

# YK180XG

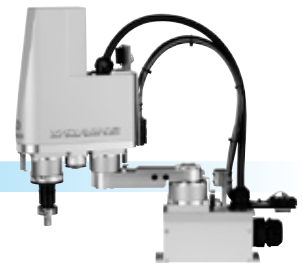
Arm length 180mm Maximum payload 1kg

## Ordering method

**YK180XG - 50** - **RCX240** - **BB**

<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<b>Controller</b>	<b>Usable for CE</b>	<b>Expansion I/O Note 1</b>	<b>Network option</b>	<b>Battery</b>
		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 Note 2	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	X axis	Y axis	Z axis	R axis
<b>Arm length (m)</b>	105	75	50	—
<b>Rotation range (°)</b>	+/-125	+/-145	—	+/-360
<b>AC servo motor output (W)</b>	30	30	30	30
<b>Repeatability Note 1 (XYZ : mm) (R : °)</b>	+/-0.005		+/-0.01	+/-0.004
<b>Maximum speed (XYZ : m/sec) (R : ° / sec)</b>	3.3		0.9	1700
<b>Maximum payload (kg)</b>	1.0			
<b>Standard cycle time : with 0.1kg payload Note 2 (sec)</b>	0.33			
<b>R axis allowable moment inertia Note 3 (kgfcm<sup>2</sup>)</b>	0.1			
<b>User wiring (sq x pcs)</b>	0.1 x 8			
<b>User tubing (Outer diameter)</b>	φ4 x 2			
<b>Movement limit setting</b>	1.Soft limit 2.Mechanical limit (X, Y, Z axes)			
<b>Robot cable length (m)</b>	Standard : 2 Option : 3.5, 5, 10			
<b>Weight (kg) (Robot cable not included) Note 4</b>	4.1			
<b>Robot cable weight</b>	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	500	Operation by program / communication command

## YK180XG

Connector for user cables (Adapted to #1 to 8)  
J.S.T. Mfg.Co.,Ltd.  
SM connector : SMR-8V-B  
Use YC12 for attaching with pressure

