

# YK900XG

Standard type: Medium type

- Arm length 900mm
- Maximum payload 20kg

## Ordering method

<b>YK900XG</b>			<b>RCX240</b>		<b>R3</b>			<b>BB</b>
<b>Model</b>	<b>Z axis stroke</b>	<b>Cable length</b>	<b>Controller</b>	<b>Usable for CE</b>	<b>Regenerative unit</b>	<b>Expansion I/O</b> <small>Note 1</small>	<b>Network option</b>	<b>Battery</b>
	200: 200mm 400: 400mm	3L: 3.5m (Standard) 5L: 5m 10L: 10m		No entry: Standard E: CE marking	R3: RGU-3	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 <sup>TM,6,2</sup>	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.

## Specifications

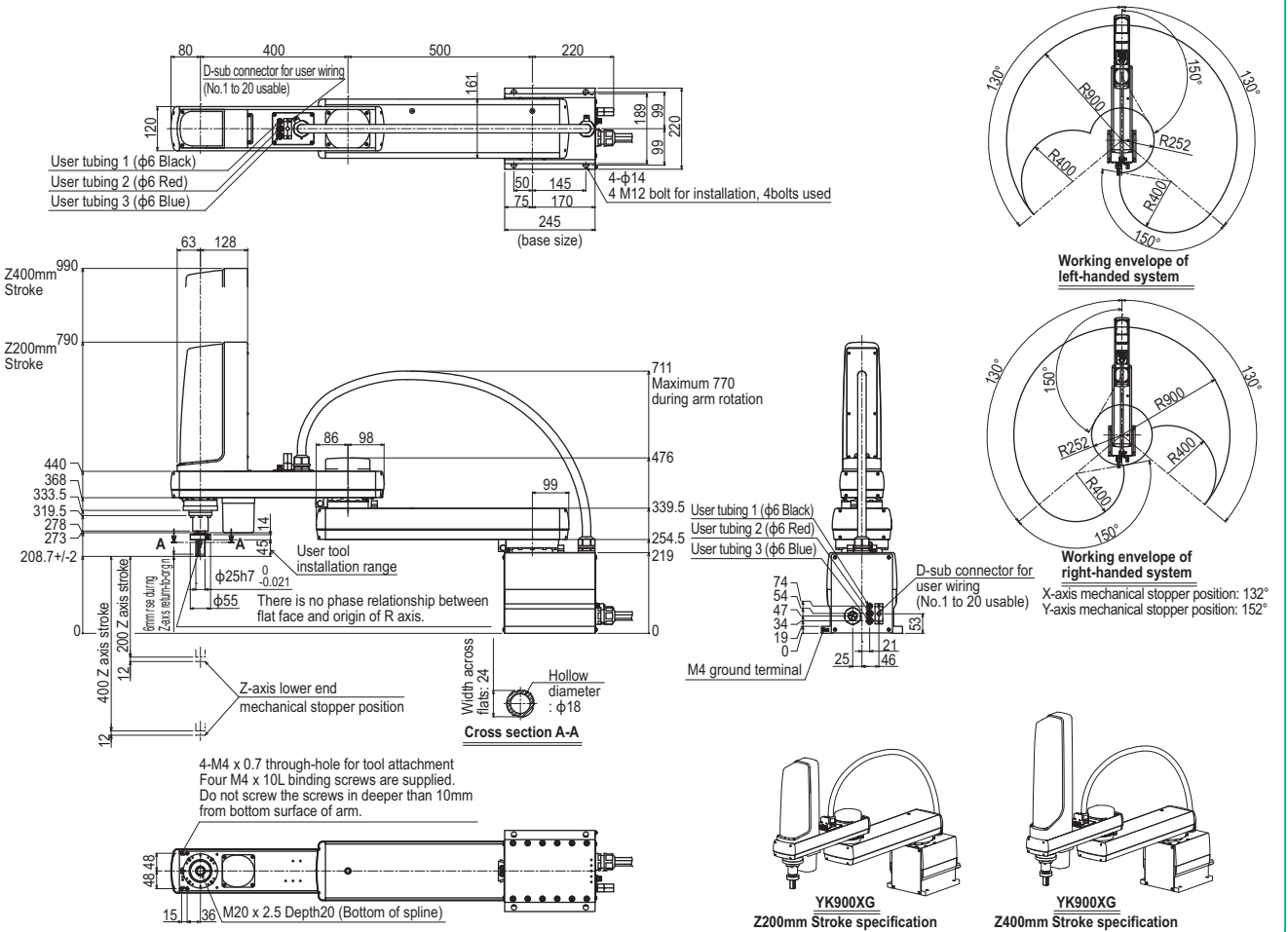
		X-axis	Y-axis	Z-axis	R-axis
<b>Axis specifications</b>	<b>Arm length (mm)</b>	500	400	200 400	-
	<b>Rotation angle (°)</b>	+/-130	+/-150	-	+/-360
<b>AC servo motor output (W)</b>		750	400	400	200
<b>Deceleration mechanism</b>	<b>Speed reducer</b>	Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	<b>Transmission method</b>	Direct-coupled			
	<b>Motor to speed reducer</b> <b>Speed reducer to output</b>	Direct-coupled			
<b>Repeatability</b> <sup>Note 1</sup> (XYZ mm) (R °)	+/-0.02		+/-0.01	+/-0.004	
<b>Maximum speed (XYZ mm/sec) (R °/sec)</b>		9.9		2.3 1.7	920
<b>Maximum payload (kg)</b>		20			
<b>Standard cycle time with 2kg payload</b> <sup>Note 2</sup> (sec)		0.49			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup> (kgm <sup>2</sup> )		1.0			
<b>User wiring (sq × wires)</b>		0.2 × 20			
<b>User tubing (Outer diameter)</b>		φ6 × 3			
<b>Travel limit</b>		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
<b>Robot cable length (m)</b>		Standard: 3.5 Option: 5,10			
<b>Weight (kg) (Excluding robot cable)</b>		Z axis200mm: 54 Z axis400mm: 56			

Note 1. This is the value at a constant ambient temperature. (X,Y axes)  
Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions.  
Note 3. There are limits to acceleration coefficient settings. See P.433.  
Note. Please consult YAMAHA when connecting other tubes and cables to the self-supporting machine harness.

## Controller

Controller	Power capacity (VA)	Operation method
RCX240-R3	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

## YK900XG



- APPLICATION
- TRANSERVO  
Compact  
single-axis robots
- FLIP-X  
Single-axis robots
- PHASER  
Linear motor  
single-axis robots
- XY-X  
Cartesian  
robots
- YK-XG  
SCARA  
robots
- YP-X  
Pick & place  
robots
- CLEAN
- CONTROLLER INFORMATION
- Trimy
- Small type
- Medium type
- Large type
- Ceiling-mount / Inverse type
- Dust-proof & drip-proof type