YK400XR  Standard type: Small type
LOW COST HIGH PERFORMANCE MODEL.

### Ordering method

<table>
<thead>
<tr>
<th>Model</th>
<th>YK400XR</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return-to-origin method</td>
<td>Hollow shaft</td>
<td>Cable</td>
</tr>
<tr>
<td>2 axis stroke</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RCX340-4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Specify various controller setting items. RCX340 ➔ 544

### Specifications

<table>
<thead>
<tr>
<th>Axis specifications</th>
<th>X-axis</th>
<th>Y-axis</th>
<th>Z-axis</th>
<th>R-axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>225 mm</td>
<td>175 mm</td>
<td>175 mm</td>
<td>150 mm</td>
</tr>
<tr>
<td>Rotation angle</td>
<td>+/-132°</td>
<td>+/-135°</td>
<td>+/-140°</td>
<td>+/-360°</td>
</tr>
<tr>
<td>AC servo motor output</td>
<td>200 W</td>
<td>100 W</td>
<td>100 W</td>
<td>100 W</td>
</tr>
</tbody>
</table>

### Deceleration mechanism

- **Speed reducer**: Harmonic drive
- **Harmonic drive**
- **Ball screw**
- **Ball speed reducer**

### Transmission method

**Motor to speed reducer**: Direct-coupled
**Speed reducer to output**: Direct-coupled
**Timing belt**: Timing belt

### Repeatability

**R-axis specifications**

1. **Soft limit**: +/-0.01 mm
2. **Mechanical stopper (X,Y,Z axis)**: +/-0.01 mm
3. **Ball speed reducer**: +/-0.01 °

### Maximum payload

3 kg (Standard specification), 2 kg (Option specifications Note 2).

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

### User tubing

- **User tubing (Outer diameter)**
  - User tubing 1 (ϕ 4 black)
  - User tubing 2 (ϕ 4 red)
  - User tubing 3 (ϕ 4 blue)

### User wiring connector

- **J.S.T. Connector**: SM connector: SMR-11V-B
- **Pin**: SYM-001T-P0.6 is attached
- **User wiring connector**: Use AP-K2N for the crimping machine

### Controller

<table>
<thead>
<tr>
<th>Controller</th>
<th>Power capacity (VA)</th>
<th>Operation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCX340</td>
<td>1000</td>
<td>Programming / Remote command / Operation using RS-232C communication</td>
</tr>
</tbody>
</table>

Note. “Harmonic” and “Harmonic drive” are the registered trademarks of Harmonic Drive Systems Inc.

Note. The movement range can be restricted by adding the X- and Y-axis mechanical stoppers. (The maximum movement range was set at shipment.)

See our robot manuals (installation manuals) for detailed information.

Note. To set the standard coordinates with high accuracy, use a standard coordinate setting item (option). Refer to the user’s manual (installation manual) for more details.

### Working envelope

**Maximum arm length**: 400mm

**Rotation angle**: 124.7° ± 2°

**Specifications**

- **Arm length**: 400mm
- **Rotation angle**: 124.7° ± 2°
- **Rotation angle**: 124.7° ± 2°

### Cross section A-A

- **Tapped hole for user wiring**: 4-M3 × 0.5 Depth 6
- The weight of the tool attached here should be added to the tip mass.

### Note

- **XY-axis origin position**: When performing return-to-origin, move the X-axis and Y-axis counterclockwise and clockwise, respectively in advance from the position shown above.

---

**Note 1.** This is the value at a constant ambient temperature. (X,Y axes)

**Note 2.** When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

**Note 3.** Specifications

- **Axis mechanism**: 1.Soft limit, 2.Mechanical stopper (X,Y,Z axis)
- **User tubing (Outer diameter)**
  - User tubing 1 (ϕ 4 black)
  - User tubing 2 (ϕ 4 red)
  - User tubing 3 (ϕ 4 blue)

**Note 4.** Maximum payload of option specifications (with user wiring/tubing through spline type) is 2kg.

**Note 5.** Do not move the cable.

**Note 6.** Do not attach a large load to it.