

YK180XC

- Arm length 180mm
- Maximum payload 1kg

Ordering method

YK180XC - 100		RCX240				BB	
Model	Z axis stroke 100: 100mm	Cable length 3L: 3.5m (Standard) 5L: 5m 10L: 10m	Controller	Usable for CE No entry: Standard E: CE marking	Expansion I/O ^{Note 1} 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 ^{Note 2}	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.

Basic specifications

	X axis	Y axis	Z axis	R axis
Axis specifications				
Arm length (mm)	71	109	100	-
Rotation angle (°)	+/-120	+/-140	-	+/-360
AC servo motor output (W)	50	30	30	30
Repeatability ^{Note 1} (XYZ mm) (R)	+/-0.01		+/-0.01	+/-0.004
Maximum speed (XYZ m/sec) (R /sec)	3.3		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} (kgm ²)	0.01			
User wiring (sq x wires)	0.1 x 8			
User tubing (Outer diameter)	φ3 x 2			
Travel limit	1.Soft limit, 2.Mechanical limit (X, Y, Zaxis)			
Robot cable length (m)	Standard: 3.5 Option: 5, 10			
Weight (kg) (Excluding robot cable) ^{Note 4}	6.5			
Robot cable weight	1.5kg (3.5m) 2.1kg (5m) 4.2kg (10m)			
Degree of cleanliness	CLASS 10 (0.1 μm base)			
Intake air (Nℓ/min)	30			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
Note 2. When moving 25mm in vertical direction and 100mm in horizontal direction reciprocally.
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 / Remote command / Operation using RS-232C communication

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