

YK1000XGS

Wall-mount / inverse type

- Arm length 1000mm
- Maximum payload 20kg

Ordering method

YK1000XGS				RCX240		R3				BB
Model	Installation method Note 1 W: Wall-mount (same as per external view) U: Inverse wall-mount (upside down)	Z axis stroke 200: 200mm 400: 400mm	Cable 3L: 3.5m 5L: 5m 10L: 10m	Controller	Usable for CE marking No entry: Standard E: CE marking	Regenerative unit R3: RGU-3	Expansion I/O Note 2 N, P: Standard I/O 16/8 N1, P1: 40/24 N2, P2: 64/40 N3, P3: 88/56 N4, P4: 112/72	Network option No entry: None CC: CC-Link DN: DeviceNet PB: Profibus EN: Ethernet YC: YC-Link Note 3	iVY System No entry: None VY: iVY (Vision) TR: iVY+Light +iTracking LC: iVY+Light	Battery BB: 4 pcs

- Note 1. When installing the robot, always follow the specifications.
Do not install the ceiling-mount robot upside down or do not install the inverse type robot to a ceiling.
Incorrect installation can cause trouble or malfunction.
- Note 2. Use N to N4 when NPN is selected on the I/O board, and P to P4 when PNP is selected.
- Note 3. Available only for the master.

Specifications

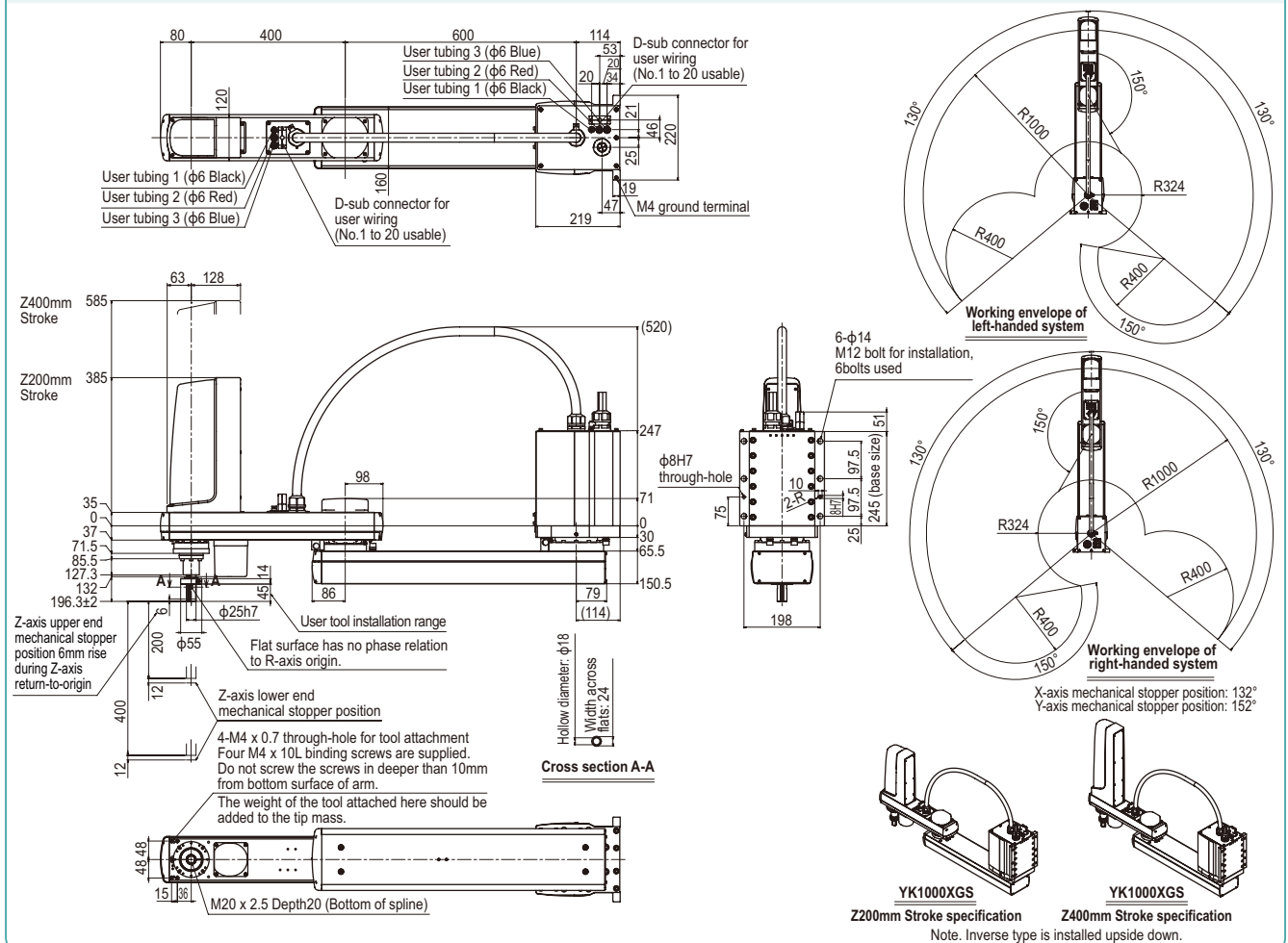
		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length (mm)	600	400	200 400	-
	Rotation angle (°)	+/-130	+/-150	-	+/-360
AC servo motor output (W)		750	400	400	200
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw	Harmonic drive
	Transmission method	Direct-coupled			
	Motor to speed reducer	Direct-coupled			
Speed reducer to output		Direct-coupled			
Repeatability Note 1 (XYZ: mm) (R: °)		+/-0.02		+/-0.01	+/-0.004
Maximum speed (XYZ: m/sec) (R: °/sec)		10.6		2.3 1.7	920 (wall-mount) 480 (inverse wall-mount)
Maximum payload (kg)		20			
Standard cycle time: with 2kg payload Note 2 (sec)		0.49			
R-axis tolerable moment of inertia Note 3 (kgm ²)		1.0			
User wiring (sq x wires)		0.2 x 20			
User tubing (Outer diameter)		φ6 x 3			
Travel limit		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length (m)		Standard: 3.5 Option: 5,10			
Weight (kg)		Z axis200mm: 56 Z axis400mm: 58			

- 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.
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

YK1000XGS



YK1000XGS
Z200mm Stroke specification

YK1000XGS
Z400mm Stroke specification

Note. Inverse type is installed upside down.