

## Metal Back Strip Brushes



### BACKING\*

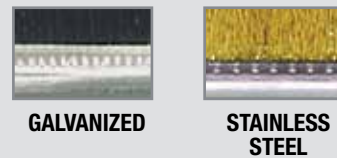


\*Nominal size. See page 36.

### TYPES



### BACKING MATERIAL

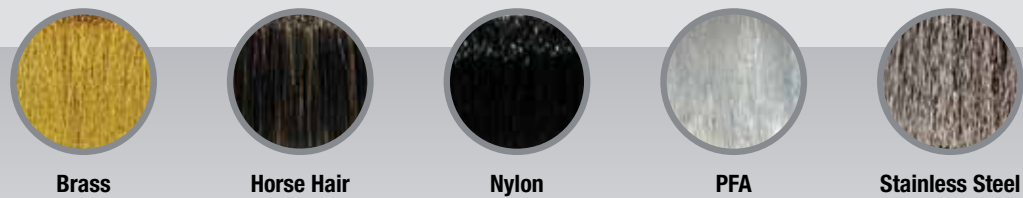


## Flexible Brushes | Rigid Brushes

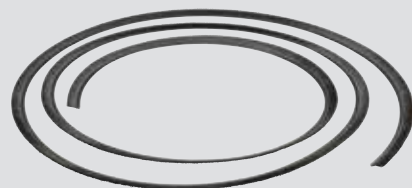
### TYPES



### FILAMENT OPTIONS



## Fuze Flex™ Strip Brush



The Fuze Flex™ is the newest technology in brush seal. Lightweight and ultra-flexible, it is ideal for contours and curves. Available in Polypropylene and Nylon.

## Shapes and Construction

Prior to coiling the brush, a metal back strip brush is made first. Strip brushes consist of densely compressed synthetic, natural bristles or wire filaments laid down over a continuous metal channel formed into a "U" shape. A binding wire is inserted over the filament materials and forced down into the partially formed metal backing. The binding wire causes the fill material to form vertically as the metal backing forms and closes over the binding wire and filament.

### Internal Ring



An internal ring is manufactured by forming a metal back strip brush with the filament material to the inside. The ring can be sprung open to place over a shaft or split in halves or segments to be mounted over a shaft. Ideally used for cleaning the outside surfaces of plastic or metal tubing and rod or used for drum and shaft seals. In high temperature applications, wire filament is recommended.

### External Ring



External rings are metal back strip brushes wound with the filament to the outside. They are used as individual rings or mounted together to make a wide brush face. They are used in various cleaning and polishing applications.

### Formed Cup



A metal back strip brush is formed into a 360 degree circle or segments of a full circle. The backing sides can be formed vertical or at various angles. Generally used for vacuum hose seals, router enclosures for dust and particle collection on drill presses.

### Formed Strip

The metal back strip brush can be formed into irregular shapes. With a range of configurations, strip brushes can be formed into ovals, squares, rectangles, "L" and "V" shapes and compound curves. Formed to meet many shapes and applications.



### Straight Strip



The most economical and common manufacturing shape for metal back strip brushes. Brushes are used individually or mounted parallel on a flat surface for a wider brush face. Applications include window seals, door and dock leveler seals, air flow seals, cable management, engine seals, conveyor cleaning, splash curtains, machine guards, static control, transportation vehicle seals and cleaning glass.

