

YK120XG

Arm length 120mm Maximum payload 1kg

Ordering method

YK120XG - 50 **RCX240** **BB**

Model	Z axis stroke	Cable length	Controller	Usable for CE	Expansion I/O	Network option	Battery
		2L : 2m (Standard) 3L : 3.5m 5L : 5m 10L : 10m		No entry : Standard E : CE specification	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

Note1. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.
Note2. Available only for the master.

Basic specifications

Axis specifications	Arm length (m)	X axis	Y axis	Z axis	R axis
	Rotation range (°)	+/-125	+/-145	—	+/-360
	AC servo motor output (W)	30	30	30	30
	Repeatability (XYZ : mm) (R : °)	+/-0.005		+/-0.01	+/-0.004
	Maximum speed (XYZ : m/sec) (R : /sec)	3.3		0.9	1700
	Maximum payload (kg)	1.0			
	Standard cycle time : with 0.1kg payload (sec)	0.33			
	R axis allowable moment inertia (kgfcm ²)	0.1			
	User wiring (sq x pcs)	0.1 x 8			
	User tubing (Outer diameter)	φ4 x 2			
	Movement limit setting	1.Soft limit 2.Mechanical limit (X, Y, Z axes)			
	Robot cable length (m)	Standard : 2 Option : 3.5, 5, 10			
	Weight (kg) (Robot cable not included)	3.9			
	Robot cable weight	0.9kg (2m)	1.5kg (3.5m)	2.1kg (5m)	4.2kg (10m)

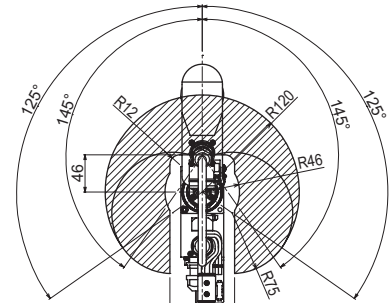
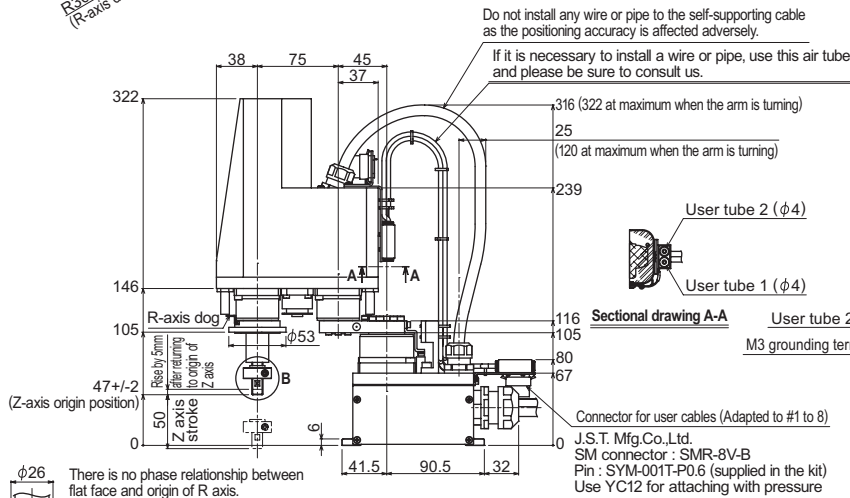
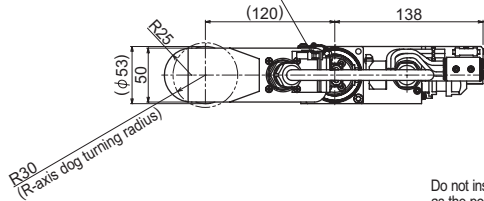
Note1. This is the value at a constant ambient temperature. (X, Y axes)
Note2. When moving 25mm in vertical direction and 100mm in horizontal direction reciprocally.
Note3. There are limits to the setting of the acceleration coefficient.
Note4. The overall weight of the robot is the total of the robot itself and the robot cable.

Controller

Controller	Power consumption (VA)	Operating method
RCX240	300	Operation by program / communication command

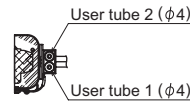
YK120XG

Connector for user cables (Adapted to #1 to 8)
J.S.T. Mfg. Co., Ltd.
SM connector : SMR-8V-B
Pin : SYM-001T-P0.6 (supplied in the kit)
Use YC12 for attaching with pressure



Operation range

Origins of X and Y axes are within +/-5° of the base front face. To execute the return to origin function, move the unit from the above position to the counterclockwise turning position in advance.



Sectional drawing A-A

User tube 2 (φ4)
User tube 1 (φ4)

User tube 2 (φ4)
User tube 1 (φ4)

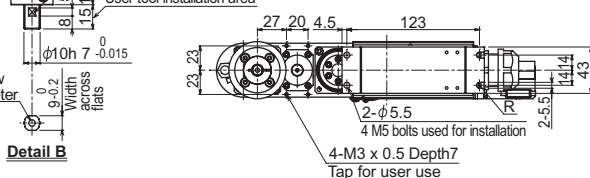
M3 grounding terminal

35 74

(43)
47
53

There is no phase relationship between flat face and origin of R axis.

User tool installation area



Detail B

