

XEBEC BRUSH™ WHEEL TYPE

FEATURES

- Ideal for deburring and polishing of side surfaces and inner diameters
- Self-sharpening action on the cutting edge of the Ceramic Fiber tips of the Brush.
- Continuous cutting edge provides consistent grinding performance.

SPECIFICATIONS

Brush Color: Red

Sizes Available: 50 and 75 mm Diameter (70 or 150 mm Shank)

Brush main unit





Brush requires reusable Shank to operate. Shank includes M4 set screw.

FOR USE WITH THE FOLLOWING TOOLS:

Follow manufacturers instructions for proper mounting



Center



Lathe



Machine



Robot



Lathe with

Milling



Always operate within the recommended range of maximum speed of rotation, depth of cut and feed rate.

PRECAUTIONS FOR USE

Do not exceed the maximum rotation speed for use.

Operating above the maximum rotation speed may result in tool breakage.

Ensure any dust or debris generated during processing is collected, and work area is kept clean.

Even if there is no abnormal condition observed in the test run, stop use immediately if an abnormality is observed.

Do not use the tool at an unreasonable angle or under excessive pressure.

Do not use the tool in any place with risk of fire or explosion.

Do not grind with, alter or fabricate the shaft.

CONDUCT A TEST

Conduct a test run for 1 minute or more before starting the operation and 3 minutes or more after changing a tool. Check for any abnormality including excessive vibration or looseness in the mounting place of the tool.

OPERATOR SAFETY MEASURES

Use Protective Gear Always wear protective goggles, gloves and masks when operating the tool or entering the work area. Wear long sleeves, tight cuffs, and clothing to minimize skin exposure.

Take Precaution Be cautious in surrounding area. Use of machines at high speed can cause flying debris within the work area. Dust or debris generated by operating process could be hazordous.



WARNING!

Use caution and follow all safety measures at all times. Failure to do so could result in injury. A tool or a part of a tool may crack, drop off, distort or break. Broken pieces of a tool or grinding dust may stick into skin or eyes and cause injury.

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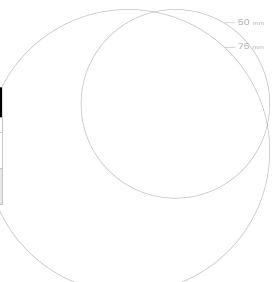


Selection

Wheel Brush Reusable Shank Sold Separately, See Below

Size	EDP	Part No.		D2 Diameter	_)3 Diameter		L3 Thickness		L4 1 Height	Max RPM
			MM	INCHES	ММ	INCHES	MM	INCHES	MM	INCHES	
50 mm	60007	W-A11-50	23	0.906	50	1.969	9.6	0.378	8	0.315	3,000
75 mm	60008	W-A11-75	23	0.906	75	2.953	9.6	0.378	8	0.315	3,000

Insert shank into brush before use.



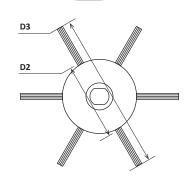
Shank Wheel Brush Required

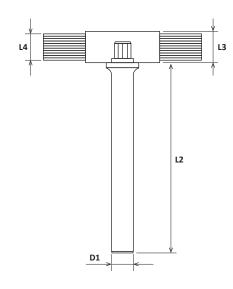
Shank	EDP	Part No.	D1 Shank Diameter		L2 Shank Length	
			MM	INCHES	MM	INCHES
70 mm Shank	60009	WSM	8	0.315	70	2.756
150 mm Shank	60010	WSL	12	0.472	150	5.906

^{*}Not suitable for use on hand held devices

Set Screw Included with Shank

SIZE	STYLE	DIAMETER	PITCH	
M4	Flat Head with Hex	4mm (.157 in)	0.7 mm	





ADDITIONAL LEARNING RESOURCES AVAILABLE ON OUR WEBSITE



3D Files (STEP, DXF), Dimensional Drawings and Safety Data Sheets (SDS)

deburringtechnologies.com/technical



Product Demonstration Videos

deburringtechnologies.com/video

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How to Use

Initial Processing Conditions

EDP	Minimum RPM	Depth of cut (inches)	Feed rate (in/min)		
60007	1,600	0.008	190		
60008	1,000	0.008	120		

^{*}As bristles wear, bristle length shortens and stiffness increases. If bristle breakage occurs, decrease the depth of cut.

If burrs remain

- 1. Increase the number of passes
- 2. Decrease the feed rate in 10 to 20% increments
- 3. Increase Depth of Cut (up to 0.02 inches)

Use of Coolant/Oil will optimize results

- > It will Extend Tool Life
- > Improves Surface Finish

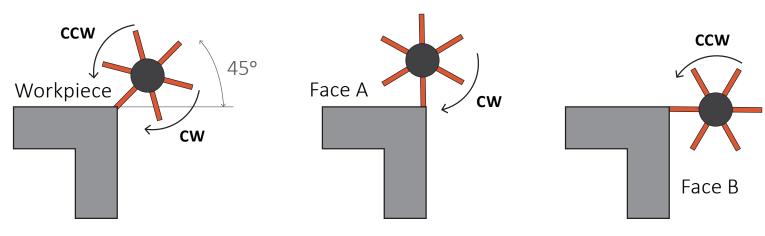
HOW TO ENGAGE

From the top view, the best approach is to place a center of a brush at the center angle to the edge. (Figure 1) Burrs on Face A and B can be both removed.

Edge quality becomes stable if a brush is rotated in both clockwise and counter-clockwise directions.

Brush position on the Figure 2 is effective for burrs on Face A in the same way as figure 3 for burrs on Face B.

Rotational Direction



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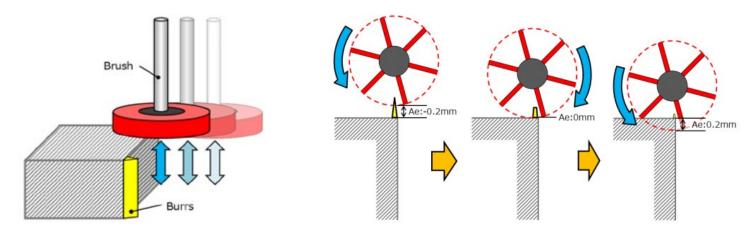


IF BURRS ARE TOO LARGE

Use multiple passes as described below.

Gradually move the brush closer to the bottom of burrs. Increase the depth of cut step by step.

If trying to remove burrs in just 1 pass, it may cause excessive tool wear, tool breakage or burr may not be removed. Calculate the maximum height of burrs before using the tool.



HOW TO ADJUST WEAR AMOUNT

To use the XEBEC Brush Wheel Type, the depth of cut must be kept small. It is necessary to offset the wear amount in a radial direction. Use a macro program or manually offset the wear amount. Refer to the example below.

