

YK220XC

Clean type: Extra small type

Note. Built-to-order product. Contact us for the delivery period.

- Arm length 220mm
- Maximum payload 1kg

Ordering method

YK220XC - 100 RCX340-4

Model	Z axis stroke	Cable length	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery
	100: 100mm	3L: 3.5m 5L: 5m 10L: 10m								

Specify various controller setting items. RCX340 ▶ **P.636**

Basic 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
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)				0.45	
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 stopper (X, Y, Z axes)			
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.
 Note 2. When reciprocating 100mm in horizontal and 25mm in vertical directions.
 Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia 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
RCX340	500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

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Right-hand side system operation range **Left-hand side system operation range**

If the robot enters the inside of R30, the Z-axis flange may be in contact with the base. So, do not perform such motion.

Z-axis flange is in contact with the base in an area inside from the inner limit of this working envelope. So, do not perform any motion in this area.

Details of A
 12: User tool installation area
 φ55
 φ30h7-0.021
 Cover
 After returning to origin position of Z axis, rise by 5mm
 106+/-2 (Z-axis stroke)
 100Z axis stroke
 Z-axis flange

Details of B
 4-M3 x 0.5 Depth 6
 User tool installation tap
 16 24
 5.3 5.3
 φ10H7 +0.015 Depth 2
 4-M3 x 0.5 Depth 6
 Keep enough space for the maintenance work at the rear of the base.
 R27 (Min. cable bending radius)
 Do not move the cable.
 M3 grounding terminal
 X axis origin point is 0°+/-5° from the base front surface
 133°+/-5°
X-axis and Y-axis origin positions
 Move counterclockwise in advance from the above position when performing origin return.

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