

Abtex

A Deburring Technology Company

Take the Edge Off All of Your Deburring Needs

Global Leader in Custom Engineered Deburring Solutions



Deburring Since 1980.

www.abtex.com

sales@abtex.com

(315) 536-7403

Thank you for your interest in Abtex; we have been designing and manufacturing application specific abrasive filament brushes and systems since 1980. Since then, Abtex has engineered thousands of deburring solutions for companies all over the world. Abtex continues to be one of the only companies worldwide that produce abrasive filament brushes and deburring systems to work together in perfect synchronization.

Abrasive Filaments:

Individual abrasive filaments are available in a variety of materials resulting in different grits and lengths. Abrasive filament is an optimal deburring solution because of its self sharpening capabilities which result from deburring parts. The abrasive filaments strike the part at a perpendicular angle, removing burrs while maintaining the part's geometry. With over 40 years of deburring experience and knowledge, Abtex can help solve your deburring challenge using an abrasive filament brush. Each filament contains a different grit which produces a variety of results.

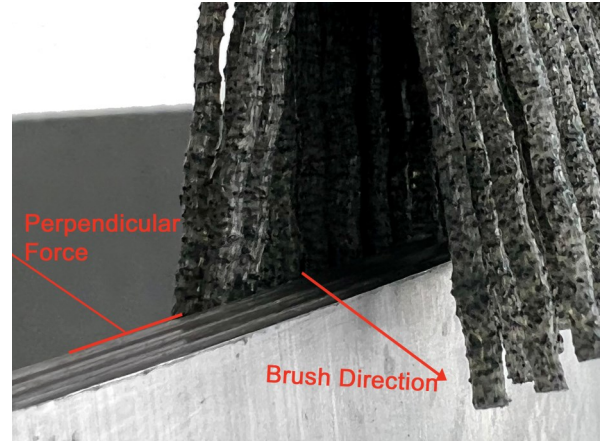
Silicon Carbide (SC)

Ceramic (CER)

Diamond (DIA)

Aluminum Oxide (AO)

Abrasive Tape



Customization:

Abtex can customize filament length, size, grit, density and several other aspects to ensure your abrasive filament brush produces the most optimal results for your specific application. There are no limits to Abtex's engineering capabilities as we produce brushes up to 48 inches in diameter!

The correct abrasive filament brush for you:

Abtex's **Applications Lab** is here to help determine which abrasive filament brush is optimal for your deburring application. Abtex can test your parts with our abrasive filament brushes to produce the results you desire. Contact Abtex to learn more about sending in your parts to our Applications Lab!

Typical Application Use:

Most abrasive filament brushes are used for:

- Deburring
- Sharp Edge Removal
- Edge RADIUSING
- Surface Finishing
- And More!

Custom Engineered Deburring Systems

In Abtex's manufacturing facility in Dresden, New York, you will not find a warehouse of deburring systems.

Instead, you'll find a busy manufacturing floor containing customer innovations in progress – unique, engineered solutions for the deburring needs of automotive, aerospace, and medical-device customers worldwide.

Machine shells, frames, robots, conveyor systems, motors, planetary heads, and parts-moving devices are all developed in the imagination of our engineers and are built into systems that will soon dramatically enhance the efficiency of a customer's manufacturing operation.

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**Products shown in this catalog can all be engineered for a specific application. Abtex has the ability to customize virtually any aspect of an abrasive filament brush. Abtex can also engineer, design, and manufacture a custom deburring system to fit your production needs.

Abtex offers additional products that are not shown in this catalog. For more information please contact an Abtex Sales Representative at sales@abtex.com or call (315) 536-7403.

“Abtex Exclusive” Abrasive Filament Disc Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	46- 320
Diameter	3" - 48" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Powdered Metal, Machined Parts, Fine-Blanking
Benefits	Flexible and conforms to your part for moderate burr removal

Tufted Abrasive Filament Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	80 - 1600
Diameter	0.5" - 24" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Powdered Metal, Machined Parts
Benefits	Engineered for precision.

Abrasive Filament V-Tuft Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	80 - 1600
Diameter	3" - 12" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Powdered Metal, Machined Parts
Benefits	Dense and aggressive for well attached burr removal.

Abrasive Filament Staple Set Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	80 - 1600
Diameter	5" - 14" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum
Benefits	Economical abrasive filament brush.

