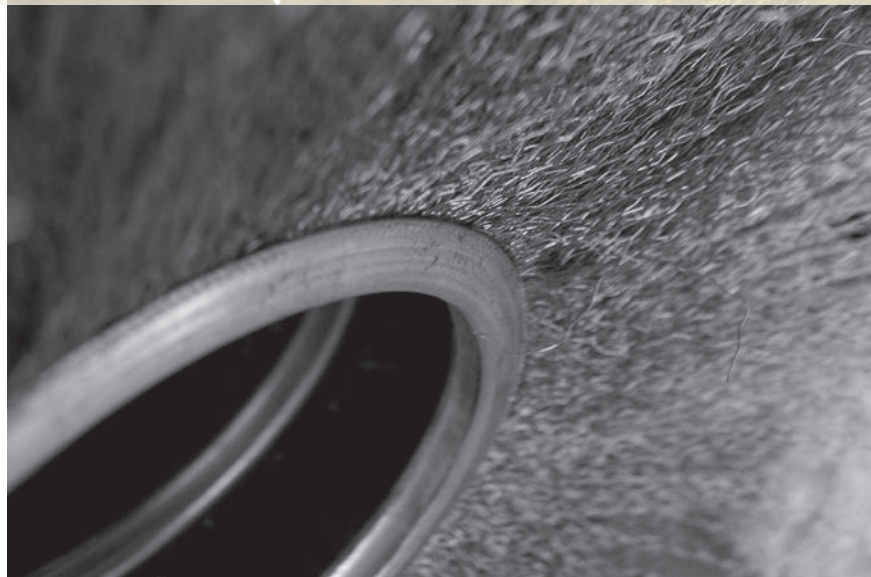




Without

EQUAL

The
Essential
Guide
to
Industrial
Brush
Applications



Brushes are more than just sweeping. We've all seen it before: A machine designed to do an important job does part of the task well, but not the whole enchilada. Maybe the engineers who designed the machine got tunnel vision on adding a specific seal, or they spec'ed a guide that keeps the product on the straight and narrow, but wears out in half the time they expected. Or maybe their creation works just fine, but traps dust, or slurry, or some other type of debris in some tight corner, even under its normal operating conditions. A custom brush can solve all of these problems, helping to clean and maintain a machine in a way only a brush designed for the task can do, or replacing a component or adding a new part that makes everything work better. Let us help you design a brush that gives you the whole enchilada.

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To Our Customers and Friends,

Fuller Industries has been making custom brushes for well over 100 years. Formerly known as Fuller Brush, our company has a history intertwined with that of America: Everyone that I meet has their own personal Fuller Brush connection. Often, it was a family member who used to be a Fuller Brush salesman.

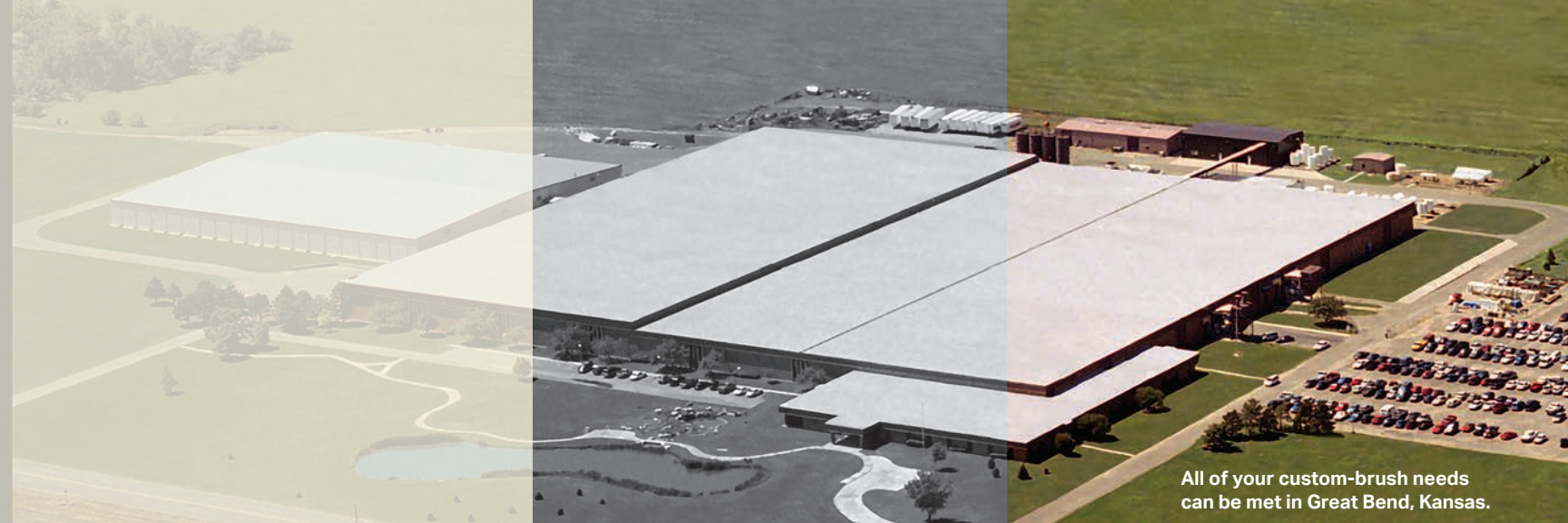
Today we continue to make brushes for everyday use, as well as customized brushes designed for a variety of purposes, and we serve industries that range from aerospace to bakery to agriculture to guns to.... well, you get the idea. There's a wide variety of brush types and applications.

Because of our long experience and diverse expertise in designing and manufacturing custom brushes, Fuller Industries can be your partner—let us help make your life easier.

Mark Chalfant
CEO
Fuller Industries, LLC



Our brushes are built to your specification. We will work with you to solve any challenge.



All of your custom-brush needs can be met in Great Bend, Kansas.

In industrial and institutional markets, Fuller's Custom Brush division has long set the standard for superior design, exceptional quality and outstanding customer service. As our name implies, we are experts in the design and manufacture of custom brush products for a diverse range of industries including:

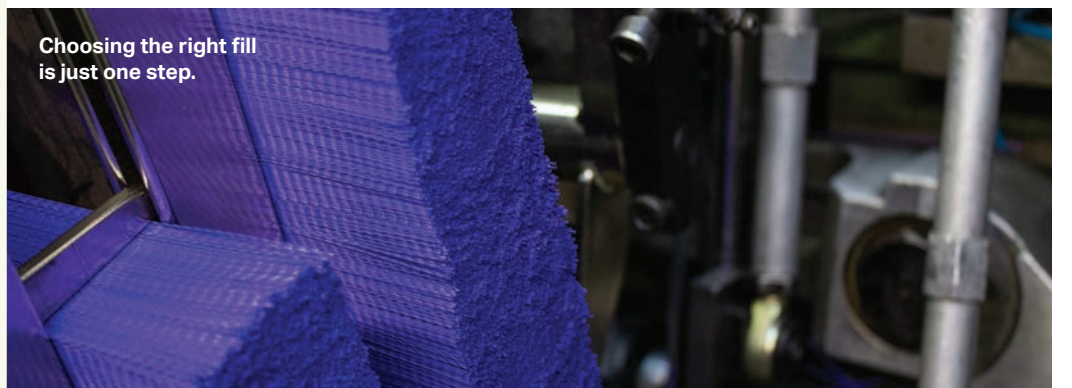
- Automotive
- Food Processing
- Mass Transit
- Material Handling
- Woodworking
- Door Seals
- Agriculture:
Planting, Harvesting
- Lawn & Turf
- Aerospace
- Machine Tool
- Bakery
- Packaging
- Overhead Door
- Printing
- Conveyor Cleaning
- Construction
- Lag

For more than 115 years, we've built our reputation by designing custom solutions that meet exacting specifications for OEM components, consumer appliances, production parts, manufacturing processes, and various manual usages. Our team takes pride in solving difficult problems and presenting our customers with the solution they demand, manufactured to a superior level of quality that we demand.

The versatility, efficiency, and economy of our Fullergript® brush—the original metal channel strip brush—keeps Fuller at the forefront of custom-brush manufacturers worldwide. Fullergript® construction permits brush materials of all types, sizes, and shapes to be evenly distributed along the backing in heavy, medium, or light densities.

Strong as steel...workable as wire.

We also excel at Staple-Set and Twisted-in-Wire. These brushes are custom manufactured to our customers' specification requirements. It is the policy of Fuller Industries and its employees to seek continuous improvements in every process performed, every product produced, and every service provided. Our goal is to meet or exceed our organizational goals and our customers' expectations with regard to quality, performance, and value.



Choosing the right fill is just one step.

THIS GUIDE PROVIDES AN OVERVIEW OF OUR BREADTH OF KNOWLEDGE AND CAPABILITIES. WE LOOK FORWARD TO HEARING FROM YOU AND STARTING YOUR PROJECT.

