

XEBEC STONE™ FLEXIBLE SHAFT

FEATURES

- For deburring crossholes and detailed finishing of parts
- Self-sharpening Ceramic Fiber Stone, cuts on all surfaces of the Stone.
- Flexible Shaft allows soft contact with the work piece.

PROPER SELECTION

- Select a head size about 25% larger than the crosshole, but smaller than the bore.
- Ball and Cylinder style heads available in multiple sizes and grits.

SPECIFICATIONS

Stone Color: Blue, Orange, Gray

Grit: #800, #400, #220

Styles Available: Ball, Cylinder Material Hardness: up to 57HRC

Recommended Burr Size: Base thickness up to 0.2 mm

MAXIMUM Cutting Load: 3.7 ft/lbs (5Nm)

FOR USE WITH THE FOLLOWING TOOLS:

Follow manufacturers instructions for proper mounting









Lathe







Special



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.



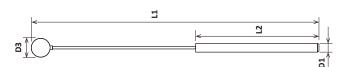
WARNING!

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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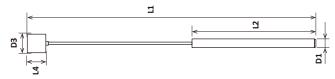


Stone Color	Blue	Orange	Gray
Grit	#800	#400	#220



Ball Type

	I I Size D3)	L1 Overall Length		D1 Shank Diameter		L2 Shank Length		Aggressiveness Less		→ More	Max
MM	INCHES	ММ	INCHES	ММ	INCHES	ММ	INCHES	Blue - #800	Orange - #400	Gray - #220	RPM
3mm	0.118	71.5	2.815			30	10002 10009 10016 CH-PB-3B CH-PO-3B CH-PM-1 10002 10009 10016 CH-PB-4B CH-PO-4B CH-PM-1 10003 10010 10017 CH-PB-5B CH-PO-5B CH-PM-1 10004 10011 10018 CH-PB-6B CH-PO-6B CH-PM-1 10080 CH-PM-3 10060 CH-PM-4 10061 CH-PM-5 10061			10015 CH-PM-3B	15,000
4mm	0.157	73	2.874							10016 CH-PM-4B	13,000
5mm	0.197	72	2.835							10017 CH-PM-5B	12,000
6mm	0.236	75	2.953		0.118					10018 CH-PM-6B	10,000
10 mm	0.393	72.5	2.854	3				-	-	10027 CH-PM-10B	7,000
3mm	0.118	152.5	6.004					10080 CH-PM-3B-L	1,000		
4mm	0.157	151.5	5.965					-	-	10062 CH-PM-4B-L	3,000
5mm	0.197	153	6.024					-	-	10061 CH-PM-5B-L	3,000
6mm	0.236	152	5.984					-	-	10060 CH-PM-6B-L	3,000



Cylinder Type

Cylinder Size (D3 x L4)		L1 Overall Length		D1 Shank Diameter		L2 Shank Length		Aggressiveness Less More			Max
ММ	INCHES	ММ	INCHES	MM	INCHES	ММ	INCHES	Blue - #800	Orange - #400	Gray - #220	RPM
3 x 3	0.118 x 0.118	71.5	2.815	3	0.118	30	1.181	10005 CH-PB-3R	10012 CH-PO-3R	10019 CH-PM-3R	15,000
4 x 4	0.157 x 0.157	72	2.835					10006 CH-PB-4R	10013 CH-PO-4R	10020 CH-PM-4R	13,000
5 x 5	0.197 x 0.197	72.5	2.854					10007 CH-PB-5R	10014 CH-PO-5R	10021 CH-PM-5R	12,000
5 x 10	0.197 x 0.393	75	2.953					-	-	10022 CH-PM-5R-C01	12,000

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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Starting Operating Parameters

Material	Description	3mm Stone	4mm Stone	5mm Stone	6mm Stone	
iviateriai	Description	RPM	RPM	RPM	RPM	
Aluminum Castings	1000-3000	● 12,000	● 9,100	● 7,000	● 6,100	
Aluminum Castings	5052-6061	● 13,000	● 9,900	● 7,600	● 6,600	
Copper Brass	C93200- B- 148-52	● 12,000	● 9,100	● 7,000	● 6,100	
Carbon Steel Alloys	1010- 1060	1 3,500	1 0,200	7 ,800	6,800	
Low Alloy Steel	S1- O2- 4140- 5150	1 3,700	• 10,300	● 8,000	7,000	
High Alloy Steel	H11- T15- M42	1 3,900	• 10,400	● 8,200	• 7,200	
Stainless Steel/ Castings	403-405-17-4 PH	1 3,500	• 10,200	• 8,000	• 7,000	
300 Series Stainless	304-316	12,200	● 9,300	● 7,200	◎ 6,200	
Cast Iron - Gray & Nodular	All	1 3,200	• 9,900	7 ,600	6 ,600	
White/Hardened Cast Iron	All	1 4,500	• 11,000	● 8,700	• 7,600	
Titanium	TiAL6V4- 6V6AL2Sn	1 4,000	1 0,500	● 8,200	7,300	
High Temp Alloys	Inconel- Hastelloy	• 14,500	• 11,000	● 8,700	• 7,600	
	Maximum RPM	15,000	13,000	12,000	10,000	