

Removing light
corrosion and
mill scale from
coiled steel.



Wide Face Brushes

Cylindrical rotary brush assemblies have proven to be reliable and economical tools for a wide variety of industrial surface conditioning applications. In addition to gang-mounting a series of individual wheel brushes onto a shaft or reusable arbor, one-piece wide face brush units can be manufactured to cover broad surfaces or provide maximum brushing action in a minimum amount of space.

Cylindrical brushes can be manufactured using several different styles of construction, and the characteristics of each style of construction can significantly affect brush performance. Weiler will custom-design a wide face brush in the most appropriate type of construction for your specific application. Please call our Application Engineering Team at 888-299-APPS (2777) to discuss your requirements.

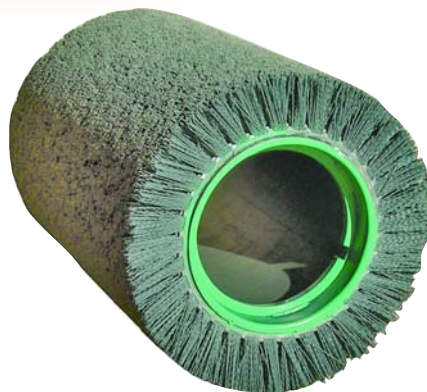
Applications

- ✓ Scrubbing debris from the surface of material during processing
- ✓ Removing corrosion, surface contamination, mill scale, or heat discoloration
- ✓ Roughening surfaces to promote adhesion or bonding
- ✓ Removing applied finishes and coatings
- ✓ Producing decorative surface finishes
- ✓ Deburring or finishing cylindrical parts
- ✓ Deburring the cut ends of tubing and extrusions

Disposable Brush Assemblies

Wide face assemblies for brushing flat surfaces can be manufactured as disposable units with a variety of available fill materials depending on the specific application. Available fills include; metallic filaments such as steel, stainless steel, or brass crimped wire; Nylox® nylon abrasive filaments; synthetic filaments such as nylon or heat-stabilized polypropylene; or natural fibers such as tampico.

Disposable mountings can be constructed of carbon steel or stainless steel components, and "flow-through" mountings which allow coolant to be circulated through the core and out the face of the brush are available for wet applications.



Refillable Brush Assemblies

Wide face assemblies for brushing flat surfaces can also be manufactured as a replaceable brush unit wound onto a permanent and reusable arbor. Depending on the specific application and production environment, the refilling of reusable arbors may be a more economical option than using disposable units. Reusable mountings can be designed by Weiler or supplied by the customer.

In addition to the secondary operations such as nibbling and grinding of the brush face and dynamic balancing of the completed unit, Weiler also offers maintenance services on mounting hardware like collars and bearings.




Centerless Brushes

Cleaning, finishing or deburring the outside diameter of cylindrical parts can be quickly and easily accomplished using wide face brushes on either dedicated equipment or existing through-feed centerless grinders.

Disposable brush assemblies are available from Weiler that will fit standard Cincinnati No. 2 and No. 3 as well as Landis No. 5 grinders. These brushes are available with either crimped wire or Nylox nylon abrasive fill, and they are compatible with conventional grinding coolants.

For applications requiring a wire filled brush for use on dedicated centerless finishing equipment, one of the specification sheets on page 28 can be used for requesting a quotation.





Deburring steel tubing on an automated machine.

Tube End Deburring Brushes

Cylindrical rotary brushes are an ideal media for production applications involving the batch deburring of the ends of tubing that has been cut-to-length. Automated brushing systems are readily available and considerably less expensive to purchase and operate than chamfering machines.

Brush deburring machines can be integrated with cut-off operations to eliminate work-in-process and increase throughput, and they are flexible enough to be quickly adjusted for various shapes, sizes, and lengths of tubing. Unlike chamfering operations, brush deburring does not leave secondary burrs, brushing equipment is more tolerant of slight variations in machine set-up and tube length, and quality brushes last much longer than cutting inserts on double-end finishers.

Tube end deburring brushes are most commonly manufactured as disposable assemblies which are then mounted onto keyed shafts. High-tensile steel, hard-drawn steel, and Type 302 stainless steel wire are the most common fill materials used in tube end deburring brushes. Weiler offers high quality brushes with wire sizes from .006 to .020 and four available levels of fill density so that the brushing performance can be tailored to the material, burr condition, and budget of the end-user.