### Coiled



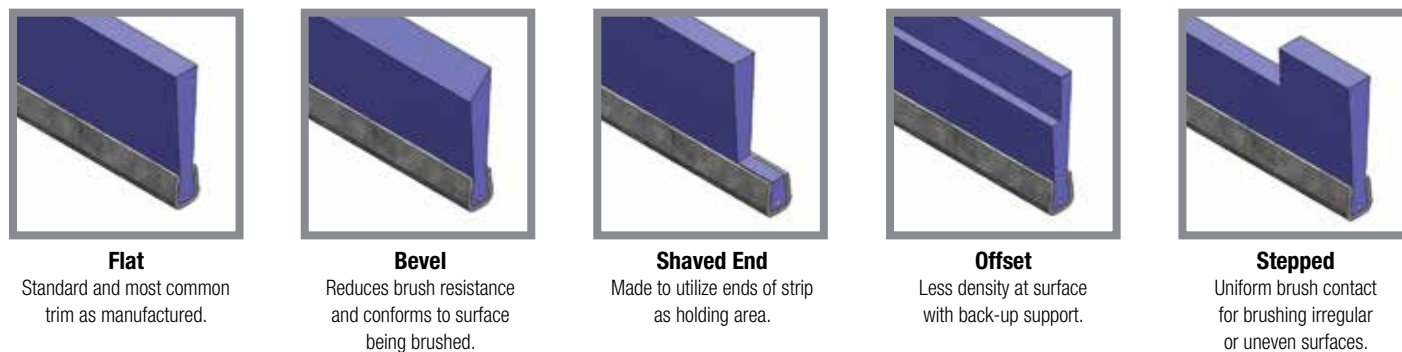
Metal back strip brushes are manufactured into free or loose coils by winding them onto a mandrel or free coiling them. They can be produced as internal or external coils depending on the application and can be made with a close wound, tight coil making an extremely dense brush face or an open wound, loose coil with a lead producing less density in the brush face. Coils are manufactured to replace an existing coil on installed equipment or mounted onto a shaft or tube as a cylinder or rotary brush. Applications include conveyor cleaning, glass washing, vegetable and fruit washing, sheet metal polishing, cleaning trammel screens and used as an auger or screw to move product in a given direction.

### Cylinder or Rotary

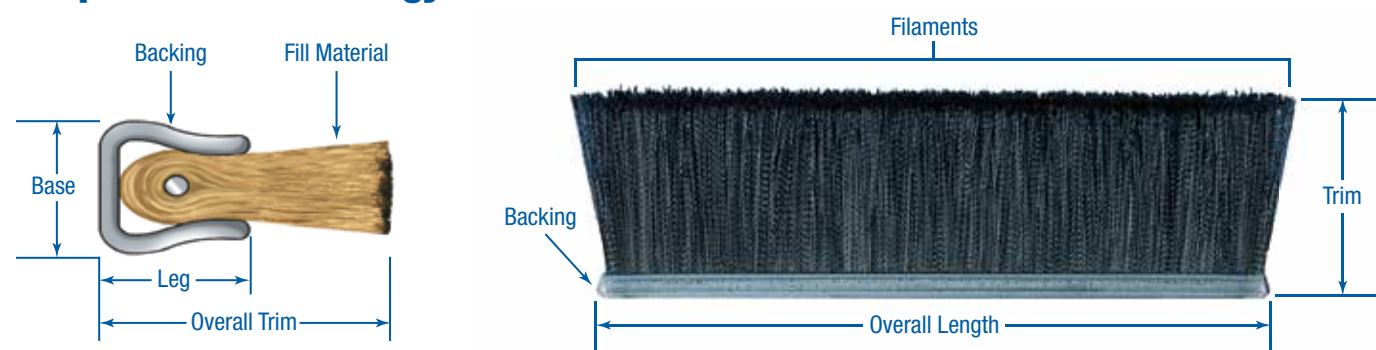


A metal back strip brush is attached and wound directly to a core, shaft or tube. The coil is wound under tension onto a core, shaft or tube for secure mounting, or free coiled and then assembled to the core. A coil can be close or open wound depending on the desired brush density. Dynamic balancing is provided, if required, to assure complete surface contact regardless of the brush size and speed of the brush. Brushes are generally used in conveyor cleaning, glass washing, vegetable and fruit washing, sheet metal polishing, cleaning trammel screens and used as an auger or screw to move product in a given direction.

To order a brush, visit [www.tanisbrush.com/request-quote](http://www.tanisbrush.com/request-quote) or call Customer Service at (262) 646-9000.



## Strip Brush Terminology



SIZE #	BACKING		STANDARD FORMED DIMENSIONS		OVERALL TRIM		SYNTHETIC FILL SIZE RANGE	WIRE FILL SIZE RANGE
	THICKNESS (IN)		BASE (IN) +/- .010	LEG (IN) +/- .015	MINIMUM (IN) +/- .032	MAXIMUM (IN) +/- .032	LEVEL OR CRIMPED (IN)	LEVEL OR CRIMPED (IN)
	GALV	STST						
2	.018	.018	.098	.114	.313	6.00	.003 - .012	-
2.5	.024	.018	.125	.125	.313	6.00	.003 - .020	.003 - .010
3	.022	.018	.150	.160	.313	6.00	.003 - .024	.003 - .010
4	.030	.025	.194	.205	.375	8.00	.003 - .030	.003 - .010
5	.035	.035	.240	.250	.500	8.00	.003 - .045	-
7	.040	.040	.310	.340	.625	12.00	.003 - .120	.003 - .014
8	.048	.040	.340	.402	.875	12.00	.003 - .120	-
10	.048	.045	.440	.473	1.00	16.00	.003 - .120	.010 - .020
16	.050	.050	.625	.689	5.00	16.00	.003 - .120	-