Long Trim “Green Part” Abrasive Filament Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	80 - 320
Diameter	3" - 14" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Powdered Metal (Green Parts)
Benefits	Engineered to provide controlled material removal

Automotive Wheel Brushes



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	80 - 1600
Diameter	6" - 24" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Machined Parts
Benefits	Engineered for precision—application specific.

Abrasive Flap Disc Brush



Filament	Coated Abrasive
Grit	40, 60, 80, 120, 320
Diameter	5" - 10" (Inches)
Application Use	Primary Burr Removal (Standing Burr)
Industry	Fine-Blanking
Benefits	The most aggressive brush.

Abrasive Tape Brush



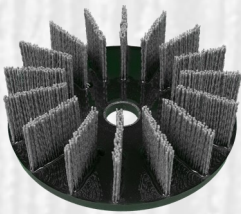
Filament	Co-Extruded Abrasive Tape
Grit	80
Diameter	5" - 10" (Inches)
Application Use	Primary Burr Removal (Standing Burr)
Industry	Fine-Blanking, Powdered Metal (Sintered Parts)
Benefits	Aggressive burr removal - lighter than a Flap Disc.

Fine-Blanking Abrasive Filament Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	46 - 320
Diameter	6" - 7.09" (Inches)
Application Use	Secondary Burr Removal, Sharp Edge Removal, Etc.
Industry	Fine-Blanking
Benefits	Removes any secondary (remaining) burrs after the flap disc.

Custom Abrasive Filament Brushes



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond, Abrasive Tape
Grit	46 - 1600
Diameter	0.5" - 48" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Engineered For Specific Applications/Industries
Benefits	Engineered for performance, customized for your application.

The Correct Abrasive Filament Brush

If you don't see or don't know the correct abrasive filament brush for your application, Abtex is here to help! With a team of dedicated engineers and an applications lab, Abtex can find and, engineer the solution to your deburring challenge. Contact Abtex to learn more about sending in your parts for lab testing.



Disc Brush Backings



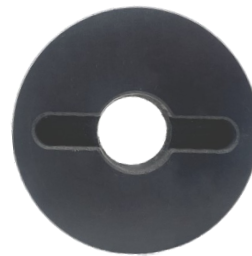
Shell Back



Fabricated Back



Snail Lock



Shell-Mill



Wood Back

Abtex can engineer, design, and manufacture a disc brush in almost any configuration and format.

Contact Abtex to learn more about the different backings and to learn which style is most efficient for your production.

Disc Brush Accessories



Drive Arbor

Used for In-Machine Deburring Applications.



Back-Up Plate

For mounting 12", 14" and 16" Disc Brushes.



Retaining Nut

Secures the brush to the Back-Up Plate or the Drive Arbor.

Radial Wheel Brush Accessories



Plastic Adapters

Designed to increase brush support and to reduce vibrations.



Drive Arbor

Used for In-Machine Deburring Applications.



Aluminum Side Plates

For mounting 6" -16" Radial Wheels

Radial Wheel Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	46 - 1600
Diameter	6" - 16" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Aluminum, Machined Parts, Powdered Metal, Etc.
Benefits	Can be used in almost any application.

Ganged Radial Wheel



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	46 - 1600
Diameter	6" - 16" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Aluminum, Machined Parts, Etc.
Benefits	Provides a uniform finish.

Composite Radial Wheel



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	80 - 1600
Diameter	4" - 16" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Aluminum, Machined Parts, Powdered Metal, Etc.
Benefits	Customizable arbor hole sizes and filament lengths.

Copper Center Radial Wheel



Filament	Silicon Carbide, Ceramic, Aluminum Oxide
Grit	80 - 320
Diameter	2" - 4" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Aluminum, Machined Parts, Etc.
Benefits	Can be used in almost any application.

Diamond Radial Wheel



Filament	Diamond
Grit	400-1600
Diameter	4" - 16" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Aluminum, Machined Parts, Etc.
Benefits	Used on hard materials such as ceramic, carbide, tool steel, etc.

Custom Radial Wheel Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond, Tape
Grit	46 - 1600
Diameter	2" - 16" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge RADIUSING, Etc.
Industry	Engineered For Specific Applications/Industries
Benefits	Engineered for precision, customized for your application.

