### Ordering method

<table>
<thead>
<tr>
<th>Model</th>
<th>Z axis stroke</th>
<th>Cable length (mm)</th>
<th>Controller/number of controllable axes</th>
<th>Safety standard</th>
<th>Motor (OPA)</th>
<th>Motor (OPB)</th>
<th>Option (OPC)</th>
<th>Option (OPD)</th>
<th>Absolute battery</th>
</tr>
</thead>
<tbody>
<tr>
<td>YK800XC</td>
<td></td>
<td></td>
<td>RCX340-4</td>
<td>Safety standard</td>
<td>Motor (OPA)</td>
<td>Motor (OPB)</td>
<td>Option (OPC)</td>
<td>Option (OPD)</td>
<td>Absolute battery</td>
</tr>
</tbody>
</table>

Specify various controller setting items. RCX340 ▶️ 566

### Basic 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 (mm)</td>
<td>450</td>
<td>350</td>
<td>200</td>
<td>400</td>
</tr>
<tr>
<td>Rotation angle (°)</td>
<td>±120</td>
<td>±145</td>
<td>±180</td>
<td>±180</td>
</tr>
<tr>
<td>AC servo motor output (W)</td>
<td>800</td>
<td>400</td>
<td>400</td>
<td>200</td>
</tr>
</tbody>
</table>

### Repeatability (XYZ: mm) (R: °)

- X axis: ±0.02
- Y axis: ±0.01
- Z axis: ±0.005
- R axis: ±0.005

### Maximum speed (XYZ: m/sec) (R: °/sec)

- X axis: 7.3
- Y axis: 1.7
- Z axis: 600
- R axis: 7.3

### Maximum payload (kg)

- X axis: 20

### Standard cycle time: with 2kg payload (sec)

- 0.57

### R-axis tolerable moment of inertia

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

Note 2: The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3: Per 1cf (0.1 µm base), when suction blower is used.

Note 4: The necessary intake amount varies depending on the use conditions and environment.

### Controller

<table>
<thead>
<tr>
<th>Controller</th>
<th>Power capacity (VA)</th>
<th>Operation method</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCX340</td>
<td>2000</td>
<td>Programming / k/0 point trace / Remote command / Operation using RS-232C communication</td>
</tr>
</tbody>
</table>

Note: The movement range can be limited by changing the positions of X and Y axes mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)

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

Our robot manuals (installation manuals) can be downloaded from our website at the address below:

https://global.yamaha-motor.com/business/robot/

### User tubing

- User tubing 1 (ϕ6 Black)
- User tubing 2 (ϕ6 Red)
- User tubing 3 (ϕ6 Blue)

### Joint (Note) (ϕ12 x 2 pcs.)

- User tubes 1 (ϕ6 Black)
- User tubes 2 (ϕ6 Red)
- User tubes 3 (ϕ6 Blue)

### User wiring (sq × wires)

- 0.2 × 20

### User tubes 1 (ϕ6 Black)

### User tubes 2 (ϕ6 Red)

### User tubes 3 (ϕ6 Blue)

### D-sub connector for user wiring

(Adapted to No.1 to 20)

### User cables

- 4-ϕ14

### Use M12 bolt for installation

- M12 x 1.75 Depth 10

### Fixing method

- M12 x 1.75 Depth 10

### Clean type: Large type

### Intake air (N/sec)

- 60

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

Note 2. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

Note 3. Per 1cf (0.1 µm base), when suction blower is used.

Note 4. The necessary intake amount varies depending on the use conditions and environment.

### Animation

- User tubes 1 (ϕ6 Black)
- User tubes 2 (ϕ6 Red)
- User tubes 3 (ϕ6 Blue)

### X-Y axis mechanical stopper position

- Joint (Note) (ϕ12)

### Note: For details about tubing work, refer to the User’s Manual.

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**YK800XC**

- Arm length 800mm
- Maximum payload 20kg

---

**RCX340 ▶️ 566**

---

**YK800XC**

- YK800XC
- Clean type: Large type

---

**Controller**

- RCX340
- 2000
- Programming / k/0 point trace / Remote command / Operation using RS-232C communication

---

**Controller Information**

- RCX340-4
- Number of controllable axes
- Safety standard
- Motor (OPA)
- Motor (OPB)
- Option (OPC)
- Option (OPD)
- Absolute battery

---

**Limitations**

- 1. Soft limit
- 2. Mechanical stopper (X, Y, Z axes)

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**Robot Cable Length (m)**

- Standard: 3.5
- Option: 5, 10

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**Weight (kg)**

- 58

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**Degree of Cleanliness**

- CLASS 10

---

**Intake Air (N/min)**

- 60

---

**Clean Type**

- Large type

---

**Note 1.**

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

**Note 2.**

The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

**Note 3.**

Per 1cf (0.1 µm base), when suction blower is used.

**Note 4.**

The necessary intake amount varies depending on the use conditions and environment.