YK120XG

Standard type: Extra small type

- Arm length 120mm
- Maximum payload 1kg

Ordering method

YK120XG - 50 -		- RCX340-4 -							
Model	Z axis stroke 50: 50mm	Cable 2L: 2m 3L: 3.5m 5L: 5m 10L: 10m	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

Specify various controller setting items. RCX340 ▶ P.566

Specifications

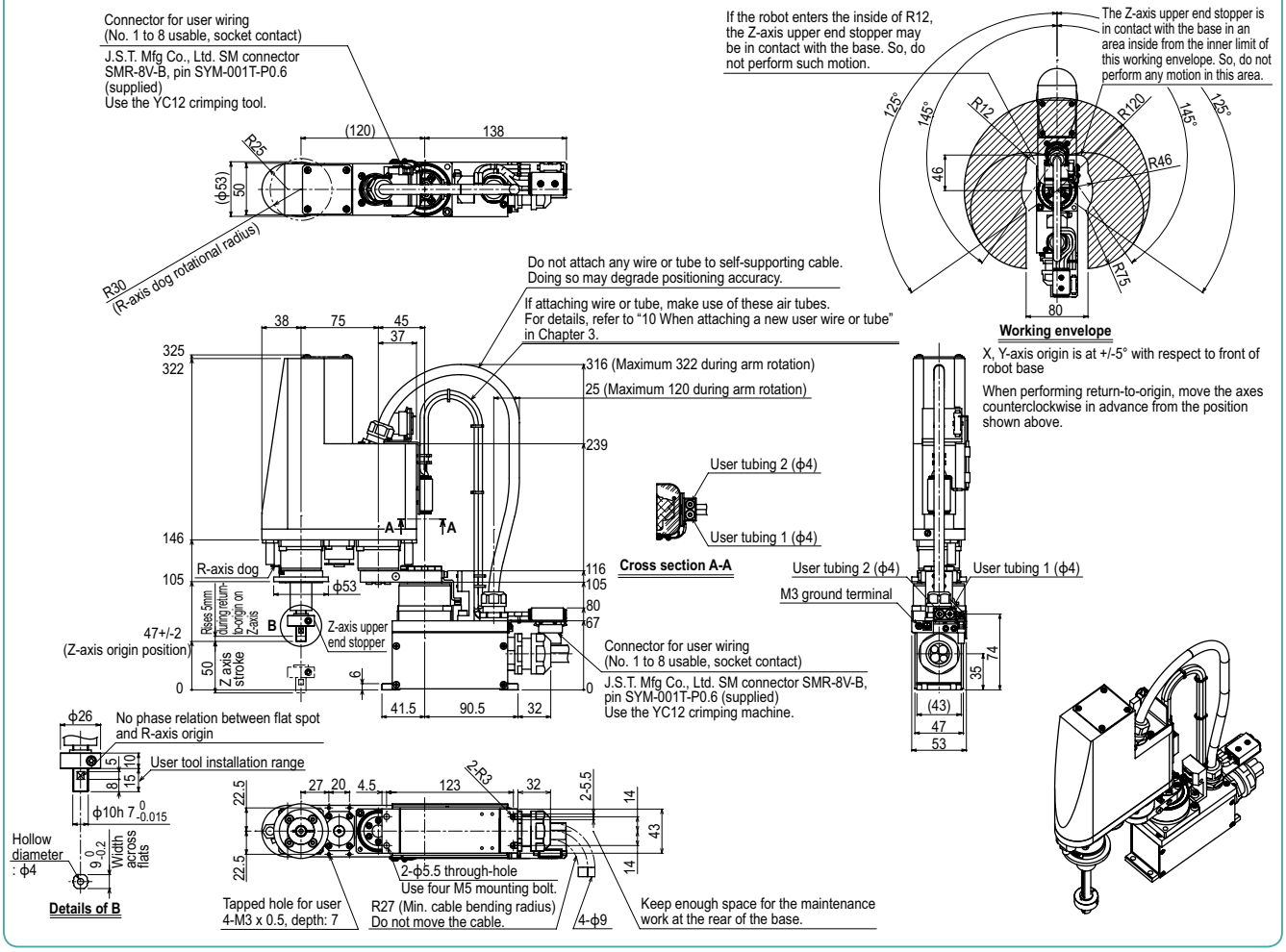
			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		45 mm	75 mm	50 mm	–
	Rotation angle		+/-125 °	+/-145 °	–	+/-360 °
AC servo motor output			30 W	30 W	30 W	30 W
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled			
		Speed reducer to output	Direct-coupled			
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.004 °
Maximum speed			3.3 m/sec		0.9 m/sec	1700 °/sec
Maximum payload			1.0 kg			
Standard cycle time: with 0.1kg payload Note 2			0.33 sec			
R-axis tolerable moment of inertia Note 3			0.01 kgm^2			
User wiring			0.1 sq × 8 wires			
User tubing (Outer diameter)			ϕ 4 × 2			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length			Standard: 2 m Option: 3.5 m, 5 m, 10 m			
Weight (Excluding robot cable) Note 4			3.9 kg			
Robot cable weight			0.9 kg (2 m) 1.5 kg (3.5 m) 2.1 kg (5 m) 4.2 kg (10 m)			

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. 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	300	Programming / I/O point trace / Remote command / Operation using RS-232C communication

Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
https://global.yamaha-motor.com/business/robot/

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