In-Machine - Abrasive Filament Brushes



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	46 - 1600
Diameter	0.5" - 6" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Machined Parts, Powdered Metal, Etc.
Benefits	Engineered tool inside your machining center

Abrasive Filament -Stem Mounted Brushes



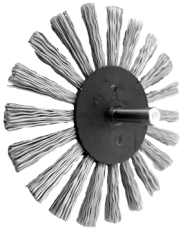
Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	80 - 1600
Diameter	0.5" - 6" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Machined Parts, Powdered Metal, Etc.
Benefits	Versatile and easy-to-use

Abrasive Filament End Brushes



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	80 - 1600
Diameter	0.5" - 3" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Aluminum, Machined Parts, Powdered Metal, Etc.
Benefits	Versatile and easy-to-use

Custom In-Machine Abrasive Filament Brush



Filament	Silicon Carbide, Ceramic, Aluminum Oxide, Diamond
Grit	46 - 1600
Diameter	1" - 4" (Inches)
Application Use	Deburring, Sharp Edge Removal, Edge Radiusing, Etc.
Industry	Engineered For Specific Applications/Industries
Benefits	Versatile and easy-to-use

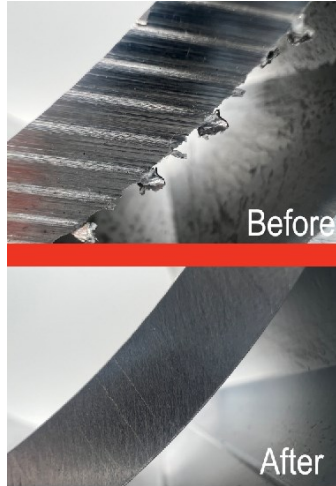
Can't Find the Correct Abrasive Filament Brush?

Abtex's Applications Lab is the solution to your deburring challenge! Abtex's group of engineers will test your parts with different abrasive filament brushes to find the most efficient and effective deburring tool for your production. If there isn't a solution, Abtex will create one!

Results include abrasive filament brush recommendations, before and after photos, and your parts returned to you! This is a free service that Abtex offers, the only cost you have to pay is the shipping to and from Abtex's facility.

Contact sales@abtex.com to learn more about sending in parts for lab testing.

Aluminum Deburring - Abtex can engineer, design and, manufacture a custom aluminum deburring system for your production. Abtex began as a deburring company specifically for aluminum deburring applications. The very first Abtex deburring system was designed for aluminum heatsinks and Abtex has since continued to innovate to become a global leader for aluminum deburring applications.

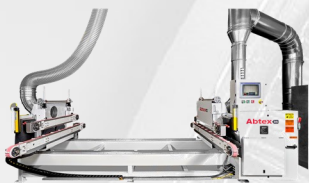


Abtex Exclusive
Abrasive Filament Brush



Single End Deburring System - Compact and powerful this system is available in **Semi-Auto** or **Manual** configurations. Deburr a single or multiple ends of a saw cut aluminum extrusion ranging from 0.25 - 6 inches in height. For parts longer than 36" an extension table will be required.

Double End Short Part Flow Through Deburring System - Deburr both ends of extruded saw cut aluminum parts ranging from 2 - 9.5 inches in length and 0.25 - 6 inches in height at the same time in a flow through operation.



Double End Long Part Flow Through Deburring System - Simultaneously deburr both ends of saw cut extruded aluminum from 8 - 120 inches in length and 0.25 - 6 inches in height in a flow-through operation.



Fanuc Robotics System - Capable of achieving the complex interface angles essential for proper deburring of almost any type of aluminum part.

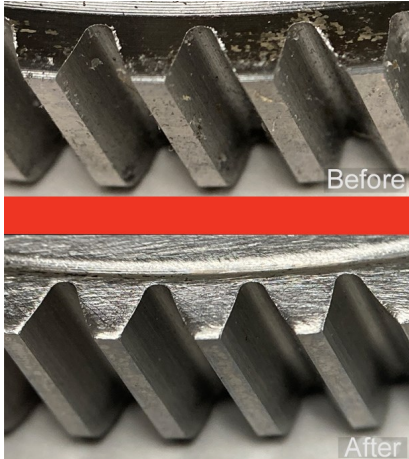


Wet Dust Collection Units - Abtex also offers Wet Dust Collectors which are compliant with **OSHA NFPA 484** standards.

For more information about aluminum deburring systems or wet dust collection units visit www.abtex.com or contact Abtex.

Deburring Powdered Metal Parts -

An Abtex deburring system allows for a high capacity of parts to pass through a system in a flow through operation. Abtex has made it easy to deburr your parts whether they're in the green state or sintered. Abtex produces abrasive filament brushes and deburring systems to work together in perfect synchronization for the most optimal results. Whether you need a deburring solution, that requires an abrasive filament brush, or a complete deburring system, Abtex can take the edge off all of your powdered metal deburring needs.



