**ISDB-MX-200**

Single-axis robot/Medium, dustproof, mid-support type/Actuator width: 120mm/200W Straight shape

**ISPDB-MX-200**

Single-axis robot/Medium, dustproof, mid-support type/Actuator width: 120mm/200W Straight shape

**High precision specification**

### Model Number/Specification

<table>
<thead>
<tr>
<th>Model number/Specification</th>
<th>Encoder type</th>
<th>Motor output (W)</th>
<th>Stroke in 100mm increments (mm)</th>
<th>Speed (mm/s)</th>
<th>Acceleration (Note 1)</th>
<th>Payload (Note 1)</th>
<th>Rated thrust (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISDB(ISPDB)-MX-200-30</td>
<td>A3</td>
<td>200</td>
<td>1200</td>
<td>1.0</td>
<td>0.4</td>
<td>30</td>
<td>113.9</td>
</tr>
<tr>
<td>ISDB(ISPDB)-MX-200-30</td>
<td>A1</td>
<td>30</td>
<td>800–1600</td>
<td>0.4</td>
<td>0.4</td>
<td>45</td>
<td>170.9</td>
</tr>
</tbody>
</table>

*Refer to P. 10 for the details of items comprising the model number.

### Option

- **Name**
  - Cable exit from the left: A1
  - Cable exit from the rear left: A1E
  - Cable exit from the right: A3
  - Cable exit from the rear right: A3E
  - Creep sensor: C
  - Creep sensor on the opposite side: CL

- **Model number/Reference page**
  - Reference page: P11

### Common Specifications

- **Positioning repeatability** (Note 2): ±0.01mm (±0.005mm)
- **Drive method** (Note 3): Ball screw Ø30mm, rolled C5 (equivalent to rolled C5)
- **Last Motion** (Note 4): 0.05mm (0.01mm) max.
- **Dynamic allowable load moment** (Note 5): Mx 69.6N•m, Mb: 99.0N•m, Mc: 161.7N•m
- **Overloading load**
- **Dynamic straightness** (Note 6): 0.02mm/m max.
- **Base material**
- **Applicable controller**
  - T1: XSEL-J/K, T2: XSEL-P/Q, SSEL, SCON
- **Cable length** (Note 7): N: None, S: 3m, M: 5m, X: specified length
- **Protection structure**
- **Ambient operating temperature/humidity**
  - 0 to 40°C, 85%RH max. (non-condensing)

### Diagram

- **Configuration**
- **CAD drawings are available for download from our website.**
- **3D CAD**

### Dimensions, Mass and Maximum Speed by Stroke

- **Stroke (mm)**: 800, 900, 1000, 1100, 1200, 1300, 1400, 1600, 1800, 2000
- **Rated Maximum Rated Maximum Rated thrust (N)**: 133.9, 170.9

### Applicable Controller Specifications

- **Applicable Controller**
  - X-SEL-P/Q
  - X-SEL-J/K
  - SSEL
  - SCON

- **Maximum number of connectable axes**
  - 6 axes

- **Operating method**
  - Absolute/Incremental

- **Power-supply voltage**
  - Single-phase 200VAC

- **Reference page**
  - P56

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*Refer to P. 9 for the relationship of acceleration and payload.

*The values in [ ] apply to the ISPDB series. Other specification values apply commonly to the ISDB and ISPDB.

*When the traveling life is 10,000km.

*The value of dynamic straightness is when the high straightness, precision specification (option) is specified.

*The maximum cable length is 30m. Specify a desired length in meters. (Example: X08 = 8m)