSH TYPE
1/4"	6"	Copper Center Wheel
1/2" & 5/8"	12"	Copper Center Wheel (1/2") or Metal Hub Wheel (5/8")

Each part number comes with 1 extension and 3 shoulder bolts. Capable of holding up to 3 wheels. Brushes sold separately.

TWIST BRUSHES



MAXIMIZE PRODUCTIVITY WITH COLLET READY TWIST BRUSHES

Our CeramiX® Collet Ready Twist Brushes are perfect for internal hole deburring and finishing applications, tubular component parts, drilled and tapered holes.

The brushes are fitted with a solid galvanized steel shank for ease of use and stability in CNC machine tools, drill presses, and manual machine tools.

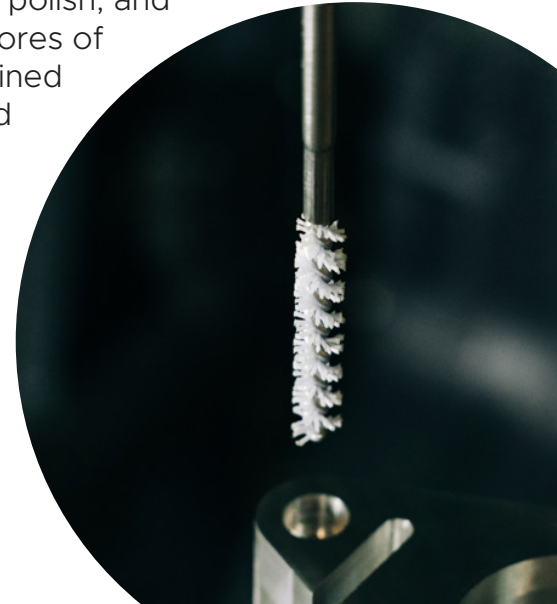
Built with our high-performance CeramiX® abrasive filament, you'll get greater productivity out of each brush.



HEAVY DUTY BURR BRUSHES FOR POWER TOOLS

Our Burr Brushes are workhorses in drill presses and hand power tools.

They deburr, polish, and clean inner bores of tubing, machined cylinders, and smooth or threaded blind holes.



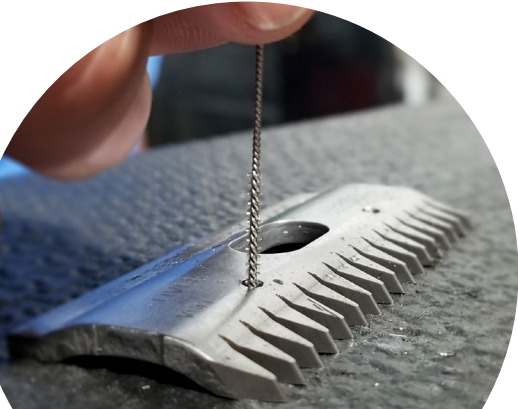
TWIST BRUSHES



MINI TWIST BRUSHES WITH LOOP FOR HAND USE

Choose Mini Twist Brushes with loop end for ultra-fine cross hole deburring, cleaning, blending and polishing of small diameter holes.

Available in Stainless Steel and low scratch filaments
Brass and Nylon.



MINI TWIST BRUSHES WITH CUT END

For hand use or power tools, our Mini Twist Brushes are used for ultra-fine cross hole deburring, cleaning, blending, and polishing of small diameter holes.

Available in Stainless Steel and low scratch filaments
Brass and Nylon.



TWIST BRUSHES



ABRASIVE NYLON BURR BRUSH

Our Burr Brushes provide a high filament concentration for heavy burr removal in wet or dry applications.

The short trim allows the stiffer bristles to work harder, creating more productivity in cross hole deburring, cleaning threads, removing debris from machined parts, crankshaft bores and general deburring.



ABRASIVE NYLON TUBE BRUSH

Our Abrasive Nylon Tube Brushes are primarily used for internal deburring and finishing in tubular component parts, drilled and tapered holes in CNC machine tools, drill presses, air tools and manual machine tools.



BORE-HONE™ BRUSHES



EXCELLENT FOR HEAVY DEBURRING

Machining can leave behind metal fragments and burrs that adversely affect part performance. That's where the Tanis Bore-Hone™ excels.

The Bore-Hone™ brush is a flexible tool with more brush surface area that removes heavy burrs and creates a cross hatch pattern to achieve maximum surface finishing and oil retention.

Flexible nylon stems allow for the silicon carbide spheres to self-center, providing evenly distributed pressure within the part.

The Bore-Hone™ delivers a smooth, consistent finish every time.



