**Actuator Specifications**

**RCP2-RA4C**

**ROBO Cylinder**

**Rod Type**

**45mm Width**

**Pulse Motor**

**Straight Type**

### Actuator Specifications

#### Lead and Load Capacity

(1) Please note that the maximum load capacity decreases as the speed increases.

#### Stroke and Maximum Speed

(2) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

#### Cable List

(3) The load capacity is based on operation at an acceleration of 0.2G.

(4) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

Due to the characteristics of the pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

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### Actuator Specifications

#### Drive System

Ball screw ø10mm C10 grade

#### Positioning Repeatability

±0.02mm

#### Lost Motion

0.1mm or less

#### Rod Diameter

ø3.0mm

#### Non-rotating accuracy of rod

±1.5 deg

#### Ambient Operating Temp./Humidity

0 °C - 40°C, 85% RH or less (non-condensing)

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The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.

### Compatible Controllers

The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.

#### Specifications

- **Controller Types**: PSEP-C, PSEP-CW, PCON-C, PCON-PL, PCON-PO, PCON-SE, PCON-CG, PCON-PL, PCON-PO, PCON-SE
- **Power Supply Options**: AC100V, AC200V
- **Maximum Points**: Up to 512 points
- **Operational Range**: 50 to 300 strokes
- **Rated Weight**: 1.35 to 2.35 kg

#### Dimensions/Weight by Stroke

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<thead>
<tr>
<th>Stroke</th>
<th>50</th>
<th>100</th>
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<th>200</th>
<th>250</th>
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<tbody>
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<td>1.85</td>
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**Note:**

- Do not apply any external force on the rod from any direction other than the direction of the rod's motion. If a force is exerted on the rod in a perpendicular or rotational direction, the detent may become damaged.
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- The motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the M.E.; therefore, please watch for any interference with the surrounding objects.
- ME: Mechanical end
- SE: Stroke end
- The values enclosed in ( ) are reference dimensions.
- Please note that there is no T-slot on the base of the brake unit.
- The orientation of the bolt will vary depending on the product.
- Compared to the standard model, the brake-equipped model is longer by 58mm and heavier by 0.4kg.
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