

# YK600XGH

Standard type: Medium type

● Arm length 600mm

● Maximum payload 20kg



## Ordering method

YK600XGH			RCX240		R3			BB
Model	Z axis stroke 200: 200mm 400: 400mm	Cable length SL: 3.5m (Standard) 5L: 5m 10L: 10m	Controller	Usable for CE No entry: Standard E: CE marking	Regenerative unit R3: RGU-3	Expansion I/O <sup>Note 1</sup> N, P: Standard I/O 16/8 N1, P1: 40/24 N2, P2: 64/40 N3, P3: 88/56 N4, P4: 112/72	Network option No entry: None CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet YC: YC-Link	Battery 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 <sup>Note 1</sup> (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)		20				
Standard cycle time: with 2kg payload <sup>Note 2</sup> (sec)		0.47				
R-axis tolerable moment of inertia <sup>Note 3</sup> (kgm <sup>2</sup> )		1.0				
User wiring (sq x wires)		0.2 x 20				
User tubing (Outer diameter)		φ6 x 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) (Excluding robot cable)		Z axis 200mm: 48 Z axis 400mm: 50				

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 4. 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 (BCD) / Remote command / Operation using RS-232C communication

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