BORE-HONE™ BRUSHES



FOR SURFACE FINISHING, INTERNAL DEBURRING,
CROSS HOLE DEBURRING, AND DEGLAZING*

Standard-Duty Bore-Hone™ Brushes

Improves the surface finish of internal bores,
cylinders, and cross holes.

Ideal for internal deburring of machined
bores and inside diameters of castings.

Heavy-Duty Bore-Hone™ Brushes

Best suited for cross hatching larger engine
cylinders, combustion chambers, and power
generation cylinders for better performance.

*Always use a lubricant with Bore-Hone Brushes for
optimal performance.



WIRE WHEEL POWER BRUSHES



Wire Wheel Brushes are suitable for cleaning cavities, edge deburring, pipe deburring, and weld cleaning within chamfers or pipe heads.

TWISTED KNOT WIRE WHEEL BRUSHES

For heavy duty applications, Twisted Knot Wheels deliver aggressive brushing performance for weld preparation and removal of large or stubborn burrs.



CRIMPED WIRE WHEELS FOR GRINDERS

For light surface deburring and brushing, edge radiusing, rust removal, and surface cleaning.



WIRE CUP POWER BRUSHES



Wire Cup Brushes are ideal for surface preparation of flat parts in metalworking applications, from deburring and slag, rust and corrosion removal to weld prep and cleaning.

TWISTED KNOT WIRE CUP BRUSHES

Ideal for removing slag, rust, paint, and other hard materials. For use on angle grinders.



CRIMPED WIRE CUP BRUSHES FOR GRINDERS

For light cleaning of rust, paint, and other materials.



WIRE END POWER BRUSHES



Wire End Brushes are best suited for holes and cleaning cavities.

TWISTED KNOT WIRE END BRUSHES

Made with very resistant, hardened steel wire for aggressive deburring and cleaning. Used on hand tools.

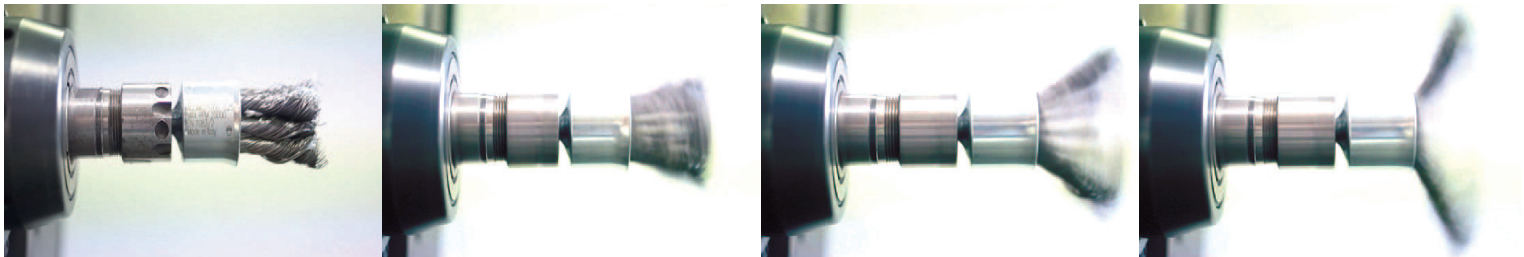


CRIMPED WIRE END BRUSHES FOR GRINDERS

Effective for cleaning and accurate brushing action in tight areas. Used for removing slag, scale, rust, and paint along with tool and die finishing.



Once the brush starts spinning, the wire filament spreads out to reach and brush the side walls of the cavity.



Recommended Speeds for Wire Power Brushes by Application

5000 5500 6000 6500 7000 7500 8000 8500 9000 9500 10000

Edge Radiusing

Deburring

Polishing

Cleaning Welds

Removing Scale, Rust or Paint

POWER BRUSH APPLICATIONS:

Weld Preparation & Removal of Burrs

Hole & Cavity Cleaning

Edge Deburring

Weld Cleaning within Chamfers or Pipe Heads

Pipe Deburring

Cleaning and Removal of Rust, Paint, Slag or Other Hard Materials



STRIP BRUSHES & HOLDERS



Straight strip brushes deliver on the promise to seal and protect. A strip brush can be used for an endless list of applications, here are just a few... commercial and residential doors, dock doors/dock levelers, overhead doors, data center cabinets, equipment and appliances, jet bridges, airport hangar doors, building enclosures, sealing and weatherstripping.



