

YK600XGHP

Dust-proof & drip-proof type

- Arm length 600mm
- Maximum payload 18kg

Ordering method

YK600XGHP - **F** - **RCX340-4** - **R3** - **BB**

Model **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**

RCX240 **R3** **BB**

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

Specify various controller setting items. RCX340 ▶ P.508

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

Specifications

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	200 mm	400 mm	200 mm / 400 mm	-
	Rotation angle	+/-130 °	+/-150 °	-	+/-360 °
AC servo motor output		750 W	400 W	400 W	200 W
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}	+/-0.02 mm		+/-0.01 mm		+/-0.004 °
Maximum speed		7.7 m/sec	2.3 m/sec / 1.7 m/sec		920 °/sec
Maximum payload		18 kg			
Standard cycle time: with 2kg payload ^{Note 2}		0.57 sec			
R-axis tolerable moment of inertia ^{Note 3}		1.0 kgm ²			
Protection class ^{Note 4}		Equivalent to IP65 (IEC 60529)			
User wiring (sq × wires)		0.2 × 20			
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		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 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).
 Note 3. There are limits to acceleration coefficient settings. See P.539.
 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

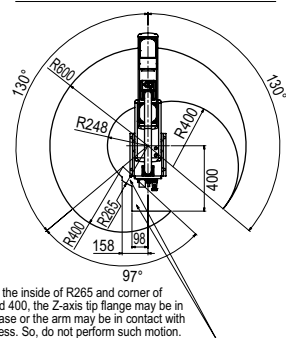
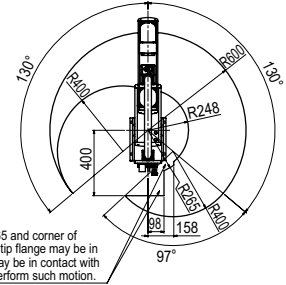
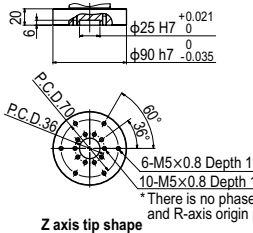
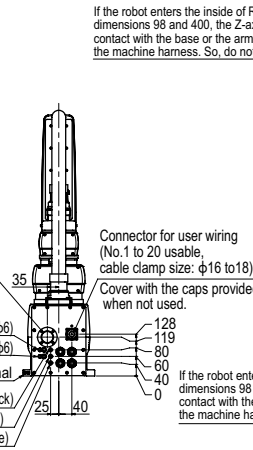
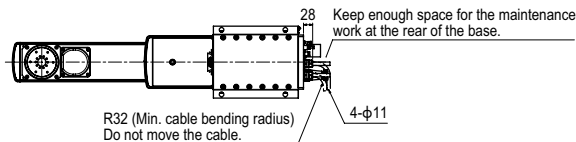
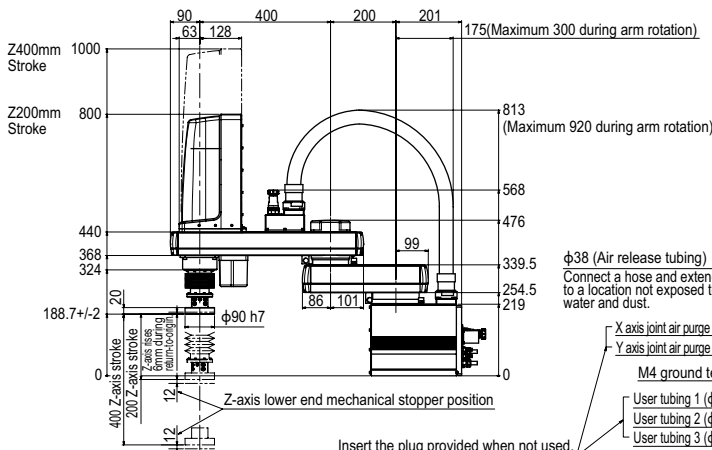
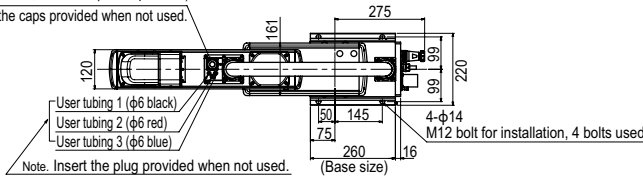
Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R3	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

- 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.
 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/>

YK600XGHP

Connector for user wiring (No.1 to 20 usable, cable clamp size: φ16 to 18)
 Cover with the caps provided when not used.



- Note that the robot cannot be used at a position where the base flange, robot cable, spline, and bellows interfere with each other in the working envelope shown above.
 • X-axis mechanical stopper position : 132°
 • Y-axis mechanical stopper position : 152°

APPLICATION
 Linear conveyor / modules
 LCM100
 Compact single-axis robots
 TRANSERVO
 Single-axis robots
 FLIP-X
 Linear motor single-axis robots
 PHASER
 Cartesian robots
 X-X
 SCA RA robots
 YK-X
 Pick & place robots
 YP-X
 CLEAN
 CONTROLLER INFORMATION
 Orbit / Tray type
 Small / Medium type
 Large type
 Walk-mount / Inverse type
 Dust-proof & drip-proof type