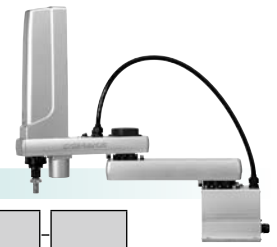


# YK800XG

Standard type: Large type

- Arm length 800mm
- Maximum payload 20kg



## Ordering method

**YK800XG**

Model	Z axis stroke	Tool flange	Cable
	200: 200mm 400: 400mm	No entry: None F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m

**RCX340-4**

Controller / Number of controllable axes	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.508**

**RCX240**

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	iVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ **P.495**

## Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	400 mm	400 mm	200 mm / 400 mm	-
	Rotation angle	+/-130 °	+/-150 °	-	+/-360 °
AC servo motor output		750 W	400 W	400 W	200 W
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Direct-coupled			
	Motor to speed reducer Speed reducer to output	Direct-coupled			
Repeatability <sup>Note 1</sup>		+/-0.02 mm		+/-0.01 mm	+/-0.004 °
Maximum speed		9.2 m/sec		2.3 m/sec / 1.7 m/sec	920 °/sec
Maximum payload		20 kg			
Standard cycle time: with 2kg payload <sup>Note 2</sup>		0.48 sec			
R-axis tolerable moment of inertia <sup>Note 3</sup>		1.0 kgm <sup>2</sup>			
User wiring		0.2 sq x 20 wires			
User tubing (Outer diameter)		φ 6 x 3			
Travel limit		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length		Standard: 3.5 m Option: 5 m, 10 m			
Weight		Z axis 200 mm: 52 kg Z axis 400 mm: 54 kg			

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

## Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R3	2500	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/>

## YK800XG

**Dimensions:**  
 80, 400, 400, 220, 161, 120, 189, 99, 220, 189, 99, 220, 50, 145, 75, 170, 245, 4-φ14 M12 bolt for installation, 4bolts used (base size), φ6 H7 <sup>+0.012</sup> through-hole, 4-φ6.6 through-hole, φ6 H7 <sup>+0.012</sup> through-hole, 4-φ6.6 through-hole, 38-φ0.02, 40-φ0, 40-φ0, 40-φ0, 90, 128, 63, 990mm Stroke, 790mm Stroke, 2200mm Stroke, 440, 368, 333.5, 319.5, 278, 273, 208.7±2, 400 Z axis stroke, 12, 200 Z axis stroke, φ25h7 <sup>0</sup> -0.021, φ55 Flat surface has no phase relation to R-axis origin, Standard type, Z-axis lower end mechanical stopper position, Width across flats: 24, Hollow diameter: φ18, Cross section A-A, 4-M4 x 0.7 through-hole for tool attachment. Four M4 x 10L binding screws are supplied. Do not screw the screws in deeper than 10mm from bottom surface of arm, 48, 46, 15, 36, M20 x 2.5 Depth20 (Bottom of spline), 54, 4-φ9, R27 (Min. cable bending radius) Do not move the cable. Keep enough space for the maintenance work at the rear of the base.

**Working envelope of left-handed system:**  
 Values shown in ( ) For tool flange specifications  
 Working envelope of left-handed system

**Working envelope of right-handed system:**  
 Values shown in ( ) For tool flange specifications  
 Working envelope of right-handed system  
 X-axis mechanical stopper position: 132°  
 Y-axis mechanical stopper position: 152°

**Option: Tool flange mount type:**  
 R27 (Min. cable bending radius) Do not move the cable. Keep enough space for the maintenance work at the rear of the base.

**Stroke specifications:**  
 YK800XG Z200mm Stroke specification  
 YK800XG Z400mm Stroke specification

- APPLICATION
- Linear conveyor / modules
- LCM100
- Compact single-axis robots
- TRANSERVO
- Single-axis robots
- FLIP-X
- Linear motor single-axis robots
- PHASER
- Cartesian robots
- XX-X
- SCARA robots
- YK-X
- Pick & place robots
- YP-X
- CLEAN
- CONTROLLER INFORMATION
- Orbit / Tray type
- Small / Medium types
- Large type
- Walk-mount / Inverse type
- Dust-proof & drip-proof type