

YK400XGS

Wall mount / inverse type

● Arm length 400mm ● Maximum payload 5kg

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

Ordering method

YK400XGS **150** **RCX340-4**

Model	Installation method ^{Note 1}	Z axis stroke	Tool flange	Hollow shaft	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
	W: Wall mount (same as per external view) U: Inverse wall mount (upside down)	150: 150mm	No entry: None F: With tool flange	No entry: None S: With hollow shaft	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ P.678

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

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
	Rotation angle	250 mm	150 mm	150 mm	-
	AC servo motor output	+/-125 °	+/-144 °	-	+/-360 °
	Deceleration mechanism	200 W	150 W	50 W	100 W
	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	+/-0.004 °	
	Maximum speed	6.1 m/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 ²			
	User wiring	0.2 sq x 10 wires			
	User tubing (Outer diameter)	φ 4 x 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note 4. Maximum payload of option specifications (with tool flange attached or with user wiring and tubing routed through spline shaft) is 4kg.

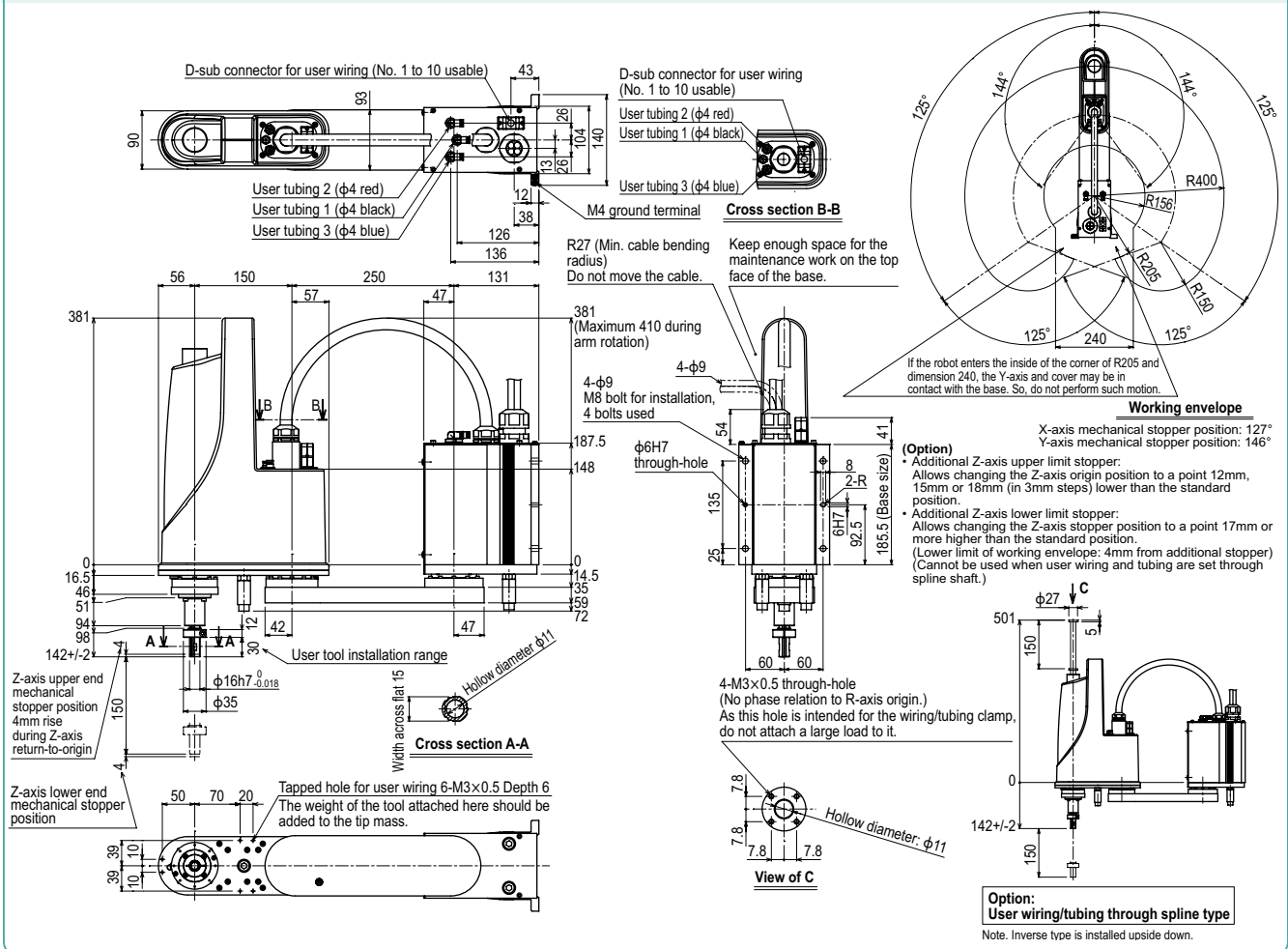
Controller

Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

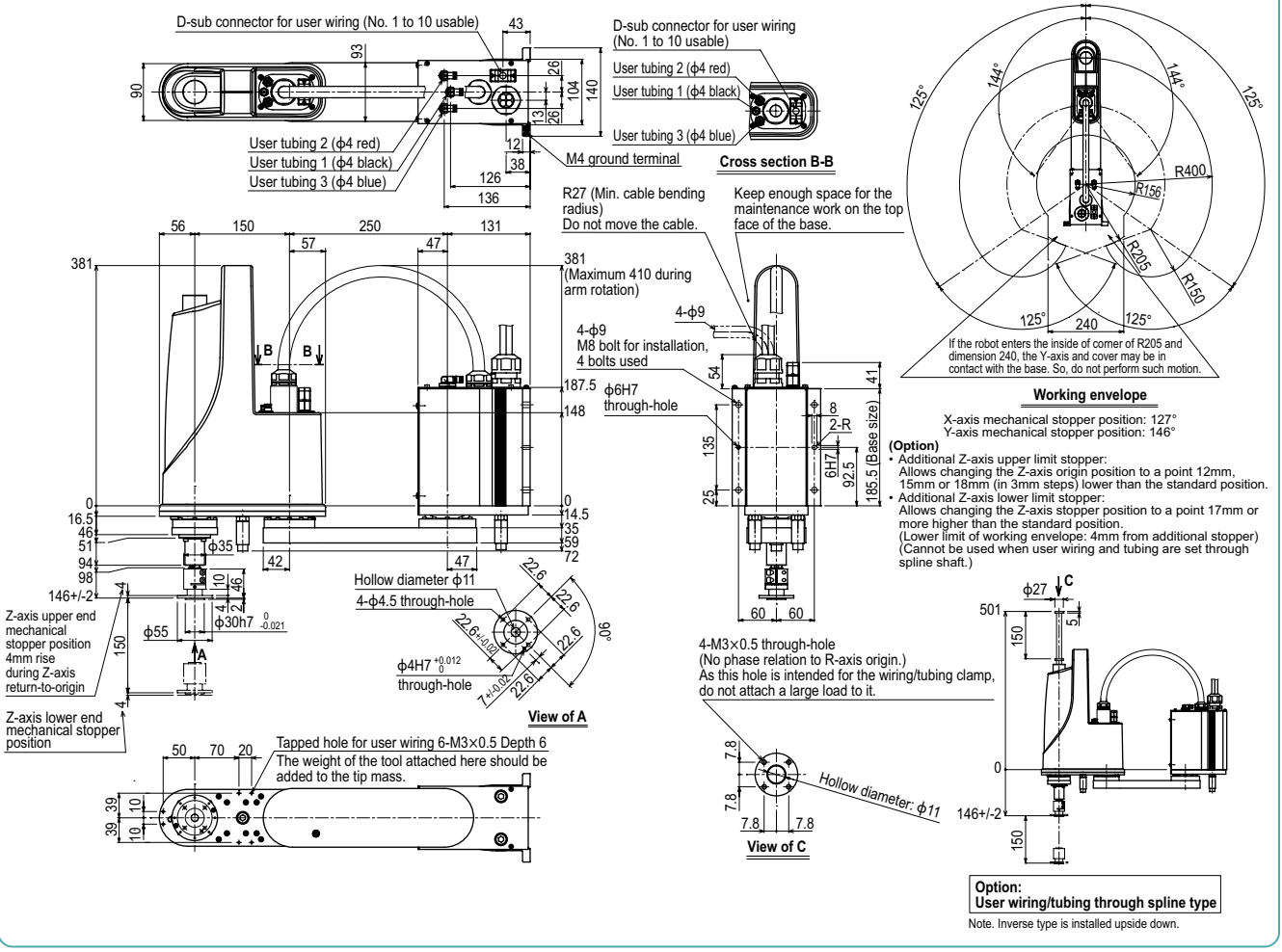
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YK400XGS



