

YK700XGL

Standard type: Large type

- Arm length 700mm
- Maximum payload 10kg

Note. This model is a special order product. Please consult us for delivery time.

Ordering method

YK700XGL **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
	Z: 200mm 300: 300mm	No entry: None F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m								

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

Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	400 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	Speed reducer	Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Direct-coupled			
	Motor to speed reducer	Direct-coupled			
	Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}		+/-0.01 mm		+/-0.01 mm	+/-0.005 °
Maximum speed		9.2 m/sec		2.3 m/sec 1.7 m/sec	1700 °/sec
Maximum payload		10 kg (Standard type), 9 kg (Option: Tool flange mount type)			
Standard cycle time: with 2kg payload ^{Note 2}		0.50 sec			
R-axis tolerable moment of inertia ^{Note 3}		0.30 kgm ²			
User wiring		0.2 sq × 20 wires			
User tubing (Outer diameter)		φ6 × 3			
Travel limit		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length		Standard: 3.5 m Option: 5, 10 m			
Weight		32 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.

Controller

Controller	Power capacity (VA)	Operation method
RCX340	1700	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/>

YK700XGL

Working envelope of right-handed system

Working envelope of left-handed system

X-axis mechanical stopper position: 132°
 Y-axis mechanical stopper position: 147°

Standard 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.

Keep enough space for the maintenance work at the rear of the base.

R27 (Min. cable bending radius)
 Do not move the cable.

YK700XGL
 2200mm Stroke specification

YK700XGL
 2300mm Stroke specification

APPLICATION
 TRANSERO
 FLIP-X
 PHASER
 XY-X
 YK-X
 YP-X
 CLEAN
 CONTROLLER INFORMATION
 Ohb / Tiny type
 Small / Medium type
 Large type
 Wash-mount / Inverse type
 Dust-proof & drip-proof type