The new MZ01 offers a load capacity of 1kg with a maximum reach of 350mm.
MZ01 expands the successful MZ lineup as the current smallest model

- The new MZ01 offers a load capacity of 1kg with a maximum reach of 350mm.
- As a lightweight high-speed robot, the compact six-axis robot combines short cycle times with a high repeatability of ±0.02mm.
- The MZ01 was specially developed for the handling and assembly of small workpieces.

### BASIC SPECIFICATION OF ROBOT

<table>
<thead>
<tr>
<th>Item</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robot model</td>
<td>MZ01-01</td>
</tr>
<tr>
<td>Construction</td>
<td>articulated</td>
</tr>
<tr>
<td>Number of axes</td>
<td>6</td>
</tr>
<tr>
<td>Max. reach</td>
<td>350mm</td>
</tr>
<tr>
<td>Installation</td>
<td>Floor / Inverted</td>
</tr>
<tr>
<td>Drive system</td>
<td>AC servo drive</td>
</tr>
</tbody>
</table>

**Max. working envelope**

- J1: ±2.97 rad (±170°)
- J2: 1.37~+1.48 rad (90~+90°)
- J3: 0.87~+1.57 rad (50~+90°)
- J4: ±2.53 rad (±150°)
- J5: ±1.88 rad (±135°)
- J6: 0.628 rad (±360°)

**Max. speed**

- J1: 5.59 rad/s (320°/s)
- J2: 5.59 rad/s (320°/s)
- J3: 6.54 rad/s (375°/s)
- J4: 10.47 rad/s (600°/s)
- J5: 10.47 rad/s (600°/s)
- J6: 10.47 rad/s (600°/s)

**Max. payload**

- Handgelenk: 1.0kg
- Additional load Arm: max. 0.25kg

**Allowable static load torque**

- J4: 0.9N•m
- J5: 0.78N•m
- J6: 0.068N•m

**Allowable moment of inertia**

- J4: 0.008kg•m²
- J5: 0.008kg•m²
- J6: 0.064kg•m²

**Position repeatability**

- ±0.02mm

**Humidity**

- Temperature: 0~40°C
- Humidity: 20~85% RH (No dew condensation)
- Vibration to the installation face: 1rad/s²
- Position repeatability: ±0.02mm

### ROBOT DIMENSIONS AND WORKING ENVELOPE

- **Wrist Dimensions**
- **Installation Dimensions**