YA	Articulated robots
LCM	Linear conveyor modules
CX	Single-axis robots
Robonity	Motor-less single axis actuator
TRANSERO	Compact single-axis robots
FLIP-X	Single-axis robots
PHASER	Linear motor single-axis robots
XY-X	Cartesian robots
YK-X	SCARA robots
YP-X	Pick & place robots
CLEAN	CLEAN
CONTROLLER	CONTROLLER
INFORMATION	INFORMATION
Orbit/Extra small type	Orbit/Extra small type
Small / Medium type	Small / Medium type
Large type	Large type
Wall mount / Inverse type	Wall mount / Inverse type
Dust-proof & drip-proof type	Dust-proof & drip-proof type

YK400XGS Tool flange mount type



YK500XGS

Wall mount / inverse type

- Arm length 500mm
- Maximum payload 10kg

Ordering method

YK500XGS					RCX340-4										
Model	Installation method <small>Note 1</small>	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			
	W: Wall mount (same as per external view) U: Inverse wall mount (upside down)	200: 200mm 300: 300mm	No entry: None F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m									Specify various controller setting items. RCX340 ▶ P.678		

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Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
Rotation angle		200 mm	300 mm	200 mm/300 mm	-
AC servo motor output		+/-105 °	+/-125 °	-	+/-360 °
Deceleration mechanism	Transmission method	400 W	200 W	200 W	200 W
	Motor to speed reducer	Direct-coupled			
	Speed reducer to output	Direct-coupled			
Repeatability <small>Note 1</small>		+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum speed		7.6 m/sec		2.3 m/sec 1.7 m/sec	1700 °/sec (wall mount) 800 °/sec (inverse wall mount)
Maximum payload		10 kg (Standard type), 9 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload <small>Note 2</small>		0.45 sec			
R-axis tolerable moment of inertia <small>Note 3</small>		0.30 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		30 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

