

# YK700XG

Standard type: Medium type

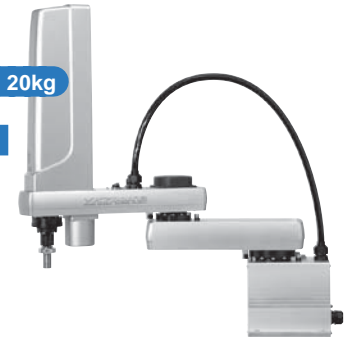
● Arm length 700mm

● Maximum payload 20kg

## Ordering method

YK700XG			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	3L: 3.5m (Standard) 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 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

Axis specifications	X-axis		Y-axis		Z-axis		R-axis
	Arm length (mm)	300	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	Direct-coupled					
	Motor to speed reducer	Direct-coupled					
	Speed reducer to output	Direct-coupled					
Repeatability <small>Note 1</small> (XYZ: mm) (R: °)	+/-0.02		+/-0.01		+/-0.004		
Maximum speed (XYZ: m/sec) (R: °/sec)	8.4		2.3		1.7		920
Maximum payload (kg)	20						
Standard cycle time: with 2kg payload <small>Note 2</small> (sec)	0.42						
R-axis tolerable moment of inertia <small>Note 3</small> (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 axis200mm: 50		Z axis400mm: 52				

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.

## 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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