### 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</td>
<td>200 mm</td>
<td>400 mm</td>
<td>200 mm</td>
<td>400 mm</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
- **Transmission method**: Harmonic drive
- **Motor to speed reducer**: Ball screw
- **Speed reducer to output**: Harmonic drive

- **Repeatability**: +/-0.02 mm
- **Maximum speed**: 7.7 m/sec
- **R-axis tolerable moment of inertia**: 1.0 kgm²
- **Maximum payload**: 20 kg
- **Standard cycle time**: 2 kg payload 0.47 sec
- **User tubing (Outer diameter)**: φ 6 x 3
- **User tubing**: 0.2 sq × 20 wires
- **Travel limit**: 1. Soft limit 2. Mechanical stopper (X, Y, Z axis)
- **Robotic cable length**: Standard: 3.5 m Option: 5 m, 10 m
- **Weight**: Z axis 200 mm: 48 kg Z axis 400 mm: 50 kg

### Controller

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

#### Ordering method

- **Model**: YK600XGH
- ** Arms**: 1
- **Controller**: RCX340
- **Number of controllable axes**: 4
- **Safety standard**: Option A (OPA)
- **Option A (OPA)**: 2500
- **Option B (OPB)**: 2500
- **Option C (OPC)**: 2500
- **Option D (OPD)**: 2500
- **Option E (OPE)**: 2500

#### Controller

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

### Note

- **Note 1**: This is the value at a constant ambient temperature. (X, Y axes)
- **Note 2**: When reciprocating 300mm in horizontal and 25mm in vertical directions.
- **Note 3**: There are limits to acceleration coefficient settings. See P.539.

### YK600XGH

- **Arm length**: 600 mm
- **Maximum payload**: 20 kg

**Specifications**

- **Arm length**: 600 mm
- **Model**: YK600XGH
- **Controller**: RCX340
- **Number of controllable axes**: 4
- **Safety standard**: Option A (OPA)
- **Option A (OPA)**: 2500
- **Option B (OPB)**: 2500
- **Option C (OPC)**: 2500
- **Option D (OPD)**: 2500
- **Option E (OPE)**: 2500
- **Absolute battery**

**Note**

- "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.
- 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.
- To set the standard coordinates with high accuracy, use a standard coordinate setting (p option). Refer to the user’s manual (installation manuals) for more details.

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

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