

Standard type: Tiny type

Arm length 220mm
Maximum payload 1kg

■ Ordering method

YK220X-100

Z axis stroke

Cable length

RCX240

Controller

Usable for CE

1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)

Expansion I/O

BB

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	Arm length (mm)		111	109	100	-				
specifications	Rotation angle (°)		+/-120	+/-140	-	+/-360				
AC servo motor output (W)		50	30	30	30					
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Harmonic dr				
	Transmission method	Motor to speed reducer	Direct-coupled							
		Speed reducer to output	Direct-coupled							
Repeatability Note 1 (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 avalatime with 0 1kg payload Note 2 (aga)			0.42							

Rotation angle (*)			+/-120	+/-140	_	+/-360	
AC servo motor output (W)			50	30	30	30	
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 Note 1 (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 Note 2 (sec)			0.42				
R-axis tolerable moment of inertia Note 3 (kgm²)			0 01				
User wiring (sq × wires)			0.1 × 6				
User tubing (Outer diameter)			ф3 × 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) Note 4			5.5				

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

Robot cable weight

YK220X

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. See P.430.

Note 4. The total robot weight is the sum of the robot body weight and the cable weight.

Connector for user wiring (No. 1 to 6 usable, socket contact)
J.S.T. Mfg Co., Ltd. SM connector
SMR-6VB, pin SYM-0017-P0.6 (supplied)
Use the YC12 crimping machine. 臣 R75.7 10.1 4-φ7 M6 bolt used for installation Working envelope Do not attach any wire or tube to self-supporting cable. Doing so may degrade positioning accuracy. X-axis origin is at 0°±5° with respect to front of robot base If attaching wire or tube, make use of these air tubes. For details, refer to "10 When attaching a new user wire or tube" in Chapter 3. 111 45 463.5 return-to-origin 420 (During arm rotation 425) 30 (Maximum 120 during arm rotation) during 315 User tubing 2 (φ3) 5mm c 8 X, Y-axis origin position User tubing 1 (φ3) ΑŢ When performing return-to-origin, move the axes counterclockwise in advance from the 203 Cross section A-A position shown above. User tubing 2 (φ3) 173 163.5 . Us<u>er tubing 1 (φ3)</u> 47 100+/-2 109.5 M3 ground terminal (Z-axis origin position Connector for user wiring (No. 1 to 6 usable, socket contact) 55 50 25 8 Z axis stroke 9 J.S.T. Mfg Co., Ltd. SM connector SMR-6VB, pin SYM-001T-P0.6 (supplied) Use the YC12 crimping machine. ф26 11 15 No phase relation between flat spot and R-axis origin 74 User tool installation range For user tool installation 4-M4 x 0.7 Depth6 φ10h7 _{-0.015} Hollow diameter ര് 🌡

Details of B