

## 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.

Manual  
deburring video  
(YouTube)



Automated  
deburring video  
(YouTube)



### 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.

#### Grindstone

Equivalent grit (Color)	Product code	Head diameter x thickness (mm)	Maximum rotational speed ( $\text{min}^{-1}$ )	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

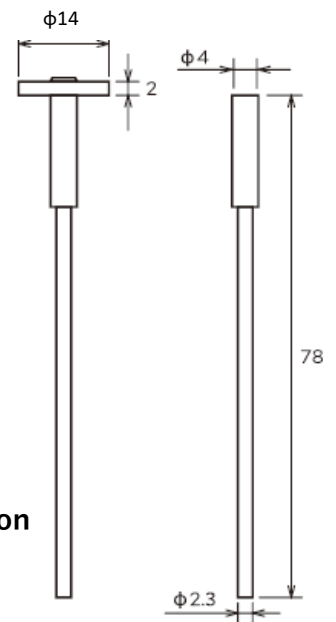


Fig 1

Fig 2

#### Precautions for use

Use the disc type by normal rotation (clockwise).

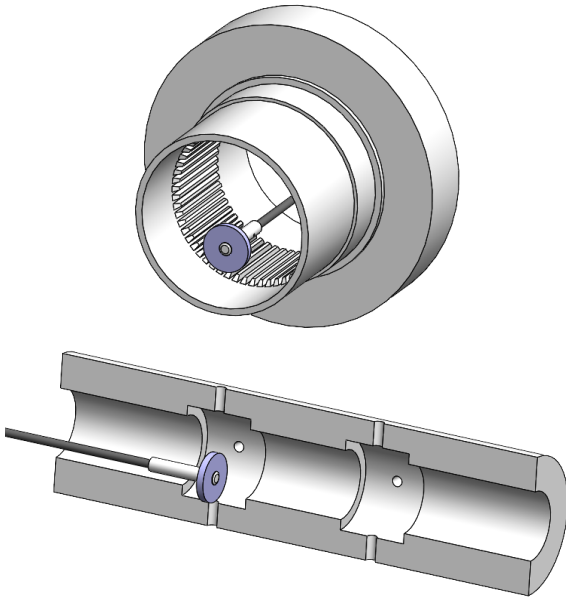
If it is used by reverse rotation, the screw will be loosened, and the Stone can be fallen off.

#### The tool will be damaged when:

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

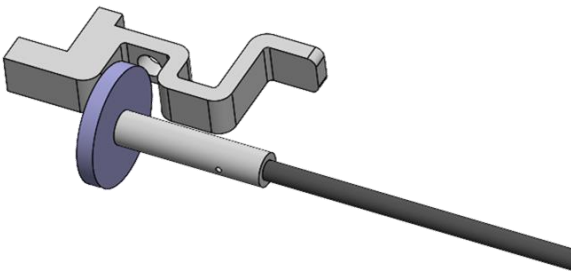
## Applications

### 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"> <li>- It tended to grind the workpiece too much.</li> <li>- The grindstone cracked when it is chipped.</li> </ul>
After	<ul style="list-style-type: none"> <li>- Since the Disc does not grind too much nor crack, it can be used for a long time continuously.</li> <li>- With the long shaft, it is possible to reach the deep part of the workpiece.</li> </ul>

### Deburring of holes on recessed surfaces



Part category	Electronic component
Material	Kovar
Before	Tool: Disc type rubber grindstone
	<ul style="list-style-type: none"> <li>- The grindstone chipped due to the hardness of burrs. Truing was needed frequently.</li> <li>- Tool life is about 5 workpieces.</li> </ul>
After	<ul style="list-style-type: none"> <li>- Since the Disc rarely cracks, it can be used for a long time without truing.</li> <li>- Tool life is 10 workpieces or more. The tool needs to be replaced less frequently.</li> <li>- 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.</li> </ul>