Nylon Fill / Galvanized or Stainless Steel Backing



Stainless Steel Fill / Stainless Steel Backing



Brass Fill / Stainless Steel Backing

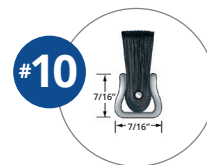
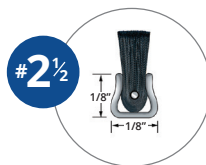


Natural Polyester Fill / Stainless Steel Backing



Horsehair Fill / Galvanized Backing

STANDARD STRIP BRUSH SIZES



Additional Sizes Available



METAL BACK STRIP BRUSH HOLDERS

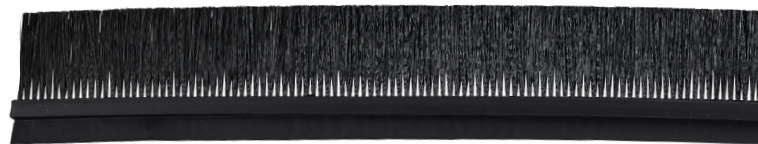
We offer holders for our standard metal back strip brushes in extruded aluminum for backing sizes #2½, #4, #7 and #10. The holders are available in a variety of profiles for straight and angled mounting.

FLEXIBLE & RIGID PVC STRIP BRUSHES



FLEXIBLE PVC STRIP BRUSHES

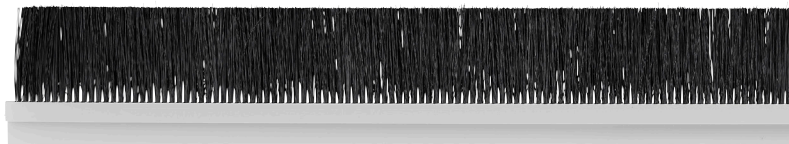
Provides superior contouring and versatility compared to rigid alternatives. They find wide application in sealing doors, building enclosures, conveyor cleaning, temperature regulation, and debris control.



Backings offered in h-profile, 90 degree, and clip styles

RIGID PVC STRIP BRUSHES

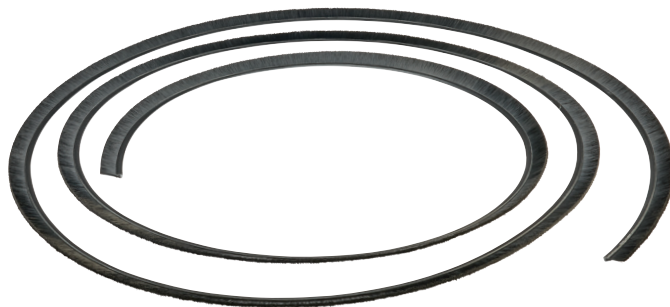
A non-corrosive brush option that can be used in a variety of applications from sealing and weatherstripping to conveyor cleaning, product transport, temperature, mist and debris control.



Backings offered in h-profile, and 90 degree styles

FUZE FLEX STRIP BRUSHES

When you need the most flexibility in your application, Fuze Flex is an excellent choice. In action, this strip brush adapts to irregular surfaces, corners, curves and angles, offering solutions for a wide range of sealing applications.



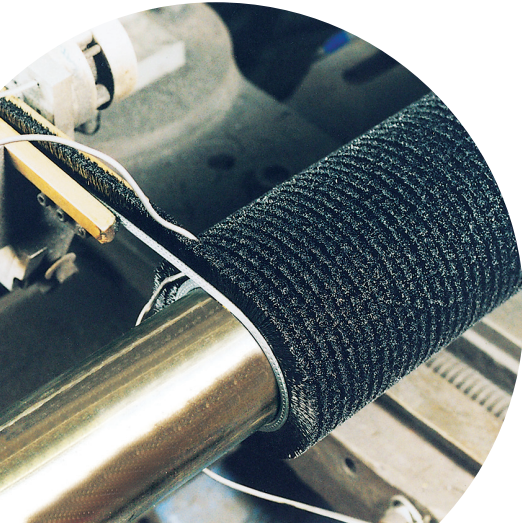
Available for purchase in rolls to cut as needed.

CYLINDER BRUSHES



Cylinder brushes or rotary brushes can be made in many sizes and depending upon the application may be built as a staple set brush or a coiled brush that mounts onto a core, shaft, or tube.

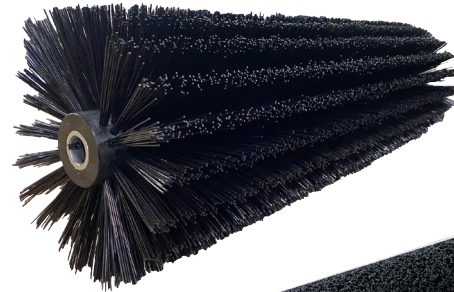
Cylinder brushes are highly customized and are designed to the needs of an individual application or piece of equipment. Tanis cylinders are available in different patterns and filament types based on the function of the brush. Our team can help you determine the right brush features for your application.



