

# YK600XG

Standard type: Medium type



- Arm length 600mm
- Maximum payload 10kg

## Ordering method

**YK600XG** [ ] [ ] [ ] **RCX340-4** [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

Model	Z axis stroke	Tool flange	Cable	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
	200: 200mm 300: 300mm	No entry: None F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.566**

## Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	300 mm	300 mm	200 mm / 300 mm	-
	Rotation angle	+/-130 °	+/-145 °	-	+/-360 °
AC servo motor output		400 W	200 W	200 W	200 W
Deceleration mechanism	Transmission method	Direct-coupled			
	Motor to speed reducer Speed reducer to output	Direct-coupled			
Repeatability <sup>Note 1</sup>		+/-0.01 mm	+/-0.01 mm	+/-0.004 °	
Maximum speed		8.4 m/sec	2.3 m/sec / 1.7 m/sec	1700 °/sec	
Maximum payload		10 kg (Standard type), 9 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload <sup>Note 2</sup>		0.43 sec			
R-axis tolerable moment of inertia <sup>Note 3</sup>		0.30 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		31 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

## Controller

Controller	Power capacity (VA)	Operation method
RCX340	1700	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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:  
<https://global.yamaha-motor.com/business/robot/>

## YK600XG

**Working envelope of left-handed system**  
 If the robot enters the inside of the corner of dimensions 135 and 220, the arm may be in contact with the machine harness. So, do not perform such motion.

**Working envelope of right-handed system**  
 If the robot enters the inside of the corner of dimensions 135 and 220, the arm may be in contact with the machine harness. So, do not perform such motion.

**Standard type**  
 300 Z axis stroke  
 Z-axis lower end mechanical stopper position

**Option: Tool flange mount type**  
 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.  
 R27 (Min. cable bending radius) Do not move the cable.  
 Keep enough space for the maintenance work at the rear of the base.  
 4-φ9