Gear grinding dresser
For gear

Metal honing stone
For gear

Vitrified CBN wheel
For gear and shaft angular grinding

Vitrified CBN wheel
For gear internal grinding
Diamond tools for
Automotive
gear • steering • brake

Vitrified CBN wheel
For CV joint

Rotary dresser
For CV joint

CBN segment
For brake disc

BSL & electroplated wheel
For brake pad
**Automotive | gear**

**Gear grinding dresser**

![Gear grinding dresser image](image)

**Workpiece**

*For dressing of worm wheel for gear grinding*

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**Advantages**

- Highly precise gear dresser due to strict raw material management
- Achieve the optimal gear profile with EHWA’s precisely polished gear dresser

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**Type of dresser**

- Single taper disc type
- Single cone type
- Single and root type
- Double type
Metal honing stone
For pinion gear, speed gear, sleeve gear, DCT gear, etc.

**Pinion, speed, DCT gear**

- Longer tool life & cost saving
- Less grinding load
- Excellent roundness

<table>
<thead>
<tr>
<th>Stone mesh</th>
<th>Bond modification</th>
</tr>
</thead>
<tbody>
<tr>
<td>D181~D15</td>
<td>MB, MH, MS, MJ series</td>
</tr>
</tbody>
</table>

**Synchro sleeve gear**

- Effective inner diameter honing of a sleeve gear
- Longer tool life and better precision than a competitor’s product

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<td>D76~D20</td>
<td>MB, MS series</td>
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</table>

**Advantages**

**Performance**

<table>
<thead>
<tr>
<th>Tool life (pcs)</th>
<th>Roundness (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8000</td>
<td>0.24</td>
</tr>
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<tr>
<td>8000</td>
<td>0.15</td>
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<table>
<thead>
<tr>
<th>Competitor</th>
<th>EHWA</th>
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</thead>
<tbody>
<tr>
<td>Sleeve gear honing stone</td>
<td>Workpiece</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Automotive | gear
Angular grinding

Vitrified CBN wheel
For angular grinding

| Advantages |
- Excellent grinding performance for gear component
- Longer dressing interval for cost saving and high production capacity
- High removal rate due to the free cutting capability
- Reduced cycle time
- Less mechanical & thermal damage to grinding surface

| Grinding condition |
- **Wheel speed**: 25 ~ 80 m/s
- **Removal amount**: 0.1 ~ 0.35mm D
- **Dressing amount**: 5μm ~ 30μm
- **Dresser**: diamond rotary dresser
- **Spindle axle degree**: 15 ~ 30 ~ 45
- **Shank material**: steel, aluminum alloy
Internal grinding

CBN wheel
For internal grinding

Advantages
- Excellent surface quality
- Longer wheel life and cost saving
- Faster setup of production line
- High stock removal rate

Wheel life

<table>
<thead>
<tr>
<th>Conventional wheel</th>
<th>EHWA CBN</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8-10X's</td>
</tr>
</tbody>
</table>

Innovator in Technology
**Advantages**

- High stock removal for improved production capacity
- Outstanding surface quality with low heat and tight tolerance
- Longer dressing intervals & less wheel wear to reduce cost and improve consistency
- EHWA has specialized solution for CV joint part grinding

**Cage window grinding**

*Standard specification*
B126M180VBTM

**Outer race grinding**

*Standard specification*
B181M160VBTM
CV Joint grinding rotary dresser

| CV joint |
Components that transmit the power of the engine delivered to the transmission to the wheels at constant speed.

| Advantages |
- Customized design
- Highly precise tolerance
- Outstanding grinding performance due to high diamond exposure
Automotive | brake disc

CBN segments

| Advantages |
- Longer tool life & cost saving
- Shorter cycle time due to high grinding speed

| Bond modification |

**Workpiece**
4WD (FC)

- Stone mesh: D181~D54
- Bond modification: MH series

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**Workpiece**
2WD (SUS)

- Stone mesh: D181~D54
- Bond modification: MP series
BSL & Electroplated wheels

**BSL wheel**
- Excellent free cutting performance & easy chip flow due to high diamond exposure
- Longer wheel life than E/P wheels reduce cost

**Electroplated wheel**
- Synchronized for chamfer, slot, and face grinding
- Available in various, complex designs
- Proper for various materials such as composites, ceramic and rubber
- Outstanding grinding performance
- Can be refurbished multiple times