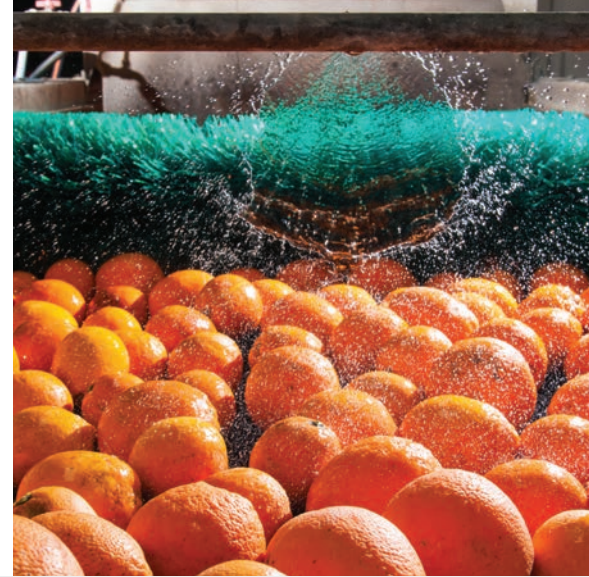


Bakeries keep up a blistering pace, day after day, meeting demand for our daily bread. They rely on conveyor systems to keep up and deliver the bakers' consistent quality, and the machinery needs to be kept clean and lubricated, and that's where our brushes come in, designed for every function, and to individual specs as needed.

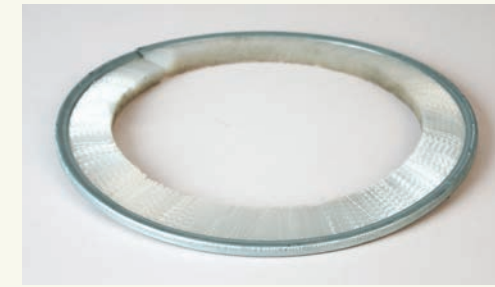
Intended Consequences

A COMPREHENSIVE GUIDE TO BRUSHES

Brushes provide a unique solution for a wide range of industrial and commercial challenges. They can be designed with different filaments, shapes, and sizes. Whether the application requires a delicate effect or a more demanding heavy-duty action, a brush can be customized to meet each customer's needs. The following information represents a general guideline of brush shapes and the different types of applications that are typically achieved with each.



CUP:
Seals for dust control in vacuum systems, liquid, wood and metal chip containment.



INSIDE DISC:
Cleaning outside surface of pipe, tubing, etc.; Seals for rolled thread-based screws, shafts, etc.; Positioning and guiding tubes, wire, and pipe. May be individual or multiple rings for increased effectiveness.



OUTSIDE DISC:
Cleaning and polishing systems; Conveying products over bi-level surfaces; May be used individually or mounted together for wider brush face.



STRAIGHT
Seals for temperature control, noise reduction, light filtration, pest management; Containment systems and guiding for conveyors; Shields for paint spray, parts cleaning, wood/metal chips; Spreading materials across wide spaces.



COILED/CYLINDER:
Cleaning systems for conveyors, sheet metal and glass, fruits and vegetables; Polishing metal, leather, etc.; Augering and guiding products; Cleaning inside of tubular surfaces.



SPIRAL:
Augering and guiding products to control directional movement; Cleaning systems for conveyors.



FORMED:
Shielding and guiding materials per unique design applications.



TAPERED:
Guiding materials; Filling angled openings.



LAG/BLOCK:
Cleaning systems for conveyors, sheet metal and glass, fruits and vegetables; Polishing metal, leather, etc.; Spreading and applying materials; Guiding products in directional movement; Conveying products while protecting fine surfaces; Shields for paint spray, parts cleaning, wood/metal chips.

The capabilities a brush can deliver are limited only by your imagination.

CUSTOM BRUSH STOCK PROGRAM

#2.5 STRIP BACKING SIZES AND HOLDERS

| Product # | Fill Material | Overall Trim | |
|--|---------------|--------------|--------|
| | | Min. | Max. |
| Triangular Plated Steel Backing | | | |
| Level Nylon | | | |
| 8B9202 | .006 Black | 1/4" | 1-1/2" |

#3 STRIP BACKING SIZES AND HOLDERS

| Product # | Fill Material | Overall Trim | |
|--|---------------------------------------|--------------|--------|
| | | Min. | Max. |
| Triangular Plated Steel Backing | | | |
| Level Nylon | | | |
| 8B9302 | .006 Black | 3/8" | 1-1/2" |
| Crimped Nylon | | | |
| 8B9301 | .008 Black | 3/8" | 1" |
| Triangular Aluminum Backing | | | |
| Natural Fiber | | | |
| 8B9081 | Horse Hair Available up to 72" length | 3/8" | 3-1/4" |

#4 STRIP BACKING SIZES AND HOLDERS

| Product # | Fill Material | Overall Trim | |
|--|---------------------------------------|--------------|--------|
| | | Min. | Max. |
| Triangular Plated Steel Backing | | | |
| Level Nylon | | | |
| 8B9402 | .006 Black | 1/2" | 1-1/2" |
| 8B9403 | .010 Black | 1/2" | 3" |
| Crimped Nylon | | | |
| 8B9078 | .010 Black | 1/2" | 2" |
| Natural Fiber | | | |
| 8B9080 | Horse Hair Available up to 72" length | 1/2" | 2" |

Triangular Aluminum Backing

| Product # | Fill Material | Overall Trim | |
|------------------------------|---------------|--------------|--------|
| | | Min. | Max. |
| Crimped Nylon | | | |
| 8B9079 | .005 Black | 1/2" | 1-1/4" |
| 8B9036 | .008 Black | 1/2" | 2" |
| Crimped Polypropylene | | | |
| 8B9943 | .010 Black | 1/2" | 3-1/4" |

#5 STRIP BACKING SIZES AND HOLDERS

| Product # | Fill Material | Overall Trim | |
|--|---------------|--------------|------|
| | | Min. | Max. |
| Triangular Plated Steel Backing | | | |
| Level Nylon | | | |
| 8B9503 | .012 Black | 1/2" | 3" |

#7 STRIP BACKING SIZES AND HOLDERS

| Product # | Fill Material | Overall Trim | |
|--|---------------|--------------|--------|
| | | Min. | Max. |
| Triangular Plated Steel Backing | | | |
| Level Nylon | | | |
| 8B9703 | .014 Black | 7/8" | 3" |
| 8B9704 | .018 Black | 7/8" | 4" |
| 8B9705 | .024 Black | 7/8" | 5" |
| Crimped Nylon | | | |
| 8B9054 | .005 Black | 1" | 2" |
| 8B9041 | .010 Black | 7/8" | 1-1/2" |
| 8B9042 | .010 Black | | 2" |
| 8B9043 | .010 Black | | 3" |
| 8B9052 | .014 Black | 7/8" | 2" |
| 8B9053 | .014 Black | | 3" |
| 8B9072 | .020 Black | 7/8" | 2" |
| 8B9073 | .020 Black | | 3" |
| 8B9062 | .028 Black | 7/8" | 2" |
| 8B9064 | .028 Black | | 4" |
| 8B9069 | .036 Black | 1" | 6" |

| Product # | Fill Material | Overall Trim | |
|------------------------------|---------------|--------------|--------|
| | | Min. | Max. |
| Crimped Polypropylene | | | |
| 8B9092 | .010 White | 7/8" | 2" |
| ▲ 8B9974 | .010 Black | 7/8" | 4.350" |
| 8B9091 | .014 Black | 7/8" | 3" |
| ▲ 8B9976 | .014 Black | 7/8" | 6.350" |
| 8B9094 | .020 Black | 7/8" | 3" |
| 8B9096 | .020 White | 7/8" | 4" |
| 8B9098 | .030 White | 1" | 4" |
| 8B9100 | .030 Black | 7/8" | 3" |
| 8B9104 | .040 Black | 7/8" | 4" |
| 8B9108 | .040 Black | | 8" |

| Product # | Fill Material | Overall Trim | |
|-----------------------|---------------------------------------|--------------|--------|
| | | Min. | Max. |
| Natural Fibers | | | |
| 8B9030 | Bassine | 1" | 4-1/4" |
| 8B9033 | White Tampico | 7/8" | 3" |
| 8B9031 | Horse Hair Available up to 72" length | 7/8" | 3" |

| Product # | Fill Material | Overall Trim | |
|-------------|---------------------------|--------------|--------|
| | | Min. | Max. |
| Wire | | | |
| 8B9087 .010 | Oil Tempered Crimped Wire | 1" | 3-3/8" |

