

YK300XGS

Wall-mount / inverse type

● Arm length 300mm ● Maximum payload 5kg

Note. Built-to-order product.
Contact us for the delivery period.

Ordering method

YK300XGS **150** **RCX340-4** **RCX240S** **BB**

Model - **Installation method** ^{Note1} - **Z axis stroke** - **Tool flange** - **Hollow shaft** - **Cable**

W: Wall-mount (same as per external view)
U: Inverse wall-mount (upside down)

No entry: None
F: With tool flange

No entry: None
S: With hollow shaft

3L: 3.5m
5L: 5m
10L: 10m

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

Controller - **CE Marking** - **Expansion I/O** - **Network option** - **IVY System** - **Gripper** - **Battery**

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

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	150 mm	150 mm	150 mm	-
	Rotation angle	+/-120 °	+/-130 °	-	+/-360 °
AC servo motor output		200 W	150 W	50 W	100 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	+/-0.01 mm	+/-0.004 °
Maximum speed		4.4 m/sec	1.0 m/sec	1020 °/sec (wall-mount) 720 °/sec (inverse wall-mount)	
Maximum payload		5 kg (Standard specification), 4 kg (Option specifications ^{Note 4})			
Standard cycle time: with 2kg payload ^{Note 2}		0.49 sec			
R-axis tolerable moment of inertia ^{Note 3}		0.05 kgm ²			
User wiring		0.2 sq × 10 wires			
User tubing (Outer diameter)		φ 4 × 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		19.5 kg			

Note 1. This is the value at a constant ambient temperature.
Note 2. When reciprocating 25mm horizontally and 300mm horizontally (with a 2kg payload in rough-positioning arch motion).
Note 3. There are limits to acceleration coefficient settings. See P.537.
Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

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 position of Y axis mechanical stopper. (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/>

YK300XGS

D-sub connector for user wiring (No. 1 to 10 usable)

Working envelope
X-axis mechanical stopper position: 122°
Y-axis mechanical stopper position: 132°

(Option)

- Additional Z-axis upper limit stopper: Allows changing the Z-axis origin position to a point 12mm, 15mm or 18mm (in 3mm steps) lower than the standard position.
- Additional Z-axis lower limit stopper: Allows changing the Z-axis stopper position to a point 17mm or more higher than the standard position. (Lower limit of working envelope: 4mm from additional stopper) (Cannot be used when user wiring and tubing are set through spline shaft.)

Option: User wiring/tubing through spline type
Note. Inverse type is installed upside down.

APPLICATION
LCM100
TRANSEURO
FLIP-X
PHASER
XX-X
YK-X
YP-X
CLEAN
CONTROLLER INFORMATION
Orbit / TriV
Small / Medium type
Large type
Wall-mount / Inverse type
Dust-proof & drip-proof type

YK300XGS Tool flange mount type

