

# YK1000XG

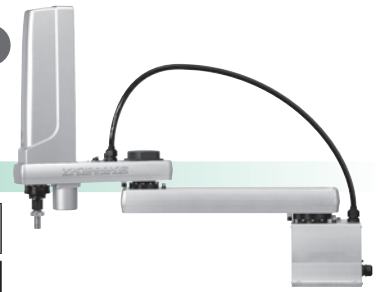
Standard type: Medium type

- Arm length 1000mm
- Maximum payload 20kg

## Ordering method

<b>YK1000XG</b>			<b>RCX240</b>		<b>R3</b>			<b>BB</b>
<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	3L: 3.5m (Standard) 5L: 5m 10L: 10m		No entry: Standard E: CE marking	R3: RGU-3	<small>Note 1</small> 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 YC: YC-Link <small>Note 2</small>	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	920
<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 axis 200mm: 56 Z axis 400mm: 58			

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. See P.433.  
Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

## Controller

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

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