

# YK220X

Standard type: Small type

● Arm length 220mm ● Maximum payload 1kg



## Ordering method

YK220X	-	100	-	RCX240	-	-	-	BB
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<b>Controller</b>	<b>Usable for CE</b>	<b>Expansion I/O</b> <small>Note 1</small>	<b>Network option</b>	<b>Battery</b>	
	100: 100mm	3L: 3.5m (Standard) 5L: 5m 10L: 10m		No entry: Standard E: CE marking	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

		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length (mm)	111	109	100	-
	Rotation angle (°)	+/-120	+/-140	-	+/-360
AC servo motor output (W)		50	30	30	30
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw
	Transmission method	Motor to speed reducer	Direct-coupled		
		Speed reducer to output	Direct-coupled		
Repeatability <small>Note 1</small> (XYZ: mm) (R: °)		+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		3.4		0.7	1700
Maximum payload (kg)				1.0	
Standard cycle time: with 0.1kg payload <small>Note 2</small> (sec)				0.42	
R-axis tolerable moment of inertia <small>Note 3</small> (kgm <sup>2</sup> )				0.01	
User wiring (sq × wires)				0.1 × 6	
User tubing (Outer diameter)				φ3 × 2	
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) <small>Note 4</small>		5.5			
Robot cable weight		1.5kg (3.5m)	2.1kg (5m)	4.2kg (10m)	

Note 1. This is the value at a constant ambient temperature.  
Note 2. When reciprocating 100mm in horizontal and 25mm in vertical directions.  
Note 3. There are limits to acceleration coefficient settings.  
Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

## Controller

Controller	Power capacity (VA)	Operation method
RCX240	500	Programming / I/O point trace (BCD) / Remote command / Operation using RS-232C communication

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