**Articulated robots**

**Linear conveyor modules**

**Compact single-axis robots**

**TRANSERVO Motor-less single-axis robots**

**PHASER Cartesian robots**

**XY-X SCARA robots**

**YK-X Pick & place robots**

**YP-X CleanController**

<table>
<thead>
<tr>
<th>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>300 mm</td>
<td>300 mm</td>
<td>200 mm</td>
<td>–</td>
</tr>
<tr>
<td>Rotation angle</td>
<td>+/-130°</td>
<td>+/-145°</td>
<td>+/-360°</td>
<td>–</td>
</tr>
<tr>
<td>Deceleration mechanism</td>
<td>Transmission method</td>
<td>Motor to speed reducer</td>
<td>Speed reducer to output</td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>8.4 m/s²</td>
<td>1700 m/s²</td>
<td>Direct-coupled</td>
<td></td>
</tr>
<tr>
<td>Maximum payload</td>
<td>10 kg (Standard type), 9 kg (Tool flange mount type)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard cycle time: with 2kg payload</td>
<td>0.46 sec</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-axis tolerable moment of inertia</td>
<td>0.30 kgm²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User wiring</td>
<td>0.2 sq x 20 wires</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>User tubing (Outer diameter)</td>
<td>6 × 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Travel limit</td>
<td>1. Soft limit 2. Mechanical stopper (X,Y,Z axis)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Robot cable length</td>
<td>Standard: 3.5 m  Option: 5 m, 10 m</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>31 kg</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Controller**

- **RCX340**
  - Power capacity (VA): 1700
  - Operation method: Programming / I/O point trace / Remote command / Operation using RS-232C communication

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/

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**Note 1.** When installing the robot, always follow the specifications. Do not install the ceiling-mounted robot upside down or do not install the inverse type robot to a ceiling. Incorrect installation can cause trouble or malfunction.

**Note 2.** When reciprocating 300mm in horizontal and 25mm in vertical directions.

---

**Note 3.** This is the value at a constant ambient temperature. (X,Y axes)

**Note 4.** When reciprocating 300mm in horizontal and 25mm in vertical directions.

**Note 5.** The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

**Note 6.** Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

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