

YK1000XGS

Wall-mount / inverse type

- Arm length 1000mm
- Maximum payload 20kg

Ordering method

YK1000XGS

Model	Installation method W: Wall-mount (same as per external view) U: Inverse wall-mount (upside down)	Z axis stroke 200: 200mm 400: 400mm	Tool flange No entry: None F: With tool flange	Cable 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.502

RCX240

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

Specify various controller setting items. RCX240/RCX240S ▶ P.489

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 (mm)	600	400	200 / 400	-
Rotation angle (°)	+/-130	+/-150	-	+/-360
AC servo motor output (W)	750	400	400	200
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw
	Transmission method	Direct-coupled		
	Motor to speed reducer	Direct-coupled		
	Speed reducer to output	Direct-coupled		
Repeatability ^{Note 1} (XYZ: mm) (R: °)	+/-0.02		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)	10.6		2.3 / 1.7	920 (wall-mount) 480 (inverse wall-mount)
Maximum payload (kg)	20 (Standard specification), 19 (Option specifications)			
Standard cycle time: with 2kg payload ^{Note 2} (sec)	0.49			
R-axis tolerable moment of inertia ^{Note 3} (kgm ²)	1.0			
User wiring (sq x wires)	0.2 x 20			
User tubing (Outer diameter)	φ6 x 3			
Travel limit	1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length (m)	Standard: 3.5 Option: 5,10			
Weight (kg)	Z axis 200mm: 56 Z axis 400mm: 58			

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.531.
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/>

YK1000XGS

Working envelope of left-handed system

Working envelope of right-handed system

X-axis mechanical stopper position: 132°
Y-axis mechanical stopper position: 152°

Option: Tool flange mount type

YK1000XGS 2200mm Stroke specification

YK1000XGS 2400mm Stroke specification

Note. Inverse type is installed upside down.