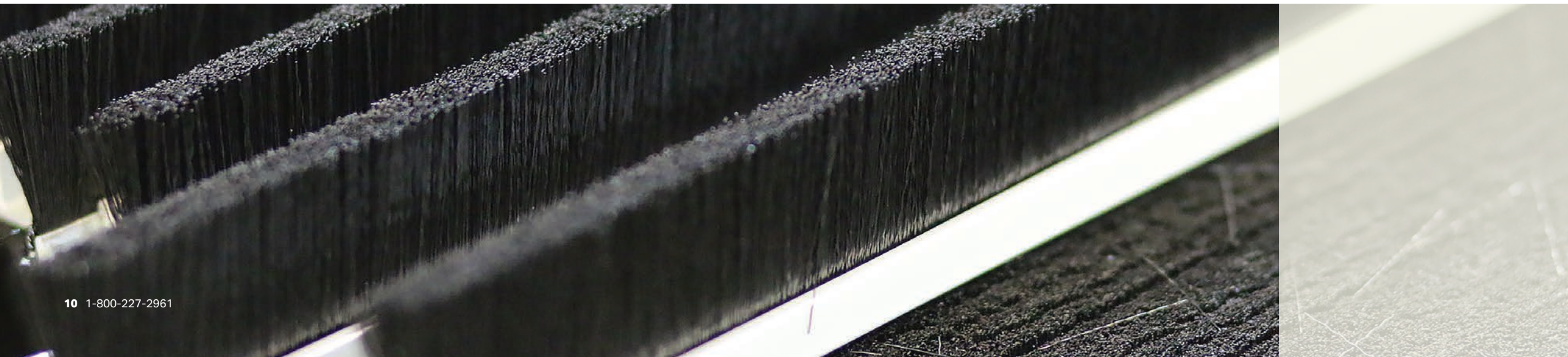
Triangular Stainless Steel Backing

| Product # | Fill Material | Overall Trim | |
|----------------------|---------------------------|--------------|------|
| | | Min. | Max. |
| Crimped Nylon | | | |
| 8B9057 | .014 White - FDA Approved | 7/8" | 3" |
| 8B9067 | .028 White - FDA Approved | 7/8" | 4" |

| Product # | Fill Material | Overall Trim | |
|------------------------------|---------------|--------------|------|
| | | Min. | Max. |
| Crimped Polypropylene | | | |
| 8B9047 | .014 White | 7/8" | 3" |

| Product # | Fill Material | Overall Trim | |
|-------------|-----------------------------|--------------|--------|
| | | Min. | Max. |
| Wire | | | |
| 8B9077 | .010 Stainless Crimped Wire | 2-1/2" | 2-1/2" |

For special order custom-brush requests, please call Customer Service at **800-227-2961** or visit www.fullerindustriesllc.com. Available in lengths up to 144 inches except as noted.



▲ Fuller Custom Brush - #7 Polypropylene Brush is Classified to U.S. and Canadian standards by Underwriters Laboratories, Inc. for application to hollow metal, steel covered composite, rolling steel and passenger elevator type fire doors rated up to three hours only. R25265

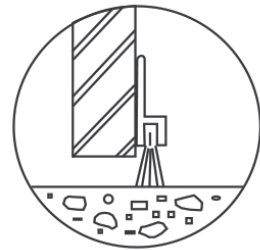
Brush Seals

The safe and effective way to provide superior barriers: Thousands of bristles in the brush strip conform to irregularities in most surfaces far better than vinyl or rubber strips. Brushes last longer too, and effectively seal without taking on the shape of a variety of surfaces. Brush seals are available in a wide variety of bristle trim lengths and strip sizes for almost any application.

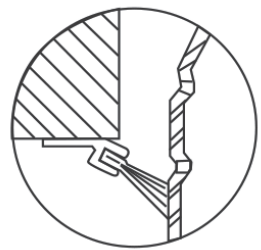
Mounting extrusions complete the package and are available in straight, angled, or 90-degree configurations. These aluminum extrusions provide a continuous holder for the brush strips and assure that the seal will remain in place.

Our Custom Brush division also offers special polypropylene filaments for application to hollow metal, steel-covered composite, rolling steel, and passenger-elevator-type fire doors rated up to three hours only.

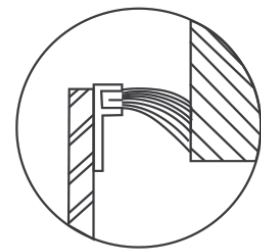
Select the Best Holder Design for Optimum Sealing Performance



STRAIGHT



ANGLED



90° ANGLE

FULLERGRIP™ BRUSH SEALS OPTIMIZE ANY FACILITY

- **Control Air Flow:** provide an effective physical barrier to control heating and cooling.
- **Pest Control:** keep insects and rodents outside the facility.
- **Control Dust:** seal buildings, computer rooms, machinery, and filtration systems from dust and other particles.
- **Control Light:** reduce or eliminate light transfer.
- **Control Sound:** effectively reduce the ill effects of sound infiltration from manufacturing areas to office areas, test labs, etc.



Brush seals can block dust and drafts to protect the servers that hold the data for an entire business. But they've also proven themselves in other ways, such as keeping out debris and pests, delivering an effective seal on rough or uneven surfaces, and also providing protection while not impeding mechanical movement. And because our brush seals are custom made they can fit any application exactly.

We've Been Perfecting Brushes for Nearly 120 Years

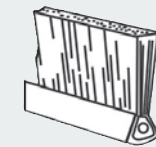
Like any seemingly simple manufactured product, high quality is only realized if every component is of superior design and created with passion and expertise. Take our patented channel strip as an example. Fuller pioneered and developed the principle of the continuous strip. This patented brush construction firmly anchors brush filaments in place, thus providing greater density, uniformity, and durability when compared to staple tufted brushes. A Fullergript strip can be used as a straight strip, coiled, spiraled, or formed into almost any shape.



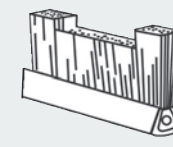
FORMED CHANNEL DIMENSIONS

| Backing # | Channel Shape | Backing Size | X-Base Width | Y-Channel Height | Strip Material | Availability |
|-----------|---------------|--------------|--------------|------------------|---|---------------|
| 2T | Triangular | 1/4 | .107 | .094 | CN Cupro Nickel | Special Order |
| 2.5T | Triangular | 5/16 | .125 | .130 | GS Galvanized Steel | Standard |
| 3T | Triangular | 3/8 | .145 | .157 | GS Galvanized Steel SS 304 Stainless Steel A Aluminum | Standard |
| 4T | Triangular | 1/2 | .195 | .198 | GS Galvanized Steel SS 304 Stainless Steel A Aluminum | Standard |
| 5T | Triangular | 5/8 | .240 | .250 | GS Galvanized Steel SS 304 Stainless Steel A Aluminum | Standard |
| 5O | Oval | 5/8 | .280 | .234 | GS Galvanized Steel | Special Order |
| 6T | Triangular | 3/4 | .280 | .313 | GS Galvanized Steel SS 304 Stainless Steel | Special Order |
| 6O | Oval | 3/4 | .255 | .261 | GS Galvanized Steel SS 304 Stainless Steel | Special Order |
| 7T | Triangular | 7/8 | .315 | .352 | GS Galvanized Steel SS 304 Stainless Steel A Aluminum | Standard |
| 7O | Oval | 7/8 | .330 | .344 | GS Galvanized Steel | Standard |
| 10T | Triangular | 1-1/4 | .460 | .500 | GS Galvanized Steel SS 304 Stainless Steel A Aluminum | Special Order |
| 12T | Triangular | 1-1/2 | .480 | .510 | GS Galvanized Steel A Aluminum | Special Order |

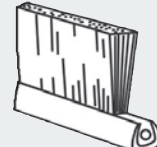
TRIM OPTIONS



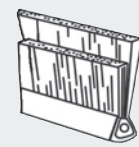
FLAT
The industry's standard, and our most common trim.



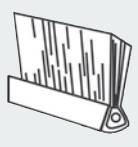
NOTCHED
Uniform brush contact for brushing irregular surfaces.



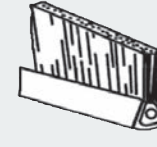
SHAVED END
End of strip as a holding area.



OFFSET
Less density at the surface with back support.

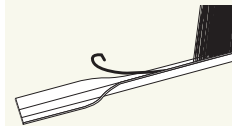


BEVELED
Reduces brush resistance and conforms to the surface being brushed.

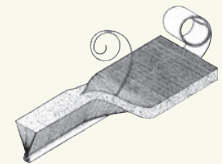


TAPERED TRIM
Guiding material or filling angled openings.

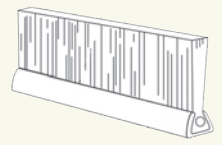
BUILT TO LAST



BACKING
Strip metal (steel, stainless steel, or aluminum) forms the indestructible backing for Fullergript brushes. The fill material is laid over the heavy-gauge metal which is being formed into a U-shaped channel. The table at left lists standard channel sizes and basic dimensions of metal strip brushes.



CENTER WIRE
Strong, durable wire runs the entire length of the strip. Inserted over the fill material and forced down into the formed channel, the wire causes the fill to become vertical as the strip closes over the wire and fill.



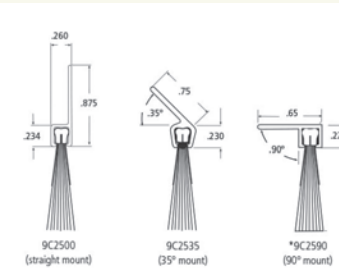
FILL MATERIAL
The versatility of Fullergript allows the use of many materials to provide the most efficient brushing action. Materials include: horsehair, fiber, steel wire, bronze wire, stainless steel, nylon, polypropylene, and other synthetics—as well as mixtures of these materials.

Aluminum Holders Custom Brush Stock Program

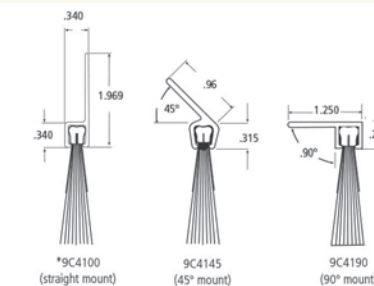
It's ingrained in our DNA to offer a solution for every customer, no matter the challenge. Often that objective is just a fast turnaround. Our Custom Brush Stock Program is designed to solve these requests. The following brushes are available to ship within 48 hours and trimmed to your overall specifications.