Replacement Tube End Deburring Brushes -

The brushes in the chart below are a few of the popular Weiler replacement brushes that are available for the most common tube end deburring machines.

Dia.	Face Width	Arbor Hole	Wire Size	Brush Density	Item No. Steel
10"	18"	3-1/4"	.014	General Purpose	07340
				High Performance	07341
12"	18"	3-1/4"	.014	General Purpose	07286
				High Performance	07342
12"	18"	3-1/4"	.020	General Purpose	07343
				High Performance	07344

* The most common arbor hole sizes are 3-1/4" and 2" with 1/2" x 1/4" keyways. Other arbor holes are available upon request.

Contact your Weiler Sales Rep. or our Customer Service Department for price and availability.

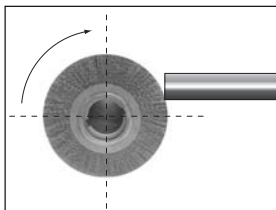
Custom Tube End Deburring Brushes

Please use the appropriate specification sheet on the next page when requesting a quotation on a custom tube end deburring brush.

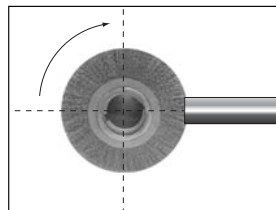


Brush- Tube Orientation

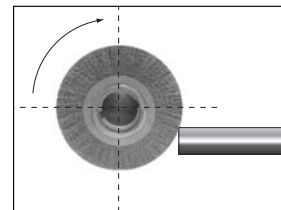
Brush-tube orientation determines which edges of the tube are deburred. The illustrations below show three orientations and the target edge.



Deburring Tube I.D.



Deburring Tube I.D. and O.D.

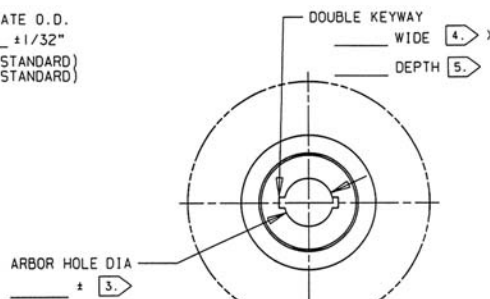
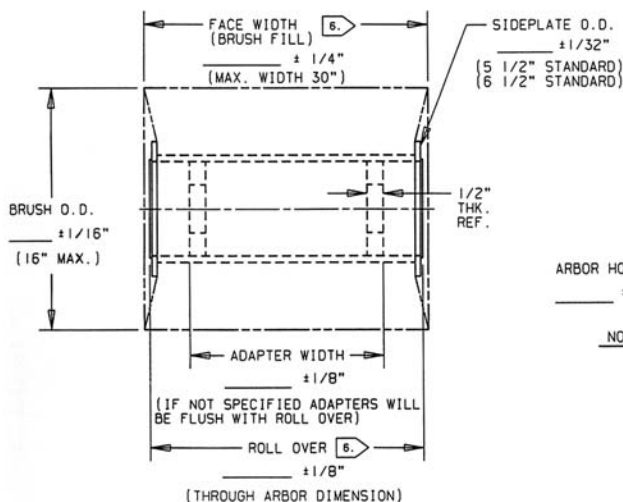


Deburring Tube O.D.



Call our Application Engineering Hotline at 888-299-APPS (2777). If the problem is too complex to be solved over the phone, we will determine if an evaluation should be conducted at our in-house lab or your facility. Either way, Weiler will provide the most cost-effective solution for your specific application.

Wide Face Brush Specification Sheet - For 8" to 16" brushes



NOTES:

1. MAXIMUM RPM: 10" & UP - 1750
UNDER 10" - 3450
2. STANDARD ARBOR HOLES:
3.253 $\pm .004$ WITH .505 $\pm .003$ X .255 $\pm .003$ KEYWAYS
FOR STANDARD 2" ARBOR WITH KEYWAYS SEE WC-279
3. NOM. ARBOR HOLE DIA $\pm .003$ CLEARANCE WITH
AN ADDITIONAL TOL. OF $\pm .004$
4. NOM. KEY WIDTH $\pm .002$ WITH AN ADDITIONAL TOL. OF $\pm .006$
5. NOM. KEY DEPTH $\pm .002$ WITH AN ADDITIONAL TOL. OF $\pm .006$
6. ROLL TO ROLL OR FACE WIDTH MUST BE DIMENSION HELD.
CANNOT DO BOTH.

