Singulation Machine
Twin Stage Super-speed Package Singulation System

**PS300**

Now, with two independent stages, cutting and positioning can proceed in parallel. The result - a maximum dicing speed up to twice that previously possible! New connected handlers, shorten coordination time - bringing increased operation efficiency and substantial savings in processing time.

### Twin Cutting-stage Mechanisms and Independent Microscope Drive Mechanism

The new parallel spindle drive shaft with an independent microscope drive shaft - make simultaneous cutting and alignment operations possible. This combines with PS300's twin cutting stage mechanisms to bring unparalleled performance!

<table>
<thead>
<tr>
<th>Previous models</th>
<th>PS300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single chuck system</td>
<td>Twin chuck system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage</th>
<th>Unload</th>
<th>Load</th>
<th>Alignment</th>
<th>Cutting</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>02</td>
<td></td>
<td></td>
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</tbody>
</table>

### Large Cutting Area

PS300's large cutting area ensures smooth scrap processing and easy maintenance.
Wide,Bright Image Processing

The optical system comes with a wider visual field and higher, brighter resolution - greatly assisting image processing during operations such as alignment. The results - reduced alignment error and shorter alignment time (Patent pending).

17-inch Touch Panel Monitor

The large touch screen provides enhanced visibility and easier operation.

Main Options

- Macro visual field optical system
- SECS function
- Transformer supporting multiple power supplies
- Resistivity and flow volume monitoring
- High-capacity vacuum pump

USB Interface

The USB interface makes system upgrading fast and easy and streamlines data storage from the device.

PS300 Specifications

<table>
<thead>
<tr>
<th>Items</th>
<th>PS300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable work size (Max)</td>
<td>300×100 mm 215 mm</td>
</tr>
<tr>
<td>Saw-jig size (Max)</td>
<td>Φ 332 mm</td>
</tr>
<tr>
<td>Spindle type</td>
<td>Air bearing type</td>
</tr>
<tr>
<td>Spindle output power</td>
<td>1.8kW</td>
</tr>
<tr>
<td>Rotation speed (Max)</td>
<td>60 min⁻¹</td>
</tr>
<tr>
<td>Blade size</td>
<td>2 inch (3 inch option)</td>
</tr>
<tr>
<td>X-axis cutting speed</td>
<td>0.1 - 600mm/sec (X1,X2,both axes)</td>
</tr>
<tr>
<td>Y1,Y2, and Microscope-axis stroke</td>
<td>300 mm(Y1,Y2,both axes)</td>
</tr>
<tr>
<td>Y1,Y2, and Microscope-axis positioning accuracy</td>
<td>0.005/300 mm</td>
</tr>
<tr>
<td>Z1, Z2, and Focus-axis positioning accuracy</td>
<td>0.003/1 mm</td>
</tr>
<tr>
<td>Theta-axis rotation range</td>
<td>186°</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC200 - 220V 3phase 50/60 Hz</td>
</tr>
<tr>
<td>Air supply</td>
<td>0.55 - 0.7 MPa 390 L/min</td>
</tr>
<tr>
<td>D.I.water supply</td>
<td>0.4 - 0.5 MPa 12 L/min</td>
</tr>
<tr>
<td>Spindle cooling water</td>
<td>0.3 - 0.5 MPa 3 L/min</td>
</tr>
<tr>
<td>Machine size (W×D×H mm)</td>
<td>1,600×1,680×1,780 mm</td>
</tr>
</tbody>
</table>

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