### Specification

<table>
<thead>
<tr>
<th>X-axis</th>
<th>Y-axis</th>
<th>Z-axis: ZFL10</th>
<th>Z-axis: ZFL10</th>
</tr>
</thead>
<tbody>
<tr>
<td>F17</td>
<td>F14H-BK</td>
<td>F10 equivalent guide-reinforced model</td>
<td></td>
</tr>
</tbody>
</table>

AC servo motor output (W)  
- 400  
- 200  
- 200  

Repeatability (mm)  
- +/-0.01  
- +/-0.01  
- +/-0.01  

Drive system  
- Ball screw (Class C7)  
- Ball screw (Class C7)  
- Ball screw (Class C7)  

Ball screw lead (Deceleration ratio) (mm/sec)  
- 1200  
- 1200  
- 1200  
- 600  

Moving range (mm)  
- 250 to 1250  
- 150 to 850  
- 150 to 350  

Robot cable length (m)  
- Standard: 3.5  
- Option: 5.10  

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

Note 1: Use caution that the frame machining (installation holes, tap holes) differs from single-axis robots.

Note 2: Positioning repeatability in one direction.

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 below.

### Maximum payload (kg)

<table>
<thead>
<tr>
<th>Z stroke (mm)</th>
<th>Y stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>8</td>
</tr>
<tr>
<td>250</td>
<td>8</td>
</tr>
<tr>
<td>350</td>
<td>8</td>
</tr>
<tr>
<td>550</td>
<td>8</td>
</tr>
<tr>
<td>750</td>
<td>8</td>
</tr>
<tr>
<td>950</td>
<td>8</td>
</tr>
<tr>
<td>1150</td>
<td>8</td>
</tr>
<tr>
<td>1350</td>
<td>8</td>
</tr>
</tbody>
</table>

### Controller

- Controller: RCX240-R
- Operation method: Programming / I/O point trace / Remote command / Operation using N3-230C communication

### Note

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

2. User cable extraction port.

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.