FILL MATERIAL: _____
 FILL DENSITY: ☐ ECONOMY ☐ GENERAL PURPOSE ☐ HEAVY DUTY ☐ HIGH PERFORMANCE
 NIBBLED?: ☐ YES ☐ NO GROUND?: ☐ YES ☐ NO

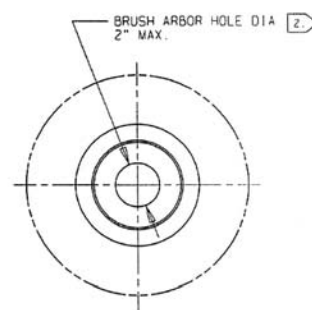
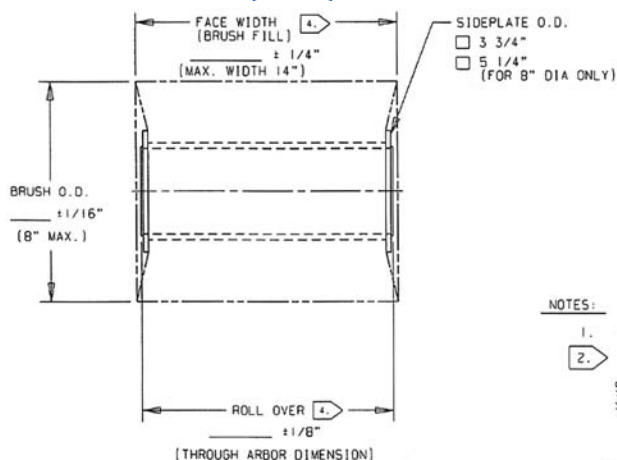
Name: _____
 Company Name: _____
 Address: _____
 Phone: () _____ Fax: () _____
 E-mail: _____
 End-user Name: _____
 City _____ State _____

For additional information call:
 Weiler's Application Engineering
 Hotline toll free at: 888-299-APPS (2777)

Or visit our website:
www.weilercorp.com
 E-mail: info@weilercorp.com

Mail or fax specification
 sheet to:
 Application Engineering
 Weiler Corporation
 One Weiler Drive
 Cresco, PA 18326-0149
 Fax: 800-635-3615

Wide Face Brush Specification Sheet (2" I.D.) - For 6" & 8" brushes with a 2" I.D.



NOTES:

1. MAXIMUM RPM: 3,450
2. STANDARD ARBOR HOLE ADAPTERS AVAILABLE:
 5/8" \rightarrow ☐ W/O DOUBLE KEYWAY ☐ W/ DOUBLE KEYWAY 1/4" X 1/8"
 3/4" \rightarrow ☐ W/O DOUBLE KEYWAY ☐ W/ DOUBLE KEYWAY 1/4" X 1/8"
 7/8" \rightarrow ☐ W/O DOUBLE KEYWAY ☐ W/ DOUBLE KEYWAY 5/16" X 5/32"
 1" \rightarrow ☐ W/O DOUBLE KEYWAY ☐ W/ DOUBLE KEYWAY 1/4" X 1/8"
3. ADAPTER WELDED IN BRUSH ☐ YES ☐ NO
 (ADAPTERS ARE FLUSH W/ ROLLOVER)
4. ROLL TO ROLL OR FACE WIDTH MUST BE PROVIDED

FILL MATERIAL: _____
 FILL DENSITY: ☐ ECONOMY ☐ GENERAL PURPOSE ☐ HEAVY DUTY ☐ HIGH PERFORMANCE
 NIBBLED?: ☐ YES ☐ NO GROUND?: ☐ YES ☐ NO

Name: _____
 Company Name: _____
 Address: _____
 Phone: () _____ Fax: () _____
 E-mail: _____
 End-user Name: _____
 City _____ State _____

For additional information call:
 Weiler's Application Engineering
 Hotline toll free at: 888-299-APPS (2777)

Or visit our website:
www.weilercorp.com
 E-mail: info@weilercorp.com

Mail or fax specification
 sheet to:
 Application Engineering
 Weiler Corporation
 One Weiler Drive
 Cresco, PA 18326-0149
 Fax: 800-635-3615