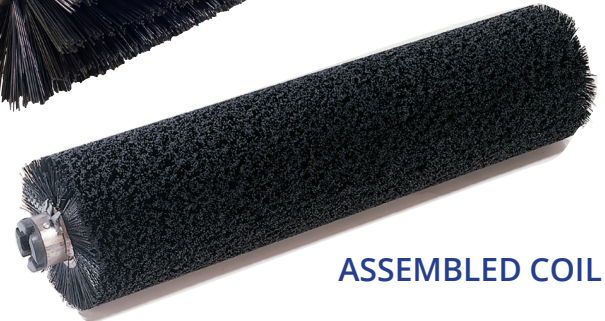
LOOSE COIL



STAPLED CYLINDER



ASSEMBLED COIL



STAPLE SET BRUSHES

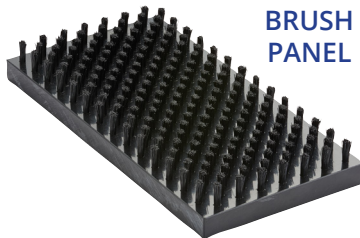


Staple set brushes are completely custom creations and are developed based on your application and specs. Tanis has an extensive range of manufacturing capabilities in stapled brushes, offering great versatility in sizes, shapes, filaments and brush patterns. From wood to plastic and rigid to flexible, we can make stapled brushes with a variety of substrates.

CONVEYOR GUIDE
RAIL BRUSHES



BRUSH
PANEL



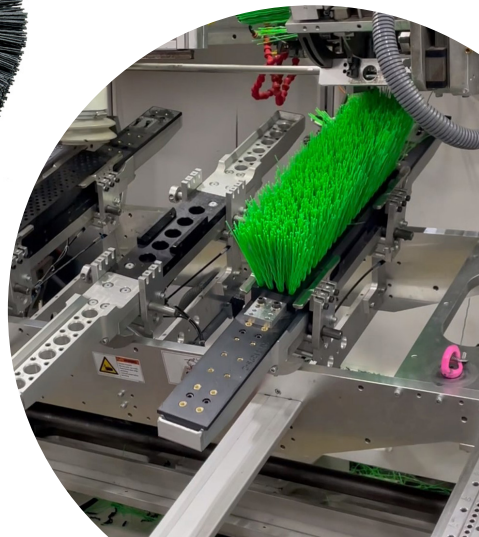
STAPLED
WHEEL BRUSH



PHARMACEUTICAL
BRUSHES



STAPLED
DISC BRUSH



SCRATCH BRUSHES FOR INDUSTRIAL CLEANING



Scratch brushes are durable and come in a variety of shapes, sizes and filaments to be used for cleaning hard-to-reach areas and industrial surfaces.

**WOOD HANDLE
WELDING BRUSHES**



**PLASTIC HANDLE
WELDING BRUSHES**



**LARGE & SMALL
UTILITY BRUSHES**



**HARDWOOD
BLOCK BRUSH**



**NYLON DELRIN
HANDLE BRUSH**



**WIRE PLATERS'
BRUSHES**



**STOVE & APPLIANCE
BRUSHES**



**HORSEHAIR
UTILITY BRUSH**



ARTIST BRUSHES FOR INDUSTRIAL FINE DETAILING



RED SABLE MARKING BRUSHES

Excellent for detail work due to needle sharp point.



PONY HAIR DETAIL BRUSHES

Sometimes referred to as a lip brush.



TAKLON WHITE ARTIST BRUSHES

Tapered nylon material to provide an even flow. Ideal for acrylics.



BLACK SABLE OX HAIR STROKE BRUSHES

Material that has a soft texture and holds fluid colors for a sharp stroke.



GOLD NYLON FLAT ARTIST BRUSHES

Nylon material to provide an even flow. Ideal for acrylics.



FINE WHITE BRISTLE STENCIL BRUSHES

Stiff white bristle used for detail and stencil applications.



CAMEL HAIR FLAT LAQUERING ARTIST BRUSHES

Very absorbent material excellent for touch-up work.



BLACK BRISTLE FITCH BRUSHES

Black bristle brush ideally suited for use with oil and acrylics.





INDUSTRIAL & ABRASIVE BRUSH MANUFACTURER

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