







Superfinish CBN honing stone For bearing



Rotary dresser For water pump, ball bearing



Metal cup dresser For bearing ID grinding



EHWA industrial diamond tools are indispensable in modern industries and are often applied to bearing and aerospace industries. In particular, EHWA has been providing the worldwide leading aerospace engine manufacturing and bearing companies as its main customers with the very best products.

Diamond tools for **Bearing**



Double disc surface grinding wheel For bearing



raper roller race grinding wheel For bearing



Rotary dresser For LM guide



Rotary dresser For ball screw

Vitrified CBN wheel



Advantages

- \cdot Higher removal rates and shorter cycle times
- · Reduced grinding force
- · Reduced mechanical & thermal damage to bearing
- · Stable and precise grinding performance for superior quality, surface finish, cylindricity and less size deviation

| Grinding Condition |

 \cdot Wheel speed: 30 \sim 80 m/s

· Removal amount : 0.1 ~ 0.35mm D

 \cdot Dressing amount : $5 \sim 30 \mu m$

 $\cdot \textbf{Dressing ratio}:~0.3{\sim}0.6$

· Dresser: Diamond rotary dresser

· Coolant : Oil, emulsion

| Mounting type |

Ceramic core	Steel core	Steel quill	Steel head type
0	(-10	

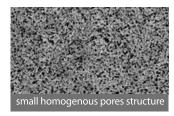
Super finishing stone

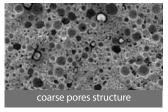


Advantages

- $\cdot \textbf{Longer tool life and improved productivity}$
- 5~10 times longer tool life than conventional stone
- Shorter cycle time for honing
- higher stock removal rate
- · Excellent performance
- improved surface finish
- · ECO-friendly
 - No sulfur
- More consistent performance with less scrap

Micro structure of CBN stone





| Taper roller bearing raceway super finishing |

Condition • Vw : 100~200rpm • Removal : 5μm • Surface roughness : Ra 0.06 μm • Stone specification : B2400K120VHWPN Conventional stone Conventional CBN stone



Rotary dresser



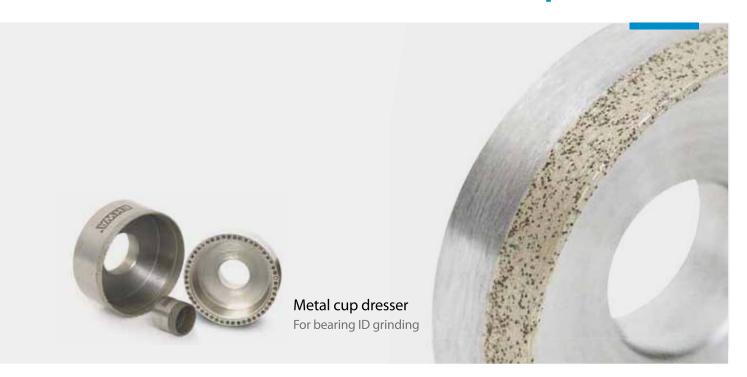
Diamond rotary dresser for ball / roller / hub bearings & water pump bearing

| Advantages |

- $\cdot \ \, \text{Highly precise and complex grinding}$
- \cdot Less dressing load and excellent dressing performance
- \cdot Longer tool life and cycle time redution
- \cdot Available for dressing of vitrified CBN wheel



Metal cup dresser



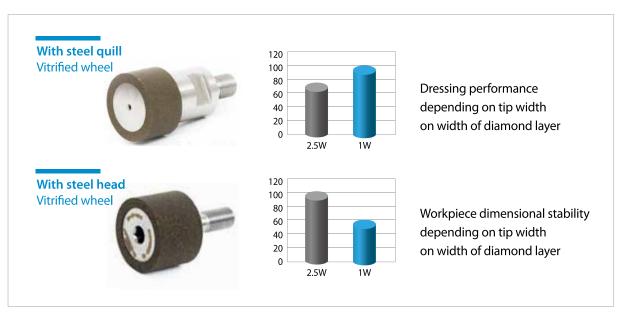
Advantages

- · Longer life
 - 20,000~30,000 times (depending on the wheel size)
- · Precise dressing
- Less grinding deviation after dressing
- · Longer dressing interval and outstanding performance





Reference



Face grinding wheel



Double disc surface grinding wheel For bearings



| Ring & roller face grinding wheel |

EHWA diamond manufactures wheels for bearing face grinding It improves the productivity by reducing cycle time It is suitable for cost saving and quality improvement with longer life and better surface finish

Advantages

- · Longer life
- · Short cycle time
- · Excellent surface finish

Face grinding

for IR/OR ring of ball bearing



For application

- · Roller of needle bearing
- · Roller of roller bearing
- · IR/OR ring of bearing

Face grinding

for roller of roller bearing



Taper roller face grinding wheel



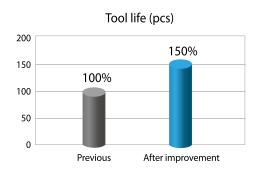
Taper roller face grinding wheel For bearings



Advantages

- $\cdot \, \text{Longer tool life} \, \& \, \text{cost saving} \,$
- · Higher stock removal rate and superior performance
- · Excellent surface finish

Performance

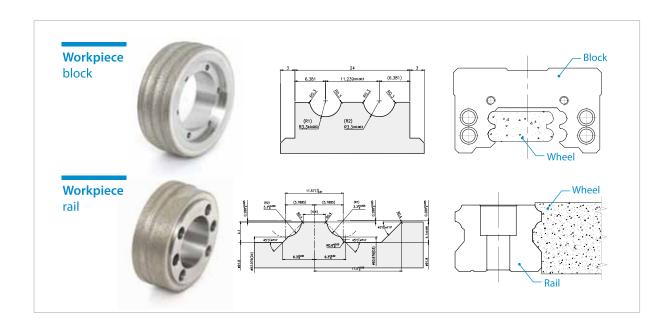




Rotary dresser · for LM guide



- $\cdot \, LM \, guide \, is \, a \, linear \, motion \, product \, that \, is \, used \, to \, manufacture \, automotive \, equipment.$
- \cdot LM guide consists of a block and rail, and balls between them rotating.
- · Rotary dresser is used for dressing the CBN wheel that polishes the seat of the ball between a block and rail.



Rotary dresser · for ball screw



Ball screw

- \cdot An assembly that converts rotational motion into linear motion.
- · Consists of ball screw and nut.

Advantages

- $\cdot \mbox{ Highly precise dressing with longer life} \\$
- $\cdot \, High \,\, diamond \,\, concentration \,\,$

