**YK1000XGS**  
**Wall-mount / inverse type**

- **Arm length**: 1000mm
- **Maximum payload**: 20kg

### Ordering method

**YK1000XGS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Installation method</th>
<th>Z-axis stroke</th>
<th>Tool-flange connector</th>
<th>Cable</th>
<th>Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000</td>
<td>A (wall-mount)</td>
<td>+/-130°</td>
<td>80°</td>
<td>20A</td>
<td>RCX340-4</td>
</tr>
<tr>
<td>10000</td>
<td>Z (ceiling-mount)</td>
<td>+/-150°</td>
<td>80°</td>
<td>20A</td>
<td>RCX240</td>
</tr>
</tbody>
</table>

**Specify various controller setting items.**

- RCX340-4: P.498
- RCX240: P.495

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

### Specifications

**YK1000XGS**

<table>
<thead>
<tr>
<th>X-axis</th>
<th>Y-axis</th>
<th>Z-axis</th>
<th>R-axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>610 mm</td>
<td>400 mm</td>
<td>200 mm</td>
<td>–</td>
</tr>
</tbody>
</table>

**Axis specifications**

- **Arm length**: 610 mm
- **Rotation angle**: +/-130°
- **AC servo motor output**: 750 W
- **Robot cable length**: 120 m

**Deceleration mechanism**

- **Speed reducer**: Harmonic drive
- **Transmission method**: Direct-coupled

**Repeatability**

- **X-axis**: +/-0.02 mm
- **Y-axis**: +/-0.01 mm
- **Z-axis**: +/-0.004°

**Maximum speed**

- **X-axis**: 10.6 m/sec
- **Y-axis**: 17 m/sec
- **Z-axis**: 5000 mm/sec

**Maximum payload**

- **X-axis**: 20 kg (Standard specification)
- **Y-axis**: 19 kg (Option specifications)

**Standard cycle time with 2kg payload**

- **X-axis**: 0.49 sec
- **Y-axis**: 1.0 kgm
- **Z-axis**: 20 kg

**Robot cable length**

- **X-axis**: 200 mm
- **Y-axis**: 400 mm
- **Z-axis**: 200 mm

**Weight**

- **X-axis**: 5.6 kg
- **Y-axis**: 5.5 kg
- **Z-axis**: 5.5 kg

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

**Note 2.** When reciprocating 300mm in horizontal and 200mm in vertical directions.

**Note 3.** There are limits to acceleration coefficient settings. See P.539.

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

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### Controller

**RCX340-4**

- **Power capacity**: 2500 W
- **Operation method**: Programming / I/O point trace / Remote command / Communication

RCX240-R3

- **Power capacity**: 2500 W
- **Operation method**: Programming / I/O point trace / Remote command / Communication

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

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:

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