

# YK400XGC

● Arm length 400mm ● Maximum payload 4kg



## Ordering method

**YK400XGC - 150** **S** **RCX340-4**

Model: Z axis stroke 150: 150mm; Tool flange: No entry: None, F: With tool flange; Hollow shaft: S: With hollow shaft; Cable length: 3L: 3.5m, 5L: 5m, 10L: 10m

Controller / Number of controllable axes: RCX340-4; Safety standard; Option A (OP.A); Option B (OP.B); Option C (OP.C); Option D (OP.D); Option E (OP.E); Absolute battery

Specify various controller setting items. RCX340 ▶ **P.494**

**RCX240S** **BB**

Controller: RCX240S; CE Marking; Expansion I/O; Network option; IVY System; Gripper; Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.481**

## Basic specifications

	X axis	Y axis	Z axis	R axis
<b>Axis specifications</b>				
Arm length (mm)	250	150	150	-
Rotation angle (°)	+/-129	+/-144	-	+/-360
<b>AC servo motor output (W)</b>	200	150	50	100
<b>Repeatability</b> <sup>Note 1</sup> (XYZ: mm) (R: °)	+/-0.01		+/-0.01	+/-0.004
<b>Maximum speed</b> (XYZ: m/sec) (R: °/sec)	6.1		1.1	1020
<b>Maximum payload (kg)</b>	4			
<b>Standard cycle time: with 2kg payload (sec)</b> <sup>Note 2</sup>	0.57			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )	0.05			
<b>User wiring (sq x wires)</b>	0.2x10			
<b>User tubing (Outer diameter)</b>	φ4x4			
<b>Travel limit</b>	1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard: 3.5 Option: 5, 10			
<b>Weight (kg)</b>	22.5			
<b>Degree of cleanliness</b>	ISO CLASS 3 (ISO 14644-1) <sup>Note 4+ESD</sup> <sup>Note 5</sup>			
<b>Intake air (Nl/min)</b>	30 <sup>Note 6</sup>			

## Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240S	1000	Programming / I/O point trace / Remote command / Operation using RS-232C 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.

Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) 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/>

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).  
Note 3. There are limits to acceleration coefficient settings. See P.524.  
Note 4. Class 10 (0.1μm) equivalent to FED-STD-209D  
Note 5. ESD (ElectroStatic Discharge) prevention is an option. Please contact our distributor.  
Note 6. The necessary intake amount varies depending on the use conditions and environment.

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