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
Tiny
Small type
Medium type
Large type
Ceiling-mount / inverse type
Dust-proof & drip-proof type

YK600XS

Ceiling-mount / inverse type

● Arm length 600mm   ● Maximum payload 10kg

Note. Built-to-order product.
Contact us for the delivery period.

YK600XS (ceiling-mount)

YK600XS (inverse ceiling-mount)

■ Ordering method

YK600XS	-	-	-	RCX240	-	R	-	-	BB
Model	Installation method Note1	Z axis stroke	Cable length	Controller	Usable for CE	Regenerative unit	Expansion I/O Note 2	Network option	Battery

Installation method Note1
N: Ceiling-mount (same as per external view)
U: Inverse ceiling-mount (upside down)

Z axis stroke
200: 200mm
300: 300mm

Cable length
3L: 3.5m (Standard)
5L: 5m
10L: 10m

Usable for CE
No entry: Standard
E: CE marking

Regenerative unit
R: RGU-2

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

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.
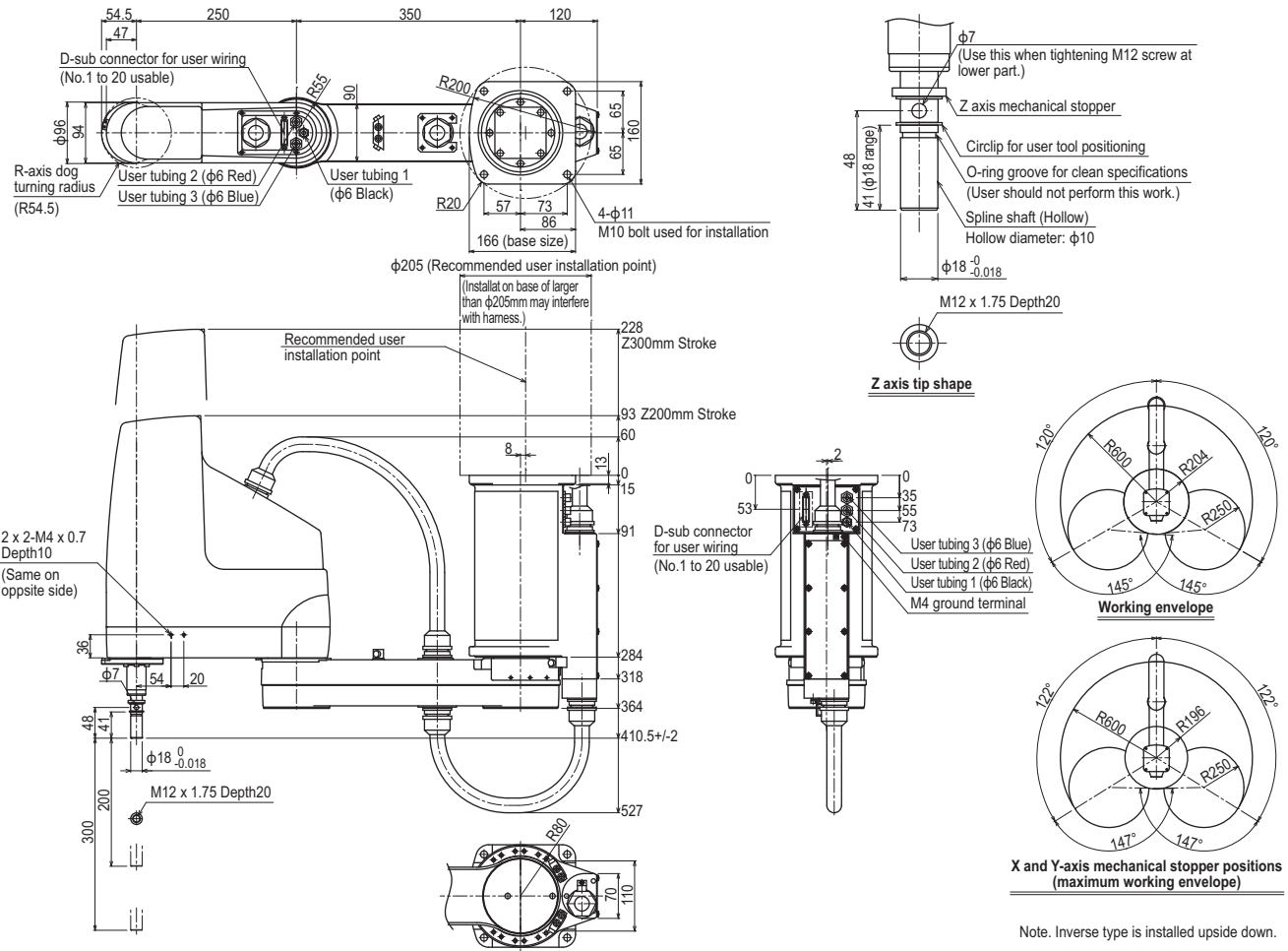See P.039 for details on YC-Link system.

■ Specifications

Axis specifications		X-axis	Y-axis	Z-axis		R-axis
	Arm length (mm)	350	250	200	300	–
	Rotation angle (°)	+/-120	+/-145	–		+/-360
	AC servo motor output (W)	400	200	200		100
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw		Harmonic drive
	Transmission method — Motor to speed reducer	Direct-coupled		Timing belt transmission		Timing belt transmission
	Transmission method — Speed reducer to output	Direct-coupled		Direct-coupled		Direct-coupled
Repeatability Note 1 (XYZ mm) (R °)		+/-0 02		+/-0 01		+/-0.005
Maximum speed (XYZ m/sec) (R °/sec)		5.6		1.7		876
Maximum payload (kg)		10				
Standard cycle time with 2kg payload Note 2 (sec)		0.56				
R-axis tolerable moment of inertia Note 3 (kgm²)		0.12				
User wiring (sq × wires)		0.2 × 20				
User tubing (Outer diameter)		φ6 × 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) (Excluding robot cable)		32				

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
Note 2. There are limits to acceleration coefficient settings.

■ Controller

Controller	Power capacity (VA)	Operation method
RCX240-R	1500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

YK600XS

Z axis tip shape

Working envelope

X and Y-axis mechanical stopper positions (maximum working envelope)

Note. Inverse type is installed upside down.