

YK700XGS

Wall-mount / inverse type

- Arm length 700mm
- Maximum payload 20kg

Ordering method

YK700XGS

Model	Installation method <small>Note 1</small>	Z axis stroke	Tool flange	Cable
	W: Wall-mount (same as per external view) I: Inverse wall-mount (upside down)	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
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Specify various controller setting items. RCX340 ▶ **P.494**

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ **P.481**

Note 1. When installing the robot, always follow the specifications.
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling.
Incorrect installation can cause trouble or malfunction.

Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	300 mm	400 mm	200 mm/400 mm	-
	Rotation angle	+/-130 °	+/-130 °	-	+/-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	Direct-coupled			
	Speed reducer to output	Direct-coupled			
Repeatability <small>Note 1</small>		+/-0.02 mm	+/-0.01 mm	+/-0.004 °	
Maximum speed		8.4 m/sec		2.3 m/sec	1.7 m/sec
Maximum payload		20 kg (Standard specification), 19 kg (Option specifications)			
Standard cycle time: with 2kg payload <small>Note 2</small>		0.42 sec			
R-axis tolerable moment of inertia <small>Note 3</small>		1.0 kgm ²			
User wiring		0.2 sq × 20 wires			
User tubing (Outer diameter)		φ 6 × 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: 50 kg Z axis 400 mm: 52 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.525.
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.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
<http://global.yamaha-motor.com/business/robot/>

YK700XGS

Standard type

- Z-axis upper end mechanical stopper position 6mm rise during Z-axis return-to-origin
- Z-axis lower end mechanical stopper position
- Flat surface has no phase relation to R-axis origin
- 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.
- The weight of the tool attached here should be added to the tip mass.
- M20 x 2.5 Depth20 (Bottom of spline)

Option: Tool flange mount type

- Hollow diameter φ18
- Width across flats: 24
- 4-φ6.6 through-hole
- φ6 H7 ^{+0.012} through-hole

Working envelope of left-handed system

Working envelope of right-handed system

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

View of B

YK700XGS Z200mm Stroke specification

YK700XGS Z400mm Stroke specification

Note. Inverse type is installed upside down.

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