WE KNOW HOW TO IMPROVE BRUSH PERFORMANCE

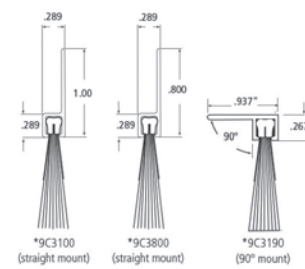
with different fill material choices or trim. Just ask, we're glad to take a look at your specific needs.



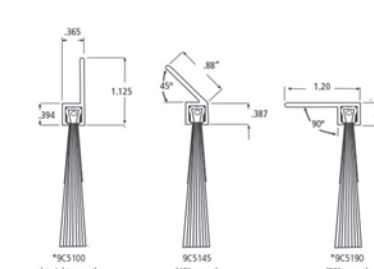
Fits No. 2 Brushes



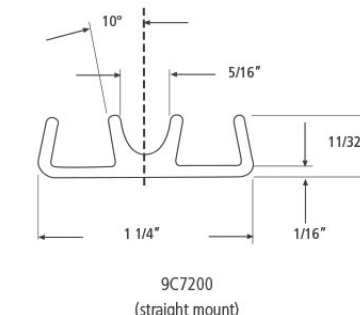
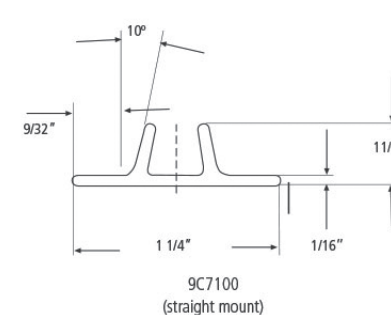
Fits No. 4 Brushes



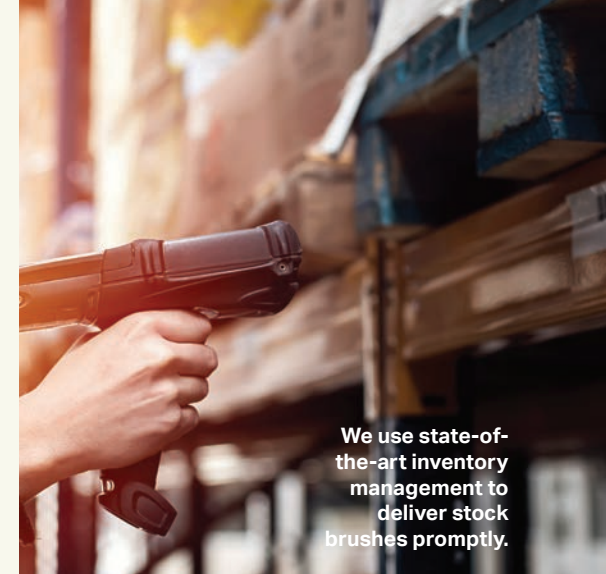
Fits No. 3 Brushes



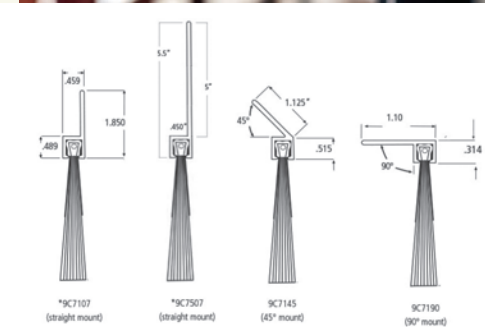
Fits No. 5 Brushes



Fits No. 7 Brushes




We use state-of-the-art inventory management to deliver stock brushes promptly.



Fits No. 7 Brushes

All holders are mill-finished aluminum unless noted by * which indicates Clear Anodized Finish.

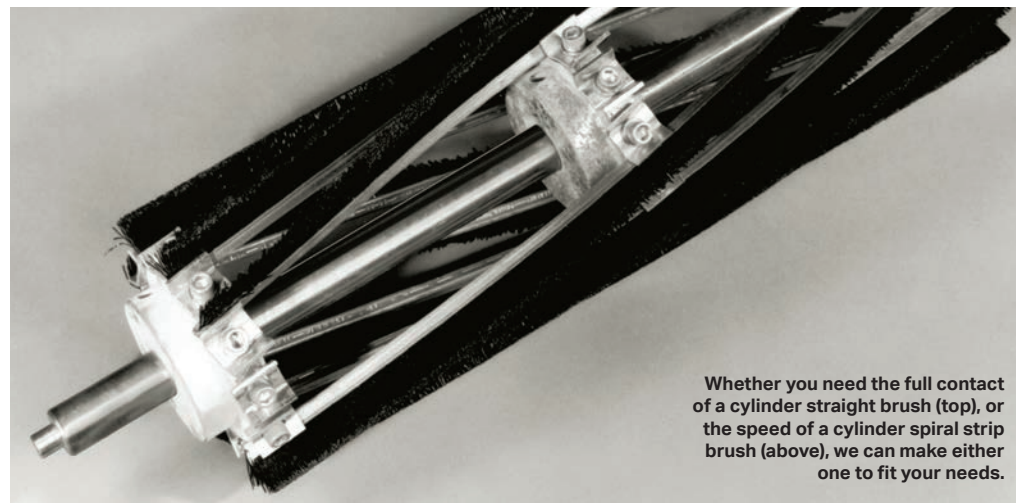
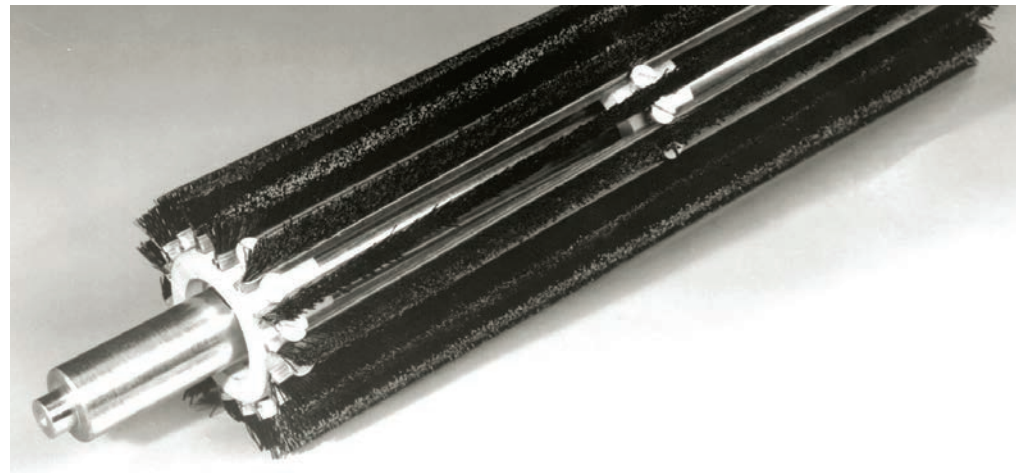




The aeronautical industry takes its construction and maintenance very seriously, and several industry leaders rely on Fuller Custom Brush to supply the tools necessary to complete complex tasks. Whether it's applying adhesive or lubricant or removing debris or corrosion, our brushes are designed to get in to the tightest spots and deliver the results, every time.

Our Cylinder Strips Get the Job Done

The cylinder straight brush remains the workhorse in the industry for powered conveyor cleaning, focusing on general cleaning and applications where liquids are used. Yet there is nothing “general” about how Fuller engineers and manufactures our U.S. cylinder straight brushes. Our quality construction provides longer brush life and lower replacement frequency. Through our custom stock program we offer a wide variety of fill materials and mounting flanges for cleaning versatility.



Whether you need the full contact of a cylinder straight brush (top), or the speed of a cylinder spiral strip brush (above), we can make either one to fit your needs.

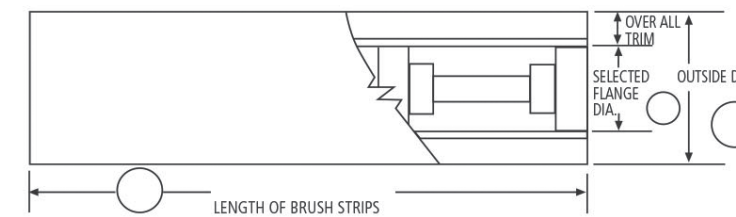
Don't be intimidated by the idea of figuring out the spec for any brush. We can work with you to figure out every dimension.

HOW TO ORDER A FULLER CYLINDER STRAIGHT BRUSH

- Outside diameter will equal the flange diameter plus two times the brush strip's overall trim.
- Select the flange diameter, type, and arbor hole size.
- Determine overall length and outside diameter of required brush assembly.
- Select brush strip and overall trim.
- Order sufficient number of flanges based on assembly length.

THE BRUTE DIFFERENCE:

- Wide variety of fill materials
- Lengths up to 144 inches, cut to your specifications
- 6 to 16 strips within 360 degrees
- Refillable design
- Flanges and brush strips available from stock
- Increase productivity and lower maintenance costs



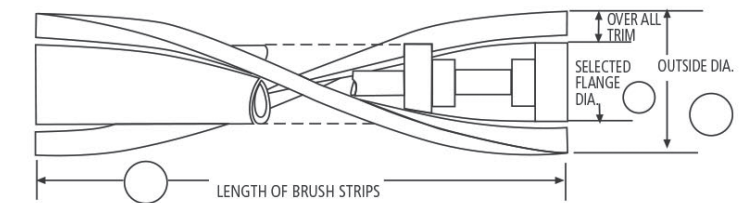
To ensure the best brush product for your application, be sure to include the essential dimensions.

