

# YK1000XG

Standard type: Medium type

● Arm length 1000mm

● Maximum payload 20kg

## Ordering method

YK1000XG			RCX240		R3			BB
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<b>Controller</b>	<b>Usable for CE</b>	<b>Regenerative unit</b>	<b>Expansion I/O</b> <small>Note 1</small>	<b>Network option</b>	<b>Battery</b>
	200: 200mm 400: 400mm	BL: 3.5m (Standard) 5L: 5m 10L: 10m		No entry: Standard E: CE marking	R3: RGU-3	N: P: Standard I/O 16bit 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 YC: YC-Link	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
<b>Axis specifications</b>	Arm length (mm)	600	400	200	400	-
	Rotation angle (°)	+/-130	+/-150	-		+/-360
<b>AC servo motor output (W)</b>		750	400	400		200
<b>Deceleration mechanism</b>	Speed reducer	Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method	Direct-coupled				
	Motor to speed reducer	Direct-coupled				
	Speed reducer to output	Direct-coupled				
<b>Repeatability</b> <small>Note 1</small> (XYZ: mm) (R: °)		+/-0.02		+/-0.01		+/-0.004
<b>Maximum speed</b> (XYZ: m/sec) (R: °/sec)		10.6		2.3		1.7
<b>Maximum payload (kg)</b>		20				
<b>Standard cycle time: with 2kg payload</b> <small>Note 2</small> (sec)		0.49				
<b>R-axis tolerable moment of inertia</b> <small>Note 3</small> (kgm <sup>2</sup> )		1.0				
<b>User wiring (sq x wires)</b>		0.2 x 20				
<b>User tubing (Outer diameter)</b>		φ6 x 3				
<b>Travel limit</b>		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)				
<b>Robot cable length (m)</b>		Standard: 3.5 Option: 5,10				
<b>Weight (kg) (Excluding robot cable)</b>		Z axis200mm: 56 Z axis400mm: 58				

## Controller

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

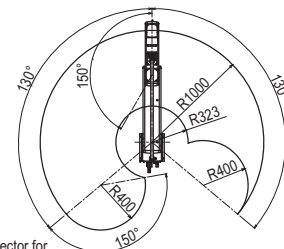
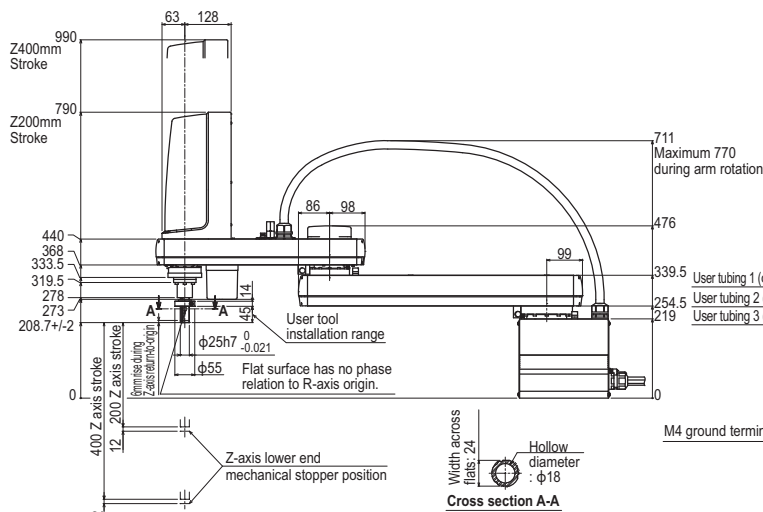
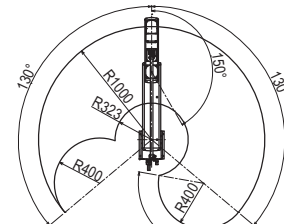
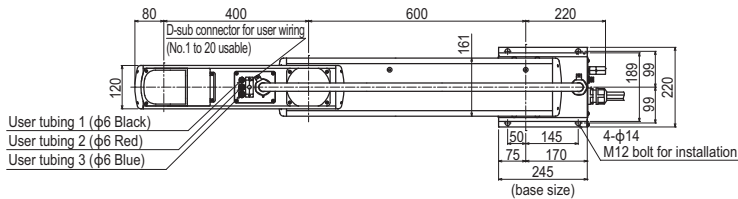
Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.

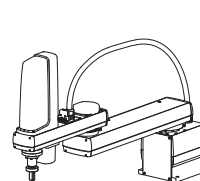
Note 3. There are limits to acceleration coefficient settings.

Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

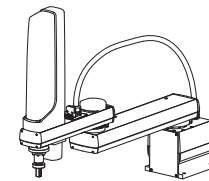
## YK1000XG



X-axis mechanical stopper position: 132°  
Y-axis mechanical stopper position: 152°



YK1000XG  
Z200mm Stroke specification



YK1000XG  
Z400mm Stroke specification