

YK250XGP

Dust-proof & drip-proof type

- Arm length 250mm
- Maximum payload 4kg

Ordering method

YK250XGP - 150

S

Cable

RCX340-4

Model
Z axis stroke
150: 150mm

Tool flange
No entry: None
F: With tool flange

Hollow shaft
S: With hollow shaft

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

Controller / Number of controllable axes
RCX240S

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**

RCX240S

Controller

CE Marking

Expansion I/O

Network option

IVY System

Gripper

Battery

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



Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	100 mm	150 mm	150 mm	-
	Rotation angle	+/-129 °	+/-134 °	-	+/-360 °
AC servo motor output (W)		200	150	50	100
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Direct-coupled			
	Motor to speed reducer Speed reducer to output	Direct-coupled			
Repeatability ^{Note 1}		+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum speed		4.5 m/sec		1.1 m/sec	1020 °/sec
Maximum payload		4 kg			
Standard cycle time: with 2kg payload ^{Note 2}		0.57 sec			
R-axis tolerable moment of inertia ^{Note 3}		0.05 kgm ²			
Protection class ^{Note 4}		Equivalent to IP65 (IEC 60529)			
User wiring		0.2 sq × 10 wires			
User tubing (Outer diameter)		φ 4 × 4			
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		21.5 kg			

- Note 1. This is the value at a constant ambient temperature. (X,Y axes)
 Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).
 Note 3. There are limits to acceleration coefficient settings. See P.537.
 Note 4. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

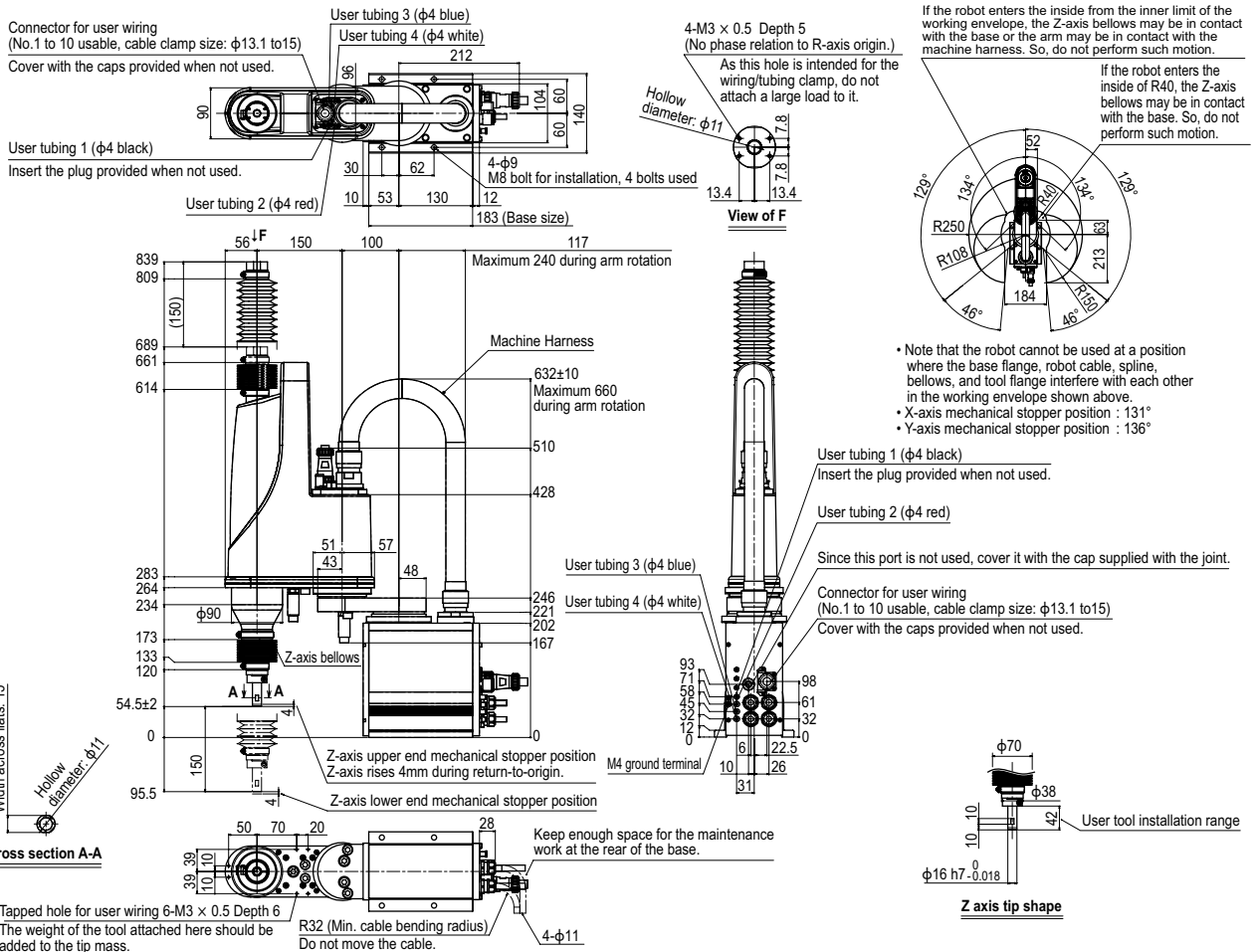
Controller

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 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.
 Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

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

YK250XGP



APPLICATION
 Linear conveyor modules
 LCM100

TRANSEURO
 Compact single-axis robots

FLIP-X
 Single-axis robots

PHASER
 Linear motor single-axis robots

XX-X
 Cartesian robots

YK-X
 SCARA robots

YP-X
 Pick & place robots

CLEAN
 CONTROLLER INFORMATION

Orbit / Tri type

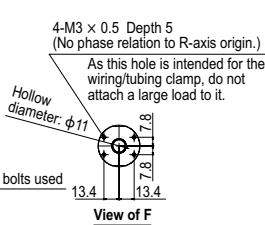
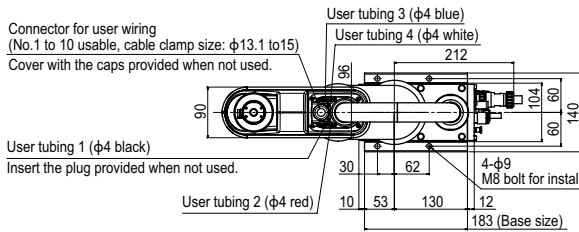
Small / Medium type

Large type

Inverse type

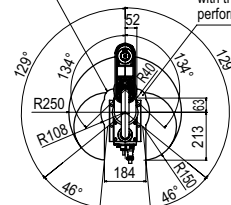
Dust-proof & drip-proof type

YK250XGP Tool flange mount type



If the robot enters the inside from the inner limit of the working envelope, the Z-axis bellows may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion.

If the robot enters the inside of R40, the Z-axis bellows may be in contact with the base. So, do not perform such motion.



- Note that the robot cannot be used at a position where the base flange, robot cable, spline, bellows, and tool flange interfere with each other in the working envelope shown above.
- X-axis mechanical stopper position : 131°
- Y-axis mechanical stopper position : 136°