PICK UP THE PACE WITH THE CYLINDER SPIRAL STRIP

Designed for higher speeds and vibration-free use. The spiral brush concept provides continuous brush contact to the cleaning surface at a fraction of the cost of a full-face brush. Continuous contact promotes efficient cleaning and uniform abrasive action. The Fuller Cylinder Spiral is proven to provide many hours of service while protecting the integrity of your products.

HOW TO ORDER THE CYLINDER SPIRAL STRIP:

- Outside diameter will equal the flange diameter plus two times the brush strip's overall trim.
- Select the flange diameter, type, and arbor hole size.
- Determine overall length and outside diameter of required brush assembly.
- Select brush strip and overall trim.
- Order sufficient number of flanges based on assembly length.
- Determine degree of spiral. A 30-degree spiral per foot of brush strip is recommended.



To ensure the best brush product for your application, be sure to include the essential data.

THE HUSTLER DIFFERENCE:

- Wide variety of fill materials
- Lengths up to 144 inches, cut to your specifications
- 6 to 16 strips within 360 degrees
- Refillable design
- Flanges and brush strips available from stock
- Increase productivity and lower maintenance costs

CYLINDRICAL BRUSHES ARE PERFECT FOR:

- Continuous motion cleaning
- Spreading liquid evenly, such as finish or adhesive
- Material handling for manufacturing
- Large area surface preparation, such as dusting or removing debris
- Agriculture applications including fruit and vegetable handling and processing

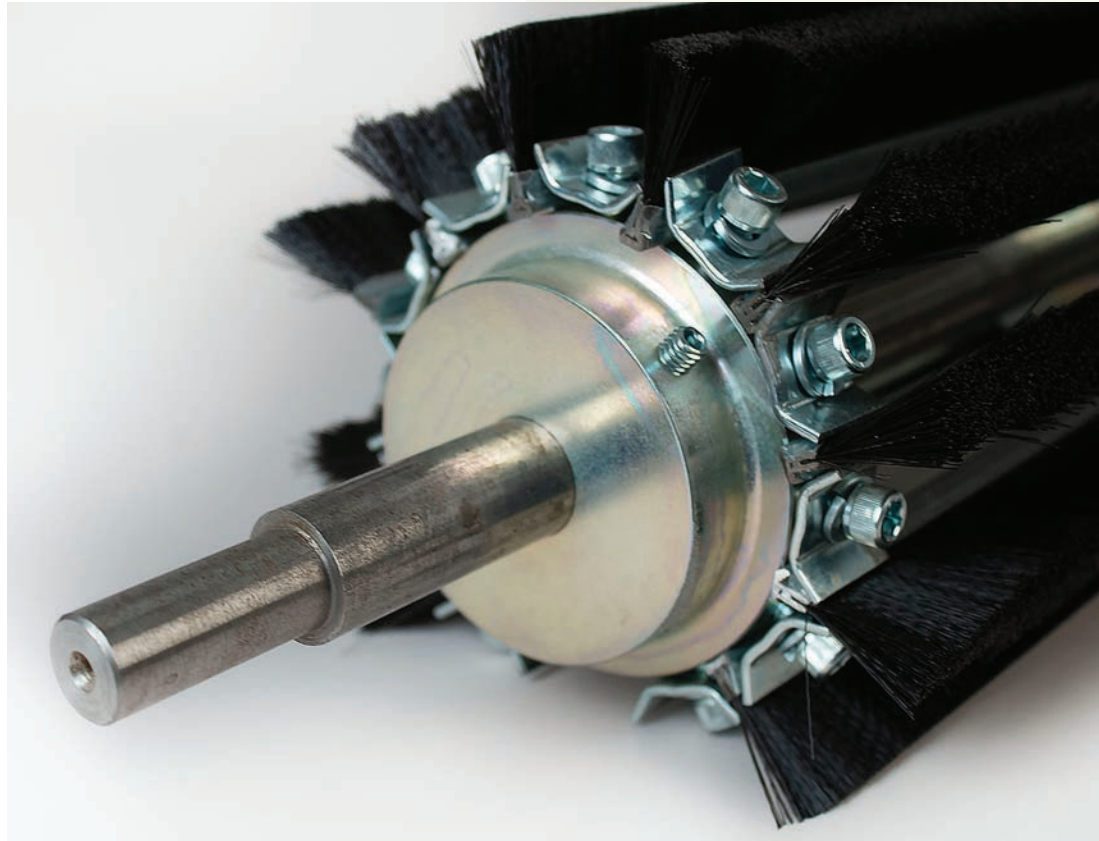
Cylinder Mounting Flanges

Let us help you design a mounting flange to suit any need.

To complement the Brush Strip program, Fuller offers a wide selection of mounting flanges to ensure proper brush installation and operation. All flanges are designed to accommodate brush strips with No. 7 backing (see page 10). A variety of flange diameters, arbor-hole sizes, and strip capacities are offered. Flanges are complete with all necessary hardware. Design assemblies for light-duty cleaning or full-face density, depending on your choice of flanges and number of strips used. Recommended spacing of flanges is one every eight inches plus one to start. For example, a 24-inch assembly requires four flanges.

Since hubs become permanent fixtures on the shaft, replacement of worn strips with new refills is a simple operation—but for BEST and FAST results, remove and assemble in groups of (2) strips for every clamp around perimeter of hub.

CAUTION: Spacing between hubs should never exceed 9 inches from face to face of adjacent hub. Thread-locking adhesive can be used to hold screws more securely if your application requires it.



OUR CLIENTS WILL BE THE FIRST TO TELL YOU:

Sometimes it's the fill, and sometimes it's the space in between. No matter of what really makes the difference in the effectiveness of our cylinder strip brushes, we know they work. We build them to the spec the client needs, with our Fullergript brush strips held in place in one of four different hub configurations with bore sizes to suit nearly any shaft.

360

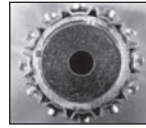
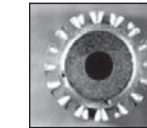
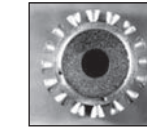
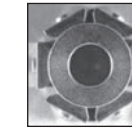
The number of degrees the brush strips pass through on each rotation, whether there are three strips mounted on the cylinder, or twelve.

| RECOMMENDED SHAFT SIZES | |
|-------------------------|-------------|
| Shaft Diameter | Max. Length |
| 1" | 54" |
| 1-1/16" | 58" |
| 1-1/8" | 62" |
| 1-3/16" | 66" |
| 1-1/4" | 70" |
| 1-5/16" | 74" |
| 1-3/8" | 78" |
| 1-7/16" | 82" |
| 1-1/2" | 86" |

ASSEMBLY INSTRUCTIONS

- Place first hub on shaft and lock with set screws at preselected location from one end of shaft.
- Slide remaining hubs on shaft. While still loose, space approximately 8 inches apart.
- Insert two (2) preformed strips into clamps on all hubs, make certain wedge devices rest above and between strips. Only fasten strips at first hub (end of strip flush with face of hub), which is already secured to shaft.
- Allow spiral in strips to set brush helix. Move last loose hub to opposite end of the temporarily installed two strips—keep ends flush with face of hub—tighten strips into clamp. Check brush length and adjust hub laterally as needed. Lock hub in place with set screws.
- Equally space remaining center flanges and secure with set screws. Tighten two (2) strips into clamps.
- Install balance of strips in groups of two (2), into clamps and lock at each flange location.
- Recheck all clamping screws and hub set screws for tightness.

STANDARD FLANGE STYLES



| Part Ref | 9C9001 | 9C9003 | 9C9010 | 9C9412 |
|-----------------|--------------------|--------------------|--------------------|--------------------|
| Type | Solid Wedge | Screw | Screw | Open Wedge |
| Flange Diameter | 2" | 3" | 2" | 4" |
| Arbor Hole Size | 1" or 1-1/8" | 1" or 1-7/16" | 1" | 1" to 2-1/4" |
| Strip Capacity | 6 | 8 or 16 | 10 | 12 |
| Strip Style | Straight or Spiral | Straight or Spiral | Straight or Spiral | Straight or Spiral |

Custom Bore sizes available—contact Fuller sales for assistance



Fuller's Coil Brush: Leading Through Innovation

When Fuller Custom Brush originated the Fullergript® design, a revolutionary brush-making process was created. The Fullergript approach provides an economical means of incorporating brush technology into a wide range of modern commercial applications. By winding Brush Strip on a mandrel or shaft, a coil brush is produced. Brush density can be varied by your choice of backing size.

