Electroformed Bond Hub Blades

**NBC-ZH SERIES**

**High performance hub blades that take on the challenges of cutting**

The NBC-ZH Series provides high productivity and excellent process results thanks to its superb cutting ability and long life.

A combination of an ultrathin diamond blade and an aluminum hub provides enhanced operation efficiency and stable cutting results. In combination with DISCO's vast application knowledge, these blades provide excellent cutting results when dicing silicon wafers and compound semiconductor wafers such as GaAs.

- Realizes advanced dicing processes bevel and step cutting
- Wide range of grit sizes and bond types to support various application requirements
- Shorter blade change time for increased productivity

### Process example

Bevel Cut  
Step Cut

### Applications

- Silicon wafers, compound semiconductor wafers (GaAs, etc.),
- Oxide wafers (LiTaO3), and other applications
### Specifications

**Standard Type**

<table>
<thead>
<tr>
<th>Bond</th>
<th>Hub type</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>SE</td>
<td>27H</td>
</tr>
<tr>
<td>J</td>
<td>SE</td>
<td>27H</td>
</tr>
<tr>
<td>F</td>
<td>SE</td>
<td>27H</td>
</tr>
</tbody>
</table>

**Concentration**

<table>
<thead>
<tr>
<th>No.</th>
<th>Grit size</th>
<th>Grit size code</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Low</td>
<td>G</td>
</tr>
<tr>
<td>2</td>
<td>Standard</td>
<td>D</td>
</tr>
</tbody>
</table>

**ELECTROFORMED BOND HUB BLADES**

NBC-ZH 2 05 0 - SE 27H E D D

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**Actual blade thickness**

NBC-ZH 2 05 0 - D - S1 - T1 - SE

**Exposure**

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Slit 2</th>
<th>Blade shape 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 0.38 - 0.51</td>
<td>S1</td>
<td>T1</td>
</tr>
<tr>
<td>B 0.51 - 0.64</td>
<td>S2</td>
<td>G</td>
</tr>
<tr>
<td>C 0.64 - 0.76</td>
<td>S3</td>
<td>H</td>
</tr>
<tr>
<td>D 0.76 - 0.89</td>
<td>SS Optional</td>
<td>I</td>
</tr>
<tr>
<td>E 0.89 - 1.02</td>
<td>J</td>
<td>T2</td>
</tr>
<tr>
<td>F 1.02 - 1.15</td>
<td>K</td>
<td>T3</td>
</tr>
<tr>
<td>G 1.15 - 1.28</td>
<td>T4</td>
<td>T3A</td>
</tr>
<tr>
<td>H 1.28 - 1.41</td>
<td>B</td>
<td>T3B</td>
</tr>
<tr>
<td>I 1.41 - 1.54</td>
<td>C</td>
<td>T4A</td>
</tr>
<tr>
<td>J 1.54 - 1.67</td>
<td>D</td>
<td>T4B</td>
</tr>
<tr>
<td>K 1.67 - 1.80</td>
<td>E</td>
<td>F</td>
</tr>
</tbody>
</table>

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**Warning:** To use these DISCO blades and wheels (hereafter precision tooling) safely...

- **Use a safety cover (nozzle case, cover), equipped as a standard accessory, to avoid injury.**
- **Do not exceed the specified rpm limit indicated on the precision tooling.**
- **Follow the instruction manual of the equipment to mount the precision tooling properly.**
- **Do not drop or hit the precision tooling.** This may cause damage or injury.
- **Always check the precision tooling for chipping or any other damage before starting to use it. Do not use the tooling if there is any damage.**
- **Read the operation manual of the cutting/grinding equipment before use.**
- **Do not use the precision tooling with modified or customized equipment.**
- **Do not use precision tooling that has a different size from the one recommended for your equipment.**
- **Do not use the precision tooling for any other purpose than grinding, cutting, or polishing.**
- **Always use water or coolant to prevent precision tooling damage.**

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**When ordering:**

- Please contact a DISCO representative with your product needs such as type, wheel size, and quantity.
- When you place the first order with us, please explain application information such as materials to grind, sizes, machine, type, and other specifications.
- We are ready to help you to determine which is our most appropriate product type for your application.

Due to improvements in our products, it is possible that product specifications may be changed without prior notice. Please confirm the product specifications with a DISCO representative.

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