Small footprint
The optimal design of the DAD3650 combines high functionality and ultra compactness for a dual-spindle automatic dicing saw giving it a footprint 2/3 the size of the widely used single-spindle DAD3350 dicer for ø8 inch wafers.

High throughput
By dicing with 2 spindles simultaneously in dual cut mode, high throughput of as much as twice* that of a single-spindle dicer can be achieved.

*Actual throughput varies depending on the workpiece size and processing parameters.

High processability
While possessing a small footprint, the DAD3650 can be modified to support the same maximum workpiece size (max ø8 inch, 250 mm sq.) as the DAD3350 with a user-specified specification. Also, by mounting a different blade on each spindle and using step cut to dice in 2 stages, it is possible to process workpieces requiring very high quality.

Enhanced ease of use
- Realizes intuitive operation thanks to the use of the same GUI* as the DAD3350 which is the industry-standard automatic dicing saw for ø8 inch wafers.
- Using a 19 inch LCD touch panel, equipment operation can be performed while constantly checking for equipment machine and blade conditions.
- Consolidates basic equipment access at the front for operation and workpiece or blade replacement.
- Reduces operator stress by the inclusion of the automatic alignment function as standard.

* GUI: Graphical User Interface

Environmentally-conscious design
The DAD3650 is a green procurement compliant product* which means it does not contain the 15 hazardous chemical substances listed in the "List of DISCO Restricted Substances" and the six substances specified in the EU RoHS Directive.

* A green procurement compliant product refers to products that satisfy DISCO’s green procurement standards and conforms to EU RoHS Directives.

Water conservation is made possible through the adoption of a newly developed, low heat generation spindle, which reduces cooling water consumption by half compared to existing equipment.
## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Unit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workpiece size</td>
<td>-</td>
<td>ø8 inch&lt;br&gt;Square die 250 mm (user-specified specification)&lt;br&gt;φ300 mm (user-specified specification)</td>
</tr>
<tr>
<td>X-axis</td>
<td></td>
<td>Cutting range mm 260&lt;br&gt;Cutting speed mm/sec 0.1 - 1,000</td>
</tr>
<tr>
<td>Y-axis</td>
<td></td>
<td>Cutting range mm 260&lt;br&gt;Index step mm 0.0001&lt;br&gt;Index positioning accuracy mm 0.002/260 (Single error) 0.002/5</td>
</tr>
<tr>
<td>Z-axis</td>
<td></td>
<td>Max. stroke mm 32.2&lt;br&gt;Moving resolution mm 0.00005&lt;br&gt;Repeatability accuracy mm 0.001</td>
</tr>
<tr>
<td>θ-axis</td>
<td>deg</td>
<td>Max. rotating angle 320</td>
</tr>
<tr>
<td>Spindle</td>
<td>kW</td>
<td>Output 1.8&lt;br&gt;Rated torque N·m 0.29&lt;br&gt;Revolution speed range min⁻¹ 6,000 - 60,000</td>
</tr>
<tr>
<td>Machine dimensions(W×D×H)</td>
<td>mm</td>
<td>790 × 790 × 1,890</td>
</tr>
<tr>
<td>Machine weight</td>
<td>kg</td>
<td>Approx.1,100</td>
</tr>
</tbody>
</table>

### Environmental Conditions

- Use clean, oil-free air at a dew point of -15 °C or less. (Use a residual oil: 0.1 mg/m³ or less. Filtration rating: 0.01 µm/99.5 % or more).
- Keep room temperature fluctuations within ±1°C of the set value. (Set value should be between 20 - 25 °C).
- Keep cutting water and cleaning water 2 °C above room temperature (fluctuations within ±1 °C).
- The machines should be used in an environment, free from external vibration. Do not install machine near a ventilation opening, heat generation equipment or oil mist generating parts.
- This machine uses water. In case of water leakage, please install the machine on the floor with sufficient waterproofing and drainage treatments.

* As the above specification may change due to technical modifications. Please confirm when placing your order.
* For further information, please contact your local sales representative.