YK600XGHP

Dust-proof & drip-proof type

- Arm length 600mm
- Maximum payload 18kg

Ordering method

YK600XGHP -		F	-		RCX240	-		R3	-		-		-		-		-	BB
Model	Z axis stroke	Tool flange	Cable	Controller	Usable for CE		Regenerative unit	Expansion I/O Note 1		Network option		iVY System		Gripper		Battery
	200: 200mm 400: 400mm	F: With tool flange	3L: 3.5m 5L: 5m 10L: 10m		No entry: Standard E: CE marking		R3: RGU-3	N, P: Standard I/O 16/8 N1, P1: 40/24 N2, P2: 64/40 N3, P3: 88/56 N4, P4: 112/72		No entry: None CC: CC-Link DN: DeviceNet PB: Profibus EN: EtherNet EP: EtherNet/IP YC: YC-Link Note 2		No entry: None VY: iVY (Vision) TR: iVY+Light +Tracking LC: iVY+Light		No entry: None GR: Gripper		BB: 4 pcs

Note 1. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.
Note 2. Available only for the master.

Specifications

			X-axis	Y-axis	Z-axis		R-axis
Axis specifications	Arm length (mm)		200	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		Harmonic drive
	Transmission method	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)			7.7		2.3	1.7	920
Maximum payload (kg)			18				
Standard cycle time: with 2kg payload Note 2 (sec)			0.57				
R-axis tolerable moment of inertia Note 3 (kgm²)			1.0				
Protection class Note 4			Equivalent to IP65 (IEC 60529)				
User wiring (sq × wires)			0.2×20				
User tubing (Outer diameter)			ϕ6×3				
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: 52 Z axis 400mm: 54				

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.
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
RCX240-R3	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.) 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://www.yamaha-motor.co.jp/global/industrial/robot/

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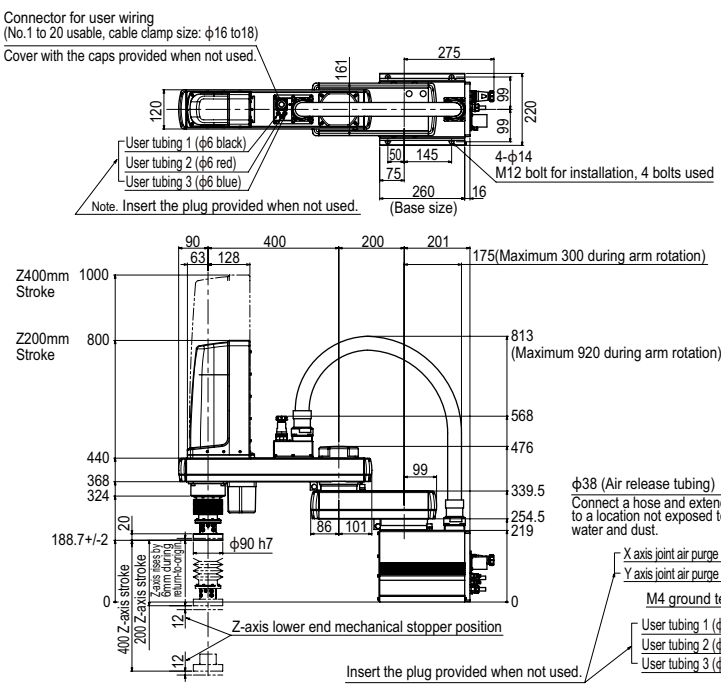
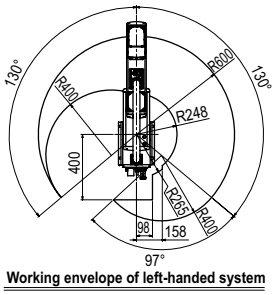
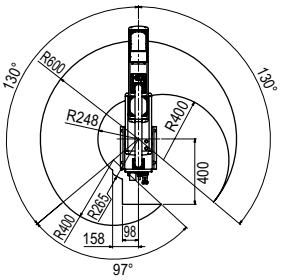


Z axis tip shape



Working envelope of left-handed system



Working envelope of right-handed system

- 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°