**YK800XC**

*Clean type: Large type*

- **Arm length**: 800mm
- **Maximum payload**: 20kg

### Ordering method

**Model**

- **YK800XC**
- **RCX340-4**

**Controller**

- **Power capacity (VA)**: 2000

**Operation method**

- Programming / I/O point trace / Remote command / Operation using RS-232C communication

### 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></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>
<tr>
<td>Repeatability (XYZ: mm) (R: ˚)</td>
<td>+/-0.02</td>
<td>+/-0.01</td>
<td>+/-0.005</td>
<td></td>
</tr>
<tr>
<td>Maximum speed (XYZ: m/sec) (R: ˚/sec)</td>
<td>7.3</td>
<td>1.7</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>Maximum payload (kg)</td>
<td>20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard cycle time: with 2kg payload (sec)</td>
<td>0.2 x 20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User wiring (sq x wires)</td>
<td>0.2 x 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User tubing (Outer diameter)</td>
<td>ϕ6 x 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel limit</td>
<td>1. Soft limit, 2. Mechanical stopper (X, Y, Z axes)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robot cable length (m)</td>
<td>Standard: 3.5, Option: 5, 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>58</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Degree of cleanliness</td>
<td>CLASS 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intake air (N/min)</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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.

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**YK800XC**

- **Arm rotation radius**: ϕ12
- **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)

- **M4 grounding terminal**
- **Joint (Note)** (ϕ12)

- **Working envelope**
- **X, Y axis mechanical stopper position**

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**Controller**

- **RCX340**

**Ordering method**

- **Basic specifications**
- **Controller Power capacity (VA)**
- **Operation method**

**Note:** The movement range can be limited by changing the positions of X and Y axis 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/