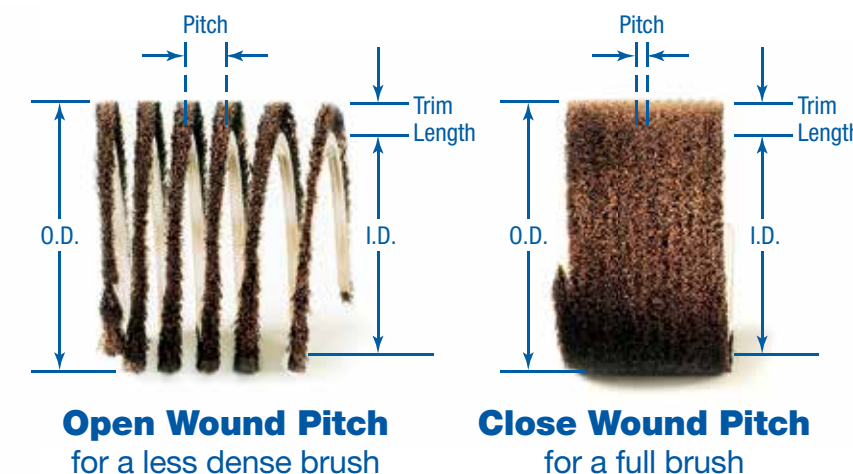
## Metal Back Strip Attachment to Core, Shaft or Tube

After the straight metal back strip brush is formed, the strip is attached to the core, shaft or tube and wound under tension to make the coil cylinder brush. We are able to wind the strip right or left handed at the desired pitch to determine the brush density. Strips can be wound in either an open wound or close wound pitch shown below.

## Loose or Free Coil



## Assembled Coil



## HOLDER OPTIONS

We offer strip brush holders for our metal back strip brushes in extruded aluminum for #2½, #3, #4, #7 and #10 backing sizes, and in formed stainless steel in #4 and #7 backing sizes. A flexible PVC holder is also available for #2½ backing size. The holders are produced with a variety of profile shapes for straight and angled mounting. The different profile shapes ensure the brush is mounted at an optimal position for maximum surface contact and effectiveness.

We stock aluminum holders with clear anodized finishes. The anodized finish provides the aluminum with a naturally protective coating, strengthening the durability and extending the life of the brush holder.

For our stapled set line, the all-in-one designs conveniently include holders, which are available in two styles: Clip Style and h-Profile. The integrated Clip Style backing makes placing and moving the brush fast and easy. The integrated h-Profile allows for quick and easy mounting without needing to purchase a separate holder. We stock flexible PVC holders in Clip Style and h-Profile to match with our new Fuze Flex™ Strip Brushes.

## ASSEMBLED COILS

A finished coil can be assembled to a core, shaft, tube, or free coiled for mounting to the customer's shaft in the field. Assembled coils can be tack welded or attached with an alligator clip to the core, shaft or tube. A larger winding pitch provides a less dense brush and conforms better to the surface being brushed. The photos above illustrate a loose or free coil and an assembled coil brush construction.



## Tack Weld



## Alligator Clip



## Stapled Set Tufted Cylinder and Circular Brushes

Stapled brushes consist of a series of individual tufts of fill material inserted into a bored hole in a solid block of wood or plastic. The tufts of fill material are secured to the block by a wire staple. Stapled set brushes are made with a variety of hole or tuft patterns to obtain the desired brush density and brushing effect. Hole patterns can be made with virtually any brush pattern. See the pictures below illustrating the different brush densities and hole patterns.

As with coil wound cylinder brushes, stapled set brushes can be made with similar core constructions. The plastic or wood core can be press fit to a shaft, made with collars to accept customer's shaft, made with stub ends or ends can be machined and inserted into ends of core. Steel or aluminum tubing can be press fit into the inside diameter of the tube for mounting collars and added support. Bearings can be press fit into circular brushes.

Core material is generally made of a hard wood or plastic. Most common types of plastics used are PVC, delrin, high-density polyethylene, UHMW, ABS or polypropylene.



# **2 1/2**



Nominal size. See page 36.

