**Specifications**

<table>
<thead>
<tr>
<th>Axis</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>500 mm</td>
<td>400 mm</td>
<td>200 mm</td>
<td>400 mm</td>
</tr>
<tr>
<td>Rotation angle</td>
<td>$+/-130^\circ$</td>
<td>$+/-150^\circ$</td>
<td>$+/-360^\circ$</td>
<td></td>
</tr>
<tr>
<td>AC servo motor output</td>
<td>750 W</td>
<td>400 W</td>
<td>400 W</td>
<td>200 W</td>
</tr>
</tbody>
</table>

**Deceleration mechanism**

- Speed reducer: Harmonic drive
- Transmission method: Direct-coupled
- Motor to speed reducer: Harmonic drive
- Speed reducer to output: Ball screw
- R-axis tolerable moment of inertia: 1.0 kg\(\cdot\)m\(^2\)

**Maximum speed**

- 9.5 m/s
- 2 m/s
- 7 m/s

**Maximum payload**

- 20 kg

**Standard cycle time (with 2kg payload)**

- X-axis: 0.49 sec
- Y-axis: 0.49 sec

**User wiring**

- 0.2 sq \(\times\) 20 wires

**User tubing (Outer diameter)**

- \(\phi 6 \times 3\)

**Travel limit**

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

**Robot cable length**

- Standard: 3.5 m
- Option: 5 m, 10 m

**Weight**

- Z axis 200 mm: 54 kg
- Z axis 400 mm: 58 kg

**Controller**

- Controller: RCX340
- Power capacity (VA): 2500
- Operation method: Programming / I/O point trace / Remote command / Operation using RS-232C communication

**Note:** Harmonic and "Harmonic drive" are the registered trademarks of Harmonic Drive Inc. See our robot manuals (installation manuals) for detailed information.

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

**Note:** Consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

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**Controller Specifications**

- Controller: RCX340
- RCX240-R3
- Power capacity (VA): 2500

**Specifications**

- RCX340
- RCX240-R3

**Note:** Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.