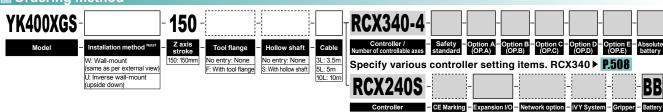
YK400XGS

Arm length 400mm Maximum payload 5kg

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

Wall-mount / inverse type

## Ordering method



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

information.

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.

			X-axis	Y-axis	Z-axis	R-axis
Axis	Arm length		250 mm	150 mm	150 mm	_
specifications Rotation ang		е	+/-125 °	+/-144 °	_	+/-360 °
AC servo motor output			200 W	150 W	50 W	100 W
Deceleration	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
mechanism	Transmission Motor to spood reducer		Dire	Direct-coupled		
illeciialiisiii	method	Speed reducer to output	Direct-coupled			
Repeatability Note 1			+/-0.0	11 mm	+/-0.01 mm	+/-0.004 °
Maximum speed			6.1 n	n/sec	1.1 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 <sup>2</sup>			
User wiring			0.2 sq × 10 wires			
User tubing (Outer diameter)			ф 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			20 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.538.

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

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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

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

YK400XGS D-sub connector for user wiring (No. 1 to 10 usable) D-sub connector for user wiring (No. 1 to 10 usable) 忘 User tubing 2 (\$\phi4\$ red) User tubing 1 (\$\phi4\$ black) ≥(⊕) R400 User tubing 2 (φ4 red) User tubing 3 (\$\phi4\$ blue) R156 User tubing 1 (φ4 black) M4 ground terminal Cross section B-B 38 User tubing 3 (\$\phi4\$ blue) R27 (Min. cable bending Keep enough space for the 136 maintenance work on the top Do not move the cable. 131 face of the base 57 . 47 381 Maximum 410 during 125° If the robot enters the inside of the corner of R205 and dimension 240, the Y-axis and cover may be in contact with the base. So, do not perform such motion **4-φ9** 4-φ9 M8 bolt for installation. Working envelope 4 bolts used X-axis mechanical stopper position: 127° Y-axis mechanical stopper position: 146° x-axis mechanical stopper position: 1
(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. 187.5 ф6Н7 through-hole 148 135 Additional Z-axis lower limit stopper:
Additional Z-axis lower limit 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 6H7 92.5 16.5 46 51 <u>φ27</u> ↓ C 501 Hollow diameter do 11 42 47 ΑV YA S 150 User tool installation range 60 Z-axis upper end mechanical stopper position 4mm rise during Z-axis return-to-origin 4-M3×0.5 through-hole (No phase relation to R-axis origin.)
As this hole is intended for the wiring/tubing clamp, ф16h7<sub>-0.018</sub> ф35 do not attach a large load to it. Cross section A-A Nidth Tapped hole for user wiring 6-M3×0.5 Depth 6 Z-axis lower end mechanical stoppe position The weight of the tool attached here should be added to the tip mass. Hollow diameter: φ11 142+2 **©**' 7.8 20 View of C ⊚. Option: User wiring/tubing through spline type