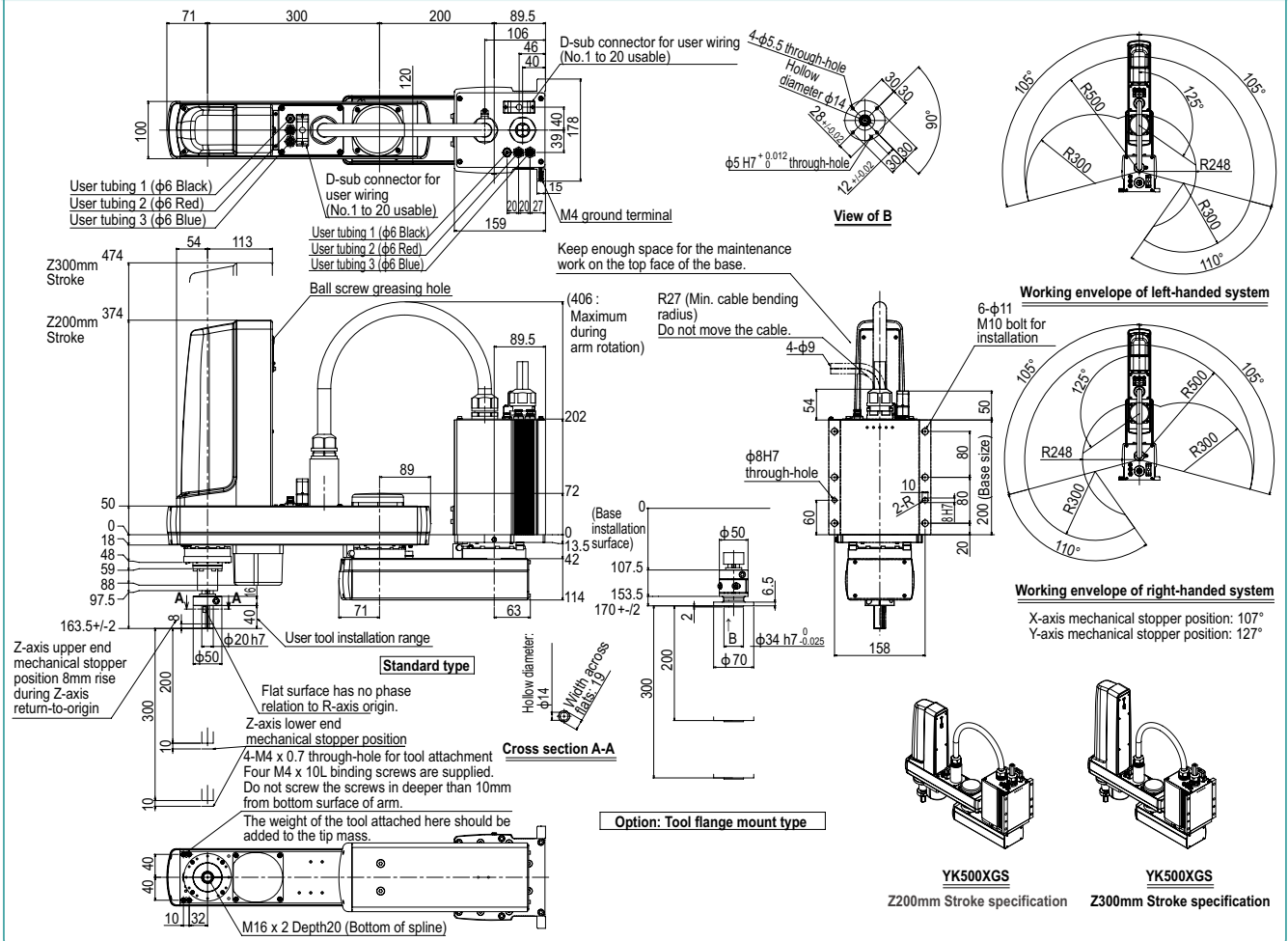
Controller

Controller	Power capacity (VA)	Operation method
RCX340	1700	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.

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YK500XGS



YK800XGS

Wall mount / inverse type

- Arm length 800mm
- Maximum payload 20kg

Ordering method

YK800XGS					RCX340-4										
Model	Installation method <small>Note 1</small>	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			
	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											

Specify various axes controller setting items. RCX340 ▶ **P.678**

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Specifications

Axis specifications	Arm length	X-axis	Y-axis	Z-axis	R-axis
Rotation angle		400 mm	400 mm	200 mm/400 mm	—
AC servo motor output		+/-130 °	+/-145 °	—	+/-360 °
Deceleration mechanism	Transmission method	750 W	400 W	400 W	200 W
	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		9.2 m/sec	2.3 m/sec	1.7 m/sec	920 °/sec (wall mount) 480 °/sec (inverse wall mount)
Maximum payload		20 kg (Standard type), 19 kg (Tool flange mount type)			
Standard cycle time: with 2kg payload <small>Note 2</small>		0.48 sec			
R-axis tolerable moment of inertia <small>Note 3</small>		1.0 kgm ²			
User wiring		0.2 sq x 20 wires			
User tubing (Outer diameter)		φ 6 x 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: 52 kg Z axis 400 mm: 54 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. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

Controller

Controller	Power capacity (VA)	Operation method
RCX340	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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.)
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