### Basic Specifications

**Model (3 axes / ZFH)**

- **X-axis:** F17
- **Y-axis:** F14H
- **Z-axis:** F10-BK equivalent

**AC Servo Motor Output (W)**

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

**Repeatability**

- **X-axis:** +/-0.01
- **Y-axis:** +/-0.01
- **Z-axis:** +/-0.01

**Drive System**

- **Ball screw (Class C7)**
- **Ball screw (Class C7)**
- **Ball screw (Class C7)**

**Maximum Speed (mm/sec)**

- **X-axis:** 1200
- **Y-axis:** 1200
- **Z-axis:** 600

**Moving Range (mm)**

- **X-axis:** 250 to 1250
- **Y-axis:** 150 to 850
- **Z-axis:** 150 to 350

**Robot Cable Length (m)**

- **Standard:** 3.5
- **Option:** 5.10

### Maximum Payload

<table>
<thead>
<tr>
<th>X stroke (mm)</th>
<th>Y stroke (mm)</th>
<th>Z stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>13</td>
<td>12</td>
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<tr>
<td>250</td>
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<tr>
<td>750</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>850</td>
<td>12</td>
<td>11</td>
</tr>
</tbody>
</table>

### Controller

**Controller:** RCX240-R

**Operation Method:**

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

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Note 1: The standard types are ZFH with higher rigidity as compared with ZF types which are conventional standard types. When you need the ZF type, please consult YAMAHA.

Note 2: Use caution that the above conditions (critical speed) differ from single-axis robots'. Note 2.

Note 3: Positioning repeatability in one direction.

Note 4: When the X-axis stroke is longer than 850mm (750mm for Y-axis), resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table below.

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**MXYx 3 axes / ZFH**

**X stroke:** 250 350 450 550 650 750 850 950 1050 1150 1250

**Y stroke:** 150 250 350 450 550 650 750 850 950 1050 1150 1250

**Z stroke:** 150 250 350

**Maximum Speed for each stroke (mm/sec)**

- **X-axis:** 1200
- **Y-axis:** 960
- **Z-axis:** 840

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Note 1: The moving range when returning to origin and the stop position when stopping by the mechanical stopper.

Note 2: Use cable extraction port.

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Note 3: When the X-axis stroke is longer than 850mm (750mm for Y-axis), resonance of the ball screw may occur depending on the operation conditions (critical speed). In this case, reduce the speed setting on the program by referring to the maximum speeds shown in the table at the left.