The amount of fill material increases proportionately with the size of the backing. The lead of the coil (distance between wraps) affects the working surface of the brush and its performance. Consistent or continuous brush-to-work-surface contact requires a close-wound coil (no lead), while an open lead is recommended when working with aggregate, grain, or debris. Coil brushes can be custom-designed for your application and mounted on your core. Replacement coil brushes are also available for mounting at your location. Whatever your need is, Fuller can design a brush for you. Choose from our wide selection of backing and fill materials to develop an efficient, quality brush for all of your custom-brush applications.

| PRODUCT # | DESCRIPTION |
|-----------|-------------|
|-----------|-------------|

| | |
|--------|---|
| 8D8104 | 4 INCH I.D. WITH 3 INCH O.A.T TOTAL BRUSH O.D. 10 INCHES |
|--------|---|

| | |
|--------|---|
| 8D8126 | 6 INCH I.D. WITH 3 INCH O.A.T TOTAL BRUSH O.D. 12 INCHES |
|--------|---|

| PRODUCT # | DESCRIPTION |
|-----------|-------------|
|-----------|-------------|

| | |
|-----------|--|
| 9C8104-23 | HUB SET: 4 INCH O.D. WITH 1-7/16 INCH BORE |
|-----------|--|

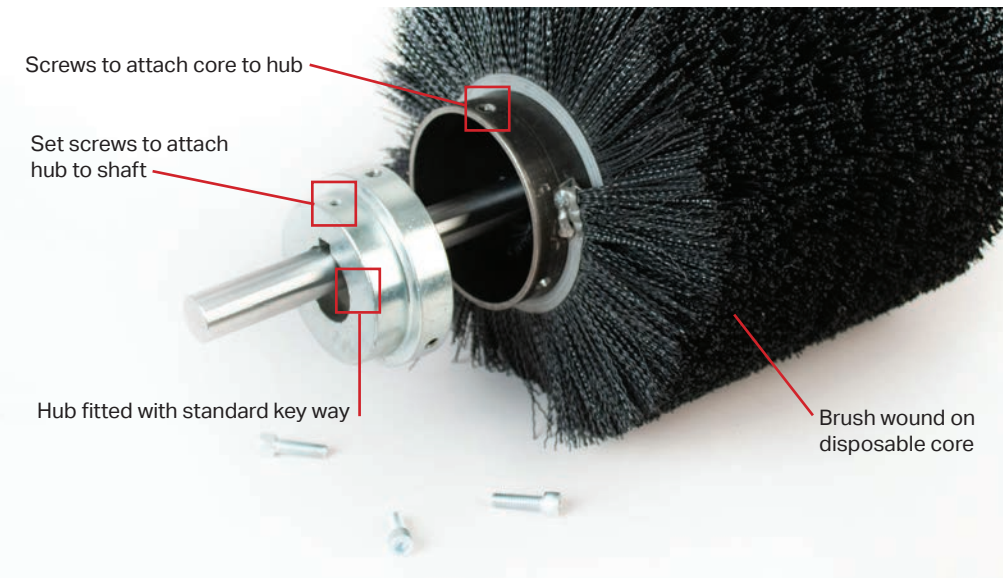
| | |
|-----------|---|
| 9C8126-31 | HUB SET: 6 INCH O.D. WITH 1-15/16 INCH BORE |
|-----------|---|

DISPOSABLE COIL

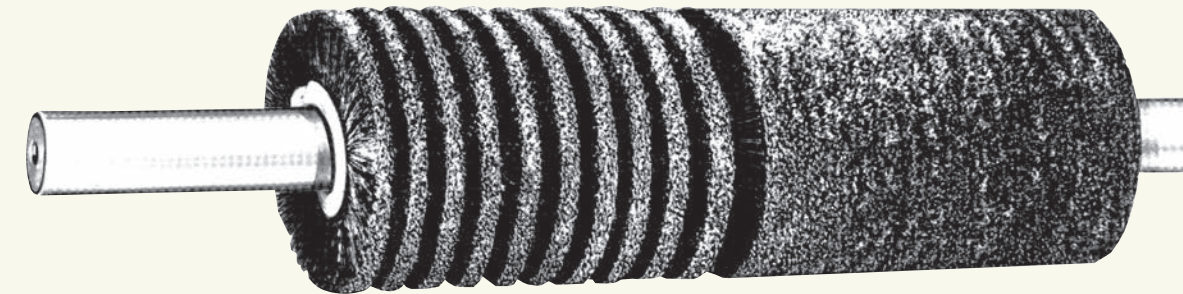
A continuous metal back strip brush coiled on and welded to a light-wall steel tube. Completely disposable, no core to return. Designed for many hours of trouble-free service. This brush is custom made to fit your process.



Brush face should be wide enough to overlap each side of the belt surface by 1 inch to ensure complete coverage. Brush lengths available from 12 inches to 144 inches. Disposable Coil Brush Assemblies are designed for many hours of trouble-free service, and are easy to install, eliminate down time, and improve quality, productivity, and safe operation. Brushes are mounted to a thin-wall steel core available in 4-inch or 6-inch diameter. Hub sets are available to fit the core.



OPEN WOUND COIL



CLOSED WOUND COIL

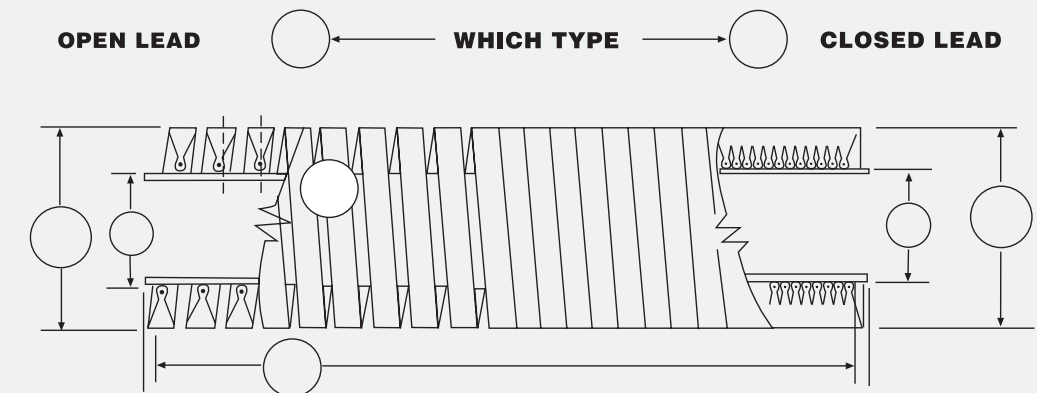


Choose a closed-wound coil if the application requires continuous contact between the bristle and the work. An open-wound coil is the choice when the brush is to be used on grain or debris, as the gaps between coils let the kernels or chunks move through.



There's a very good reason we describe the Fullergript brush as, "Strong as steel, workable as wire" and our custom coil brushes take this robust construction to the next level. That's because the coil brush makes the most of the durability of the design, while taking on just the shape needed for our customer's application. As with every custom brush, fill and trim are made to order. And best of all, that durable steel, stainless steel, or aluminum backing ensures that shape is held for the life of the brush. And that's a long time.

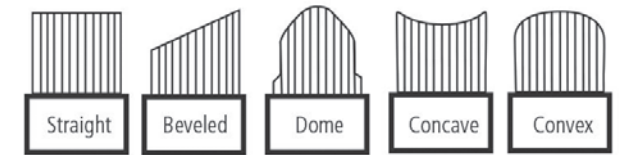
While a coil brush may seem complicated to design, we at Fuller Custom Brush can think of few undertakings that are as worthwhile. Coil brushes have a robust design that delivers durability and performance—they're built to do the job and be in constant motion as the task requires. And we're here to help, so even the most complex configurations will seem simple as we walk through the steps together. It happens all the time: Our customers get the design dialed in, and we're able to send out the replacement in short order, to the exact specification.



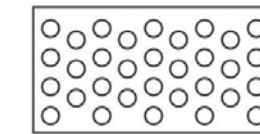
Don't be fooled by the seeming simplicity of a Staple Set brush: The possibilities available are virtually endless, from hole configuration and fill type and density, to trim length and shape.

Staple Set Custom Brushes

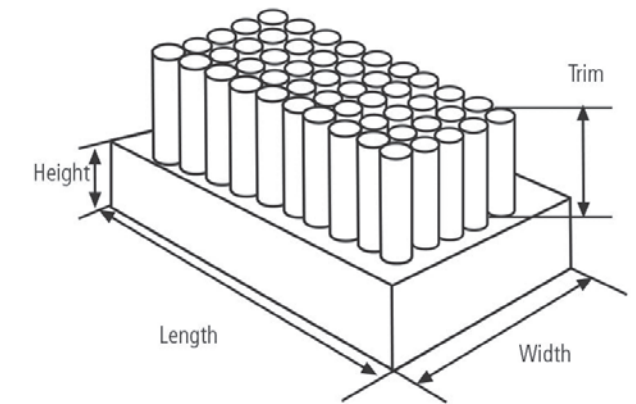
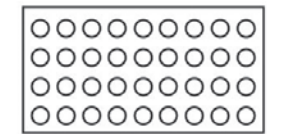
Staple set brushes are manufactured with straight or staggered hole-pattern designs, and with a variety of fill material. There are many trim shapes to choose from (illustrated at right) depending on the brush application. The block is made of wood or synthetic material. The manufacturing of a staple set brush is unique. A wooden or synthetic block is put on the stapling machine and a programmed hole pattern is drilled into the block. When the drilling is complete, each hole is filled with a tuft of the fill material, secured in place with a staple. The staple is made out of steel, stainless steel, or brass.