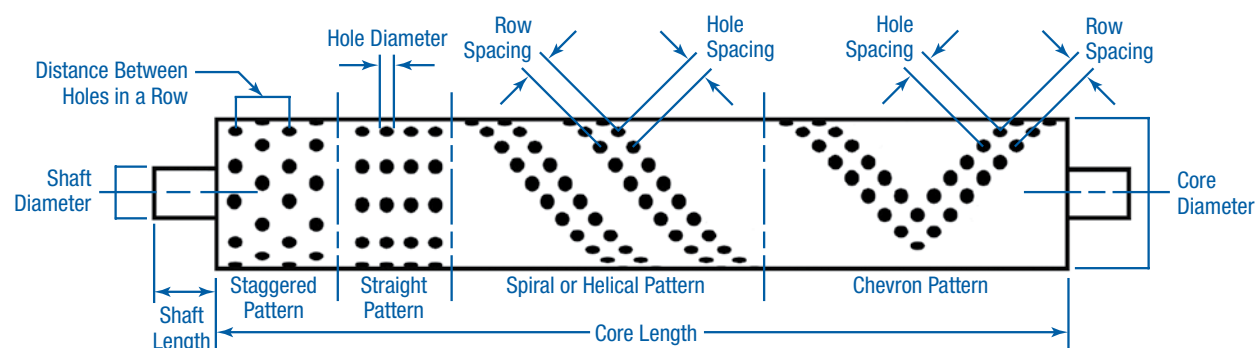
## Nylon Fill/Galvanized Backing



TANIS PART NO.	BACKING SIZE	OVERALL TRIM	OVERALL LENGTH	FILL MATERIAL
MB250036	#2-1/2	3/4"	36"	.006 Crimped Black Nylon
MB250072	#2-1/2	3/4"	72"	.006 Crimped Black Nylon
MB250096	#2-1/2	3/4"	96"	.006 Crimped Black Nylon
MB250236	#2-1/2	1"	36"	.008 Crimped Black Nylon
MB250272	#2-1/2	1"	72"	.008 Crimped Black Nylon
MB250296	#2-1/2	1"	96"	.008 Crimped Black Nylon
MB250436	#2-1/2	2"	36"	.010 Crimped Black Nylon
MB250472	#2-1/2	2"	72"	.010 Crimped Black Nylon
MB250496	#2-1/2	2"	96"	.010 Crimped Black Nylon
MB250636	#2-1/2	3"	36"	.012 Crimped Black Nylon
MB250672	#2-1/2	3"	72"	.012 Crimped Black Nylon
MB250696	#2-1/2	3"	96"	.012 Crimped Black Nylon

Other trim lengths, overall lengths, fill material and backing sizes are available upon request.

## Brush Fill Terminology



## Nylon Fill/Stainless Steel Backing



TANIS PART NO.	BACKING SIZE	OVERALL TRIM	OVERALL LENGTH	FILL MATERIAL
MB252036	#2-1/2	3/4"	36"	.006 Crimped Black Nylon
MB252072	#2-1/2	3/4"	72"	.006 Crimped Black Nylon
MB252096	#2-1/2	3/4"	96"	.006 Crimped Black Nylon
MB252236	#2-1/2	1"	36"	.008 Crimped Black Nylon
MB252272	#2-1/2	1"	72"	.008 Crimped Black Nylon
MB252296	#2-1/2	1"	96"	.008 Crimped Black Nylon
MB252436	#2-1/2	2"	36"	.010 Crimped Black Nylon
MB252472	#2-1/2	2"	72"	.010 Crimped Black Nylon
MB252496	#2-1/2	2"	96"	.010 Crimped Black Nylon
MB252636	#2-1/2	3"	36"	.012 Crimped Black Nylon
MB252672	#2-1/2	3"	72"	.012 Crimped Black Nylon
MB252696	#2-1/2	3"	96"	.012 Crimped Black Nylon

Other trim lengths, overall lengths, fill material and backing sizes are available upon request.

## STAPLE CONSTRUCTION

Stapling provides consistent product quality and reliability. The versatility and economy of stapling makes stapled set cylinder and circular brushes ideal for a wide variety of applications and industries. The staple, as shown in the illustrations at right, is a primary part of the brush. A staple is made either of steel, stainless steel or brass. The type of staple used is predicated by the environment and conditions the brush will be performing under.

**Straight**  
Most commonly used.  
Typical hole size of 3/32" or more.



**Crossover**  
For greater tuft retention.  
Typical hole size of 3/32" or more.

