SRD03 - Rod type (With support guide)

### Ordering method

**SRD03 - Lead Motor-less single-axis robots**

<table>
<thead>
<tr>
<th>Model</th>
<th>Lead</th>
<th>Motor-less single-axis robots</th>
</tr>
</thead>
</table>

**Note:**
1. See P.153 for grease gun nozzles.
2. If changing from the origin position at the time of purchase, the machine reference amount must be reset. For details, refer to the manual.

### Basic specifications

**Motor:**
- 42 Step motor

**Resolution (Pulse/revolution):** 20480

**Repeatability (mm):** +/-0.02

**Deceleration mechanism:** Ball screw φ8

**Ball screw load (mm):** 12 6

**Maximum speed (mm/sec):** 500 250

**Maximum payload (kg):**
- Horizontal: 10
- Vertical: 7.5

**Max. pressing force (N):** 75 100

**Stroke (mm):** 50 to 200 (50pitch)

**Lost motion:** 0.1mm or less

**Lost motion:** +/-0.02

**Overall length:**
- Horizontal: Stroke+236.5
- Vertical: Stroke+276.5

**Maximum outside dimension of body cross-section (mm):** W48 × H56.5

**Cable length (m):** Standard: 1 / Option: 3, 5, 10

### Speed vs. payload

#### Horizontal

<table>
<thead>
<tr>
<th>Payload (kg)</th>
<th>Speed (mm/sec)</th>
</tr>
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<tbody>
<tr>
<td>0.1 to 2.5</td>
<td>0 to 250</td>
</tr>
<tr>
<td>2.6 to 5.5</td>
<td>20 to 100</td>
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<td>5.6 to 8.5</td>
<td>10 to 50</td>
</tr>
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<td>8.6 to 11.5</td>
<td>5 to 10</td>
</tr>
<tr>
<td>11.6 to 14.5</td>
<td>5 to 1.5</td>
</tr>
<tr>
<td>14.6 to 17.5</td>
<td>1 to 0.5</td>
</tr>
</tbody>
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#### Vertical

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### Running life

5000 km on models other than shown below. Running life of only the model shown below becomes shorter than 5000 km depending on the payload, so check the running life curve.

### Controller

**Controller Operation method**
- TS-S2 / TS-SH: I/O point trace / Remote command
- TS-SD: Pulse train control

**Remote command**
- EP: EtherNet/IP TM
- PT: PROFINET
- CC: CC-Link
- GW: No I/O board Note 5

**Controller Operation method**
- TS-S2 / TS-SH: I/O point trace / Remote command
- TS-SD: Pulse train control

**I/O point trace**
- EP: EtherNet/IP TM
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- PN: PNP

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