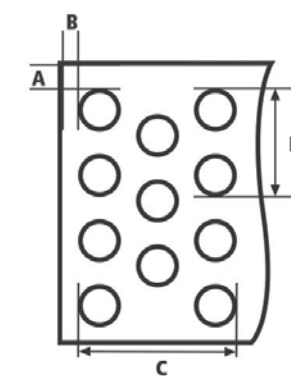
Staggered



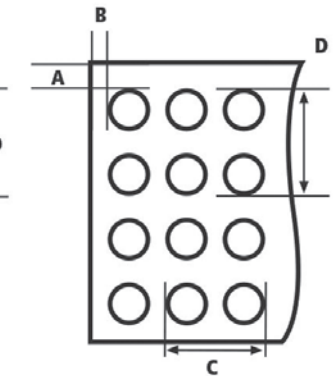
Straight



Custom Staple Set Brush



A. Distance of Row to Edge (Length)
B. Distance of Row to Edge (Width)



C. Hole Spacing (Length)
D. Hole Spacing (Width)



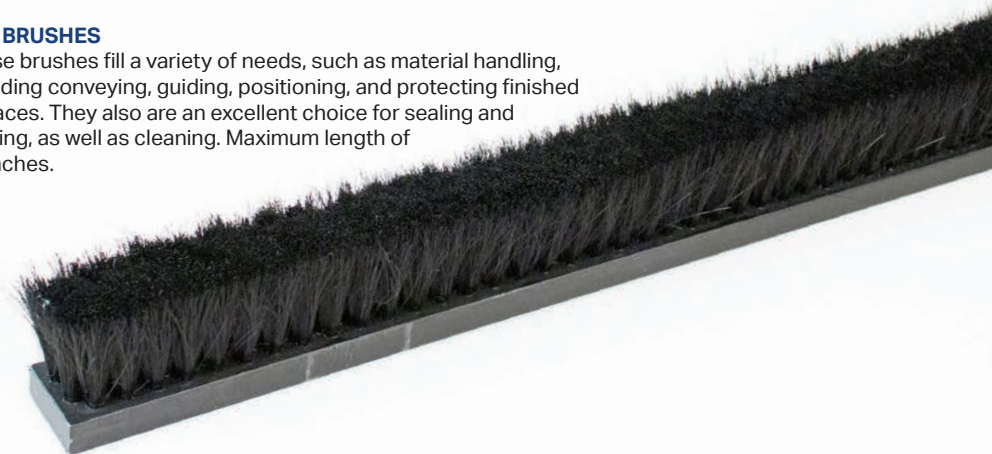
Tufted-Brush Solutions

We design and fabricate tufted, staple-set brushes for numerous applications in lag brush, disc brush, and cylinder brush configurations. These brushes offer many of the special qualities that make a brush the go-to answer where other solutions fall short. Because the density of fill can easily be manipulated with hole configuration and size, each of these brushes can be designed to meet a wide variety of specifications. Add in our many trim choices and the possibilities are virtually endless. Because they're backed in wood or plastic, each of these three brushes offers durability in a lighter weight, and can take on many assignments with ease, reducing wear on bearings and motors, and often at a reduced cost from other brush categories.



LAG BRUSHES

These brushes fill a variety of needs, such as material handling, including conveying, guiding, positioning, and protecting finished surfaces. They also are an excellent choice for sealing and filtering, as well as cleaning. Maximum length of 98 inches.



APPLICATIONS

These brushes work extremely well in the material handling area, where they handle soft fruits, don't mar polished surfaces, and keep product positioned properly on conveyor systems.

They can be used to apply finishes and stain, container labels, or treatments to livestock.

These brushes can be used to sweep floors, streets, or artificial turf.



Lag Brush Attributes

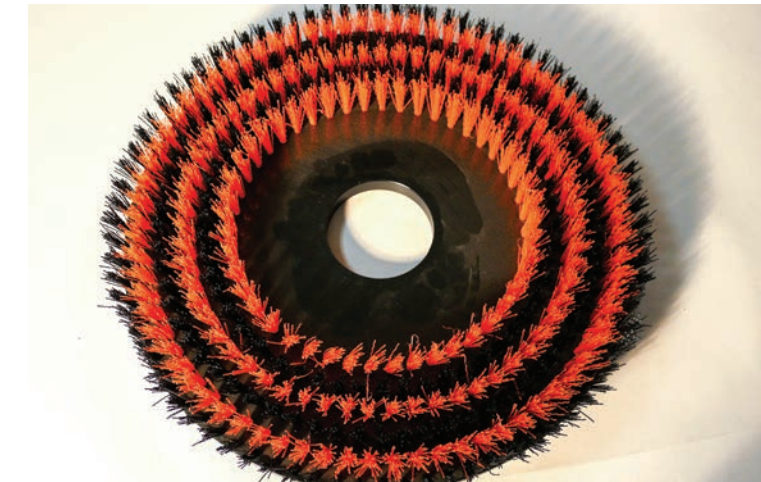
- Staggered or straight hole configuration
- Hole size and separation options offer a variety of bristle densities.
- Fill options and trim considerations help meet exact specification.
- Backing shape can be customized to fit bracket or holder.

DISC BRUSHES

Designed for rotational applications, including cleaning, sweeping, and polishing. Two-color fill is available. Maximum outside diameter is 35.4 inches.

Attributes

- Can be built with virtually any hole size and configuration, including staggered or straight, making the fill density eminently customizable.
- Multiple angles mean bristles can be positioned to push material out and away from the center or draw it in, depending on application.
- Comparatively lightweight backing material reduces wear and tear on bearings and machinery for longer service and reduced downtime.
- Fill options and trim considerations help meet exact specification to replace OEM brushes.



CYLINDER BRUSHES

Often used in material handling, including conveying, and guiding, as well as spreading, finishing, and polishing. Maximum length is 120 inches and maximum outside diameter is 35 inches.

Attributes

- Hole angle and configuration can move material in specific directions, while a strip hole configuration allows more efficient operation at higher speeds.
- Lightweight cylinder material requires less powerful motor and introduces less wear on bearings or supporting mechanisms for reduced downtime.
- Fill options and trim considerations help meet exact specification requirements to replace OEM cylinder brush.
- Properly designed tufted brushes meet performance requirements and frequently prove durable and therefore meet budget considerations.





Everyone knows, farmers can fix anything. Unfortunately, that's because they often break a lot of stuff they need. We work with the agriculture industry in a number of ways to deliver brushes with a range of capabilities, from seed metering, to seals, to materials handling, harvesting, and maintaining machinery and equipment. And it doesn't hurt that we've known a farmer or two in our day: We speak their language.

Twisted-in-Wire Custom Brushes

Twisted-in-Wire brushes are manufactured in various types of shapes and fill material. The fill material is twisted between two coated or stainless steel wires which create a single-stem, single-spiral construction. The brush face can be manufactured up to 50 inches. Twisted-in-Wire brushes are designed in the various shapes and tip styles illustrated on the page opposite. The brush tip selection depends on the specific application and fill material. For further assistance, please call our technical sales representatives or fill out an online design form with your specifications.



Twisted-in-Wire brushes offer a surprising array of options including a taper-cut tip (top), and a loop-end handle (above).



Beyond the Bottle: These brushes offer a durable solution with a business end that's designed to do the job at hand.



| | | TIP STYLES | | | |
|------------|----|--|-----------------|---------------|---------------|
| | | CUT TIP | TAPERED CUT TIP | FAN TIP | LOOP TUFT |
| END STYLES | A | LOOP END A-CT | A-TCT | A-FN | NOT AVAILABLE |
| | B | CUT END B-CT | B-TCT | B-FN | B-E |
| | C | CUT BOTH ENDS C-CT | C-TCT | NOT AVAILABLE | NOT AVAILABLE |
| | D | NO SPACE BETWEEN HANDLE AND BRUSH FACE D-CT | D-TCT | D-FN | D-E |
| | DX | SPACE BETWEEN HANDLE AND BRUSH FACE DX-CT | DX-TCT | DX-FN | DX-EX |

Keep Your Bakery Conveyor Clean with the Sentry Series



Our conveyor cleaning brushes are designed specifically to eliminate build-up and carry-over on wire rod cooling conveyor systems. This provides an affordable approach to reducing your bakery conveyor cleaning challenges. Our experts recommend two brush assemblies for each conveyor (one over/one under). Continuous cleaning action will also keep rods free of all foreign matter.

ORDERING INFORMATION

| PRODUCT # | DESCRIPTION |
|------------|---|
| 8A1155-12 | Normal brushing action, .012 crimped red nylon, 3-1/2" outside diameter. 28" long. |
| 8A1155-15 | Normal brushing action, .012 crimped white nylon, 3-1/2" outside diameter. 28" long. |
| 8A1155-19 | Heavy brushing action, .018 crimped white nylon, 3-1/2" outside diameter. 28" long. |
| 8A1155-38 | Extra-Heavy brushing action, .028 crimped green nylon, 3-1/2" outside diameter. 28" long. |
| 8A1104-102 | Extra-Heavy brushing action, .028 crimped black nylon, 3-1/2" outside diameter. 28" long. |
| 8A1104-123 | Extra-Heavy brushing action, .028 crimped white nylon, 4" outside diameter. 28" long. |
| 8A1104-682 | Extra-Heavy brushing action, .028 crimped green nylon, 1/2" outside diameter. 36" long. |

Brushes supplied in standard 28-inch lengths. Coiled to fit 1/2-inch diameter shaft. Can be cut to fit individual needs. Mounting accessories available from stock. This brush can be compressed or expanded to fit 11-inch to 29-inch conveyors.