Long Trim
Green Part Deburring Brush



Sintered Part
Deburring Brush

Green Part Deburring with a GP2 Deburring System -

Deburr your parts with ease in the green state without affecting the parts geometry! Abtex engineered the GP2 to remove burrs in a quick and effective manner, prior to the sintering process.



Planetary Head -

Three 10, 12, or 14 inch diameter abrasive filament brushes rotate on their own axis in conjunction with a central axis to provide multi-directional deburring. Abtex Planetary Head Deburring Systems can have multiple heads to provide a multi-step deburring process.

Tri-Fourteen (2 Planetary Head) Deburring System -

Ruggedly built for 24/7 use, the Tri-Fourteen (2) Deburring System deburrs the toughest sintered parts by using two planetary heads. The first planetary head is used to remove the primary burrs, followed by the second planetary head to remove any remaining burrs. Contact Abtex today to learn more!



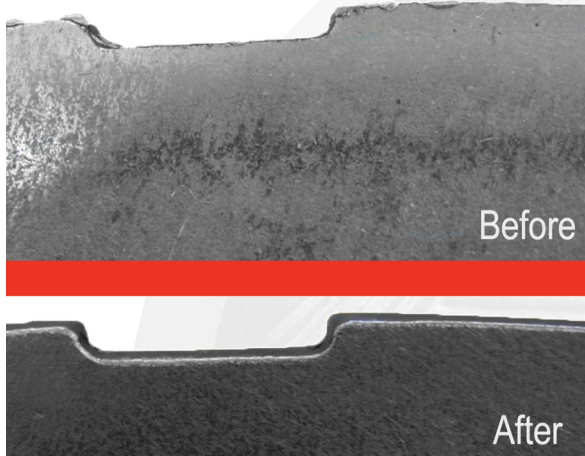
Tri-Ten (2) Return to Operator (RTO) Deburring System -

The Tri-Ten (2) RTO Deburring System was designed to take up less space on your production floor while providing the same functions as a standard Tri-Ten Deburring System. Within a small footprint the Tri-Ten (2) RTO Deburring System can deburr both the top and bottom face of your parts within seconds.

Abtex can custom engineer, design, and manufacture a system to fit your production. For more information on Powdered Metal Deburring Systems visit www.abtex.com

Deburring Your Fine-Blanked Parts -

Ruggedly built for 24/7 use, Abtex's Tri-Ten (2) Flow Through Deburring System is an industry leading deburring system which benefits many fine-blanked part manufacturers. The Tri-Ten is designed to continuously deburr your parts at a high capacity, while utilizing a planetary head consisting of three 10" (or 14) diameter abrasive filament brushes. Most fine-blanked parts require a multi-stage deburring process which requires two planetary heads. The abrasive flap disc is used to remove primary burrs, followed by an abrasive filament brush to remove any secondary burrs and provide an edge radius or surface finish if needed. Shown below are the results of an Abtex deburring system utilizing two planetary heads consisting of an abrasive flap disc and then an abrasive filament brush.



Abrasive Flap Disc
(Primary Burr Removal)

Abrasive Filament Brush
(Secondary Burr Removal)

Custom Engineered Tri-Ten (FB) Deburring Systems -

Every deburring system has different features per customer requirements. Abtex can custom engineer a system in a variety of ways from functions and features to appearance and size. Available options are based on your part's requirements as each deburring system is designed, engineered, and produced specifically for your application. [Contact Abtex today](#) to learn more.



Q-180 Deburring System -

The Q-180 is a newly designed system that was engineered to be more cost competitive. The Q-180 consists of two in line 'quad' planetary heads, each head utilizes four 180mm (7.09") brushes. Fine-blanked parts up to 8" in width can be processed in this system. For more information contact Abtex.

For more information on Fine-Blanked Deburring Systems visit www.abtex.com or contact sales@abtex.com

(Fine-Blanked parts may also be referred to as 'stamped' parts)

Abtex

A Deburring Technology Company

Industries Served

Aluminum



Powdered Metal



Fine-Blanked



Abtex has over 40 years of experience in deburring aluminum, powdered metal, and fine-blanked parts.
The only deburring challenge Abtex hasn't solved is yours.

Contact Abtex Today.

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