

XEBEC Stone Flexible Shaft Disc Type



Small-diameter, long flexible shaft

With the small-diameter long shaft of the diameter $\Phi 2.3$ and the length 78 mm, it is possible to reach and remove burrs deep inside the main hole of a workpiece.

Long tool life

Improved durability thanks to the Stone made of ceramic fibers instead of abrasive grains.

The Stone lasts for 3 – 5 times longer than rubber grindstone and vitrified grindstone with equivalent grinding power.

Stable quality

Flexible shaft allows soft contact with workpieces and suppresses subtle vibration. Reduced risk of scratching the workpiece thanks to the Stone not bouncing on the surface.

Manual
deburring video
(YouTube)



Automated
deburring video
(YouTube)



Grindstone

Equivalent grit (Color)	Product code	Head diameter x thickness (mm)	Maximum rotational speed (min^{-1})	fig
#220 (Gray)	CH-PM-14D	$\Phi 14 \times 2$	5,000	1

Shaft

Product code	Shaft diameter (mm)	Overall length (mm)	Mounting screw	fig
CH-D-SH	$\phi 2.3$	78	M2 \times 6	2

A wrench for the mounting screw is included in the product package.

Trial set

The set includes a disc type Stone and a shaft.

Product code
CHPM14D-SET

$\Phi 2.3$ collet sleeve for conversion

Attach on a $\Phi 3$ size rotary tool to use.

Product code
RMP3024X

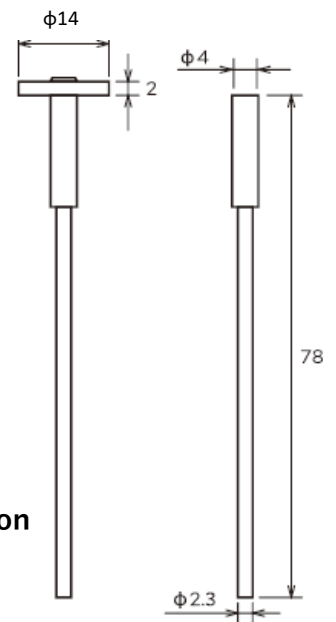


Fig 1

Fig 2

Precautions for use

Use the disc type by normal rotation (clockwise).

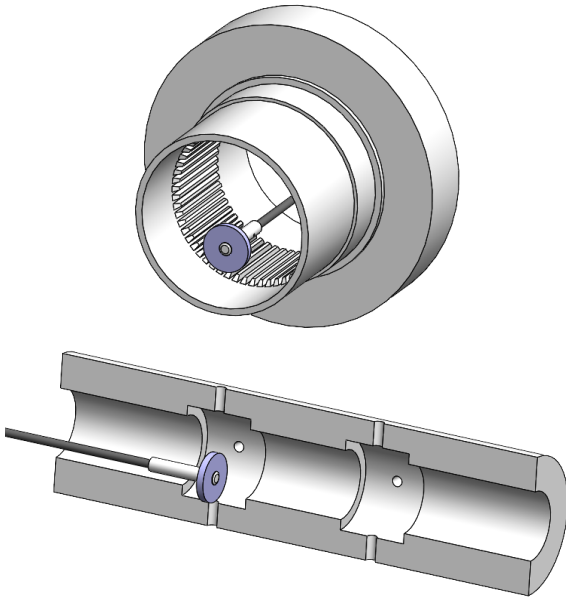
If it is used by reverse rotation, the screw will be loosened, and the Stone can be fallen off.

The tool will be damaged when:

- processed beyond the maximum rotation speed
- used with a pneumatic tool

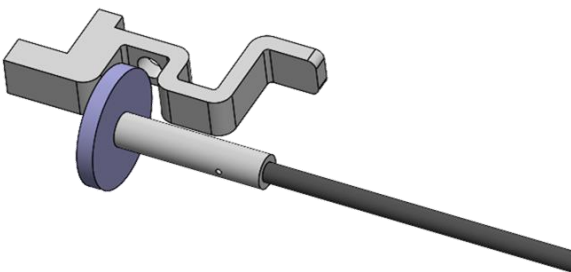
Applications

Deburring of splined edges and internal grooves



Part category	Aircraft component
Material	Iron, brass, aluminium alloy
Before	Tool: Disc type resinoid grindstone
	<ul style="list-style-type: none"> - It tended to grind the workpiece too much. - The grindstone cracked when it is chipped.
After	<ul style="list-style-type: none"> - Since the Disc does not grind too much nor crack, it can be used for a long time continuously. - With the long shaft, it is possible to reach the deep part of the workpiece.

Deburring of holes on recessed surfaces



Part category	Electronic component
Material	Kovar
Before	Tool: Disc type rubber grindstone
	<ul style="list-style-type: none"> - The grindstone chipped due to the hardness of burrs. Truing was needed frequently. - Tool life is about 5 workpieces.
After	<ul style="list-style-type: none"> - Since the Disc rarely cracks, it can be used for a long time without truing. - Tool life is 10 workpieces or more. The tool needs to be replaced less frequently. - With the long shaft, it can reach the spots where it was not possible with other tools. It is applicable to wider range of workpiece types.