SENTRY SERIES – CONVEYOR CLEANING ACCESSORIES

SHAFT

| PRODUCT # | DESCRIPTION |
|-----------|--|
| 9C6004-1 | Polished steel shaft, 36" in length, 1/2" in diameter. |

EYE BOLT BEARING SET

| PRODUCT # | DESCRIPTION |
|-----------|---|
| 9C6004-3 | Bearing hanger for stationary shaft installation. Bronze bushing. Complete with hex nuts. 1/2" inside diameter. |

MOUNTING BRACKET SET

| PRODUCT # | DESCRIPTION |
|-----------|--|
| 9C6004-2 | Universal mounting bracket. Predrilled. Complete with nuts, bolts and washers. Use with 9C6004-3 eye bolt bearing. |

ZERO CLEARANCE CLIP SET

| PRODUCT # | DESCRIPTION |
|-----------|---|
| 9C6004-14 | Two wire clips formed to secure a Sentry Brush to a 9C6004-1 shaft. |

For standard mount use:
 • 9C6004-1 • 9C6004-3 • 9C6004-2 • 9C6004-14

12 FEATURES THAT MAKE FULLER BETTER:

- Cleans conveyor while it operates
- Zero clearance mounting clips
- Quick change mounting brackets
- No separate power drive needed
 - Easy to install
 - Easy to clean
- Resists bacteria growth
 - Easy to refill
- Optional bolt mounting for rigid application
 - Maintenance free
 - Available from stock
- Color coding available red, green, white and black

Bakery Cleaning Brushes That Keep Up the Pace



BUN PAN BRUSH

This effective and reliable brush easily removes sesame seed by agitating seeds from the pans' upper surface. Once dislodged, seeds may be easily carried off by a vacuum system. May also be used for dusting or applying glazed finishes on bakery items. Fits 1" shaft and can be used on Kraft Tandem 550 machines.

BUN PAN BRUSH

| PRODUCT # | DESCRIPTION | DIMENSIONS |
|-----------|--|------------|
| 8A1107-56 | Nylon, steel backing .014 crimped white nylon | 10" x 22" |

GUARDSMAN CONVEYOR CLEANING KIT

Continuous cleaning without production interruptions. Clean both sides of your conveyor as it operates. Fits all rod conveyors. Easy installation, no separate power drive required. Shafts and mounting hardware included in kit. No drilling, tapping, or cutting needed. Fits on 1/2-inch shaft.



THE GUARDSMAN CONVEYOR CLEANING KIT

| PRODUCT # | DESCRIPTION | DIMENSIONS |
|------------|--------------------------------------|---|
| 8A1104-277 | Kit, 2 brushes, w/ mounting hardware | 3 1/2" x 36" w/ mounting hardware .028 crimped green nylon |
| 8A1104-272 | Refill, brush only | 3 1/2" x 36" |

OVEN BAND CLEANING BRUSH

Keep your oven band free of build-up. Manual cleaning of band eliminated with aggressive cleaning action of wire brush. Fits on 4-inch shaft.



OVEN BAND CLEANING BRUSH

| PRODUCT # | DESCRIPTION | DIMENSIONS |
|-----------|---|------------|
| 8A1107-41 | Steel wire coil brush .010 oil tempered steel wire | 8" x 39" |
| 8A1107-43 | | 8" x 48" |

* Can be customized to meet your specific oven band requirements.

Your Guide to Filament Selection

■ Synthetic

NYLON-TYPE 6.0

Good bend recovery, abrasion resistance, flex fatigue resistance, and chemical resistance.

NYLON-TYPE 6.6

Similar properties as 6.0 nylon, but better bend recovery and wet stiffness. High heat deflection temperature.

NYLON-TYPE 6.12

Highest-quality nylon with excellent bend recovery. Used in applications that require a low water absorption.

POLYPROPYLENE

Versatile filament for a variety of applications. Excellent wet stiffness. Good bend recovery, but will take a set more easily than other material.

POLYESTER

An economical substitute for Nylon-Type 6.6 and 6.12. Ideal for wet applications since its water absorption is very low. Also excellent bend recovery and solvent resistance.

ABRASIVE NYLON

Nylon monofilament impregnated with either silicone carbide or aluminum oxide. Long wearing material available in several filament diameters and grit sizes.

■ Static Dissipative

NYLON-CONDUCTIVE

Offers excellent performance in static control or

conductive brushes. The conductivity is unaffected by humidity.

THUNDERON®

Specialty acrylic filament bonded with copper sulfide treatment for extremely high level of conductivity. Soft filaments do not abrade surfaces. May be mixed with other materials for increased stiffness.

■ Animal/Plant Fiber

TAMPICO

Derived from the Agave plant grown in Mexico. Natural creamy white color. Unsurpassed in applications requiring liquid retention, scrubbing, and surface finishing.

BASSINE

Dark brown bassine is a coarse dyed fiber from palm trees grown in India. Bassine is an excellent material for heavy-duty scrub brushes.

HORSE HAIR

Black or gray in color. Very good durability. Soft to slightly stiff texture gives scratchless cleaning for highly polished surfaces. Generates minimum static electricity.

GOAT HAIR

Very fine hair often used for short trim soft brushes.

■ Wire

STEEL

High-carbon wire with excellent fatigue resistance.

STAINLESS STEEL-TYPE 304

Highly resistant to corrosion and higher temperatures. Often effective in contamination areas and after-rust areas.

STAINLESS STEEL-TYPE 316

Superior for high corrosion resistance and more effective in highly contaminated applications.

BRASS

Non-ferrous and softer wire compared to steel or stainless steel. Effective for reducing heavy static in a concentrated area.

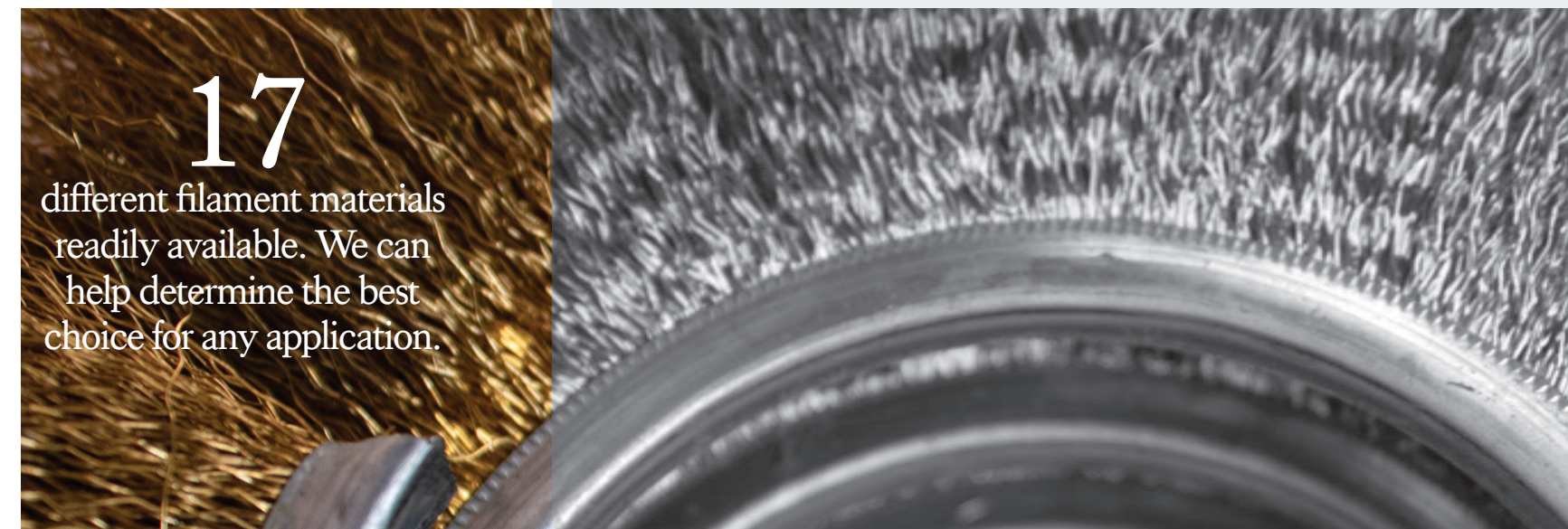
PHOSPHOROUS BRONZE

Non-ferrous wire. Better temper than brass with non-corrosive properties.

FILL MATERIAL COMPARISON GUIDE

E=Excellent G=Good F=Fair P=Poor

| Characteristics | Nylon 6.0 | Nylon 6.6 | Nylon 6.12 | Polypropylene | Polyester | Tampico | Bassine | Horse Hair |
|----------------------------------|-----------|-----------|------------|---------------|-----------|---------|---------|------------|
| Max Temp Usage | 230° F | 250° F | 230° F | 240° F | 250° F | 250° F | 225° F | 375° F |
| Stiffness When Wet | P | P | F | G | E | P | F | P |
| Bend Recovery | G | E | E | G | E | P | P | G |
| Resistance to Abrasion | E | E | E | G | E | P | P | G |
| Resistance to Taking a Set | G | G | G | F | G | F | F | P |
| CHEMICAL RESISTANCE | | | | | | | | |
| Dilute Acids | P | P | P | E | G | G | G | P |
| Dilute Alkalis | E | E | E | E | G | G | G | P |
| Nonflammable Degreasing Solvents | G | G | G | F | G | G | G | P |
| Gasoline Petroleum Distillates | E | E | E | G | E | G | G | P |
| Alcohols, Vegetable Oils | G | G | G | E | E | G | G | P |



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