YK500TW

Orbit type

Arm length 500mm Maximum payload 5kg

Ordering method

YK500TW - 130					RCX340-4							
Model	Z axis stroke 130: 130mm	Tool flange No entry: None F: With tool flange	Hollow shaft No entry: None S: With hollow shaft	Cable 3L: 3.5m 5L: 5m 10L: 10m	Controller / Number of controllable axes	Safety standard	Option A (OP.A)	Option B (OP.B)	Option C (OP.C)	Option D (OP.D)	Option E (OP.E)	Absolute battery

Specify various controller setting items. RCX340 ▶ P.508

RCX240		R3					BB
Controller	CE Marking	Regenerativze unit	Expansion I/O	Network option	iVY System	Gripper	Battery

Specify various controller setting items. RCX240/RCX240S ▶ P.495

Specifications

			X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length		250 mm	250 mm	130 mm	-
	Rotation angle		+/-225 °	+/-225 °	-	+/-720 °
AC servo motor output			750 W	400 W	200 W	105 W
Deceleration mechanism	Speed reducer		Harmonic drive	Harmonic drive	Ball screw	Belt speed reduction
	Transmission method	Motor to speed reducer	Timing belt	Direct-coupled	Timing belt	Timing belt
		Speed reducer to output	Direct-coupled			
Repeatability Note 1			+/-0.015 mm		+/-0.01 mm	+/-0.01 °
Maximum speed			6.8 m/sec		1.5 m/sec	3000 °/sec
Maximum payload Note 2			5 kg (RCX340), 4 kg (RCX240)			
Standard cycle time: with 1kg payload Note 3			0.29 sec			
R-axis tolerable moment of inertia Note 4		Rated	0.005 kgm²			
		Maximum	0.05 kgm²			
User wiring			0.15 sq × 8 wires			
User tubing (Outer diameter)			φ 6 × 2			
Travel limit			1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
Robot cable length			Standard: 3.5 m Option: 5 m, 10 m			
Weight			27 kg			

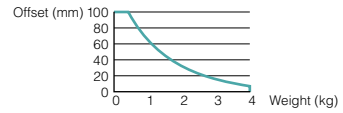
Note 1. This is the value at a constant ambient temperature.
Note 2. For the option specifications (tool flange mount type), the maximum payload becomes 4 kg (RCX340) or 3 kg (RCX240).
Note 3. When moving a 1 kg load back and forth 300 mm horizontally and 25 mm vertically (rough positioning arch motion).
Note 4. Limits must be placed on parameters such as acceleration according to the moment of inertia being used. See P.536.

Controller

Controller	Power capacity (VA)	Operation method
RCX340 RCX240-R3	2500	Programming / I/O point trace / Remote command / Operation using RS-232C communication

R-axis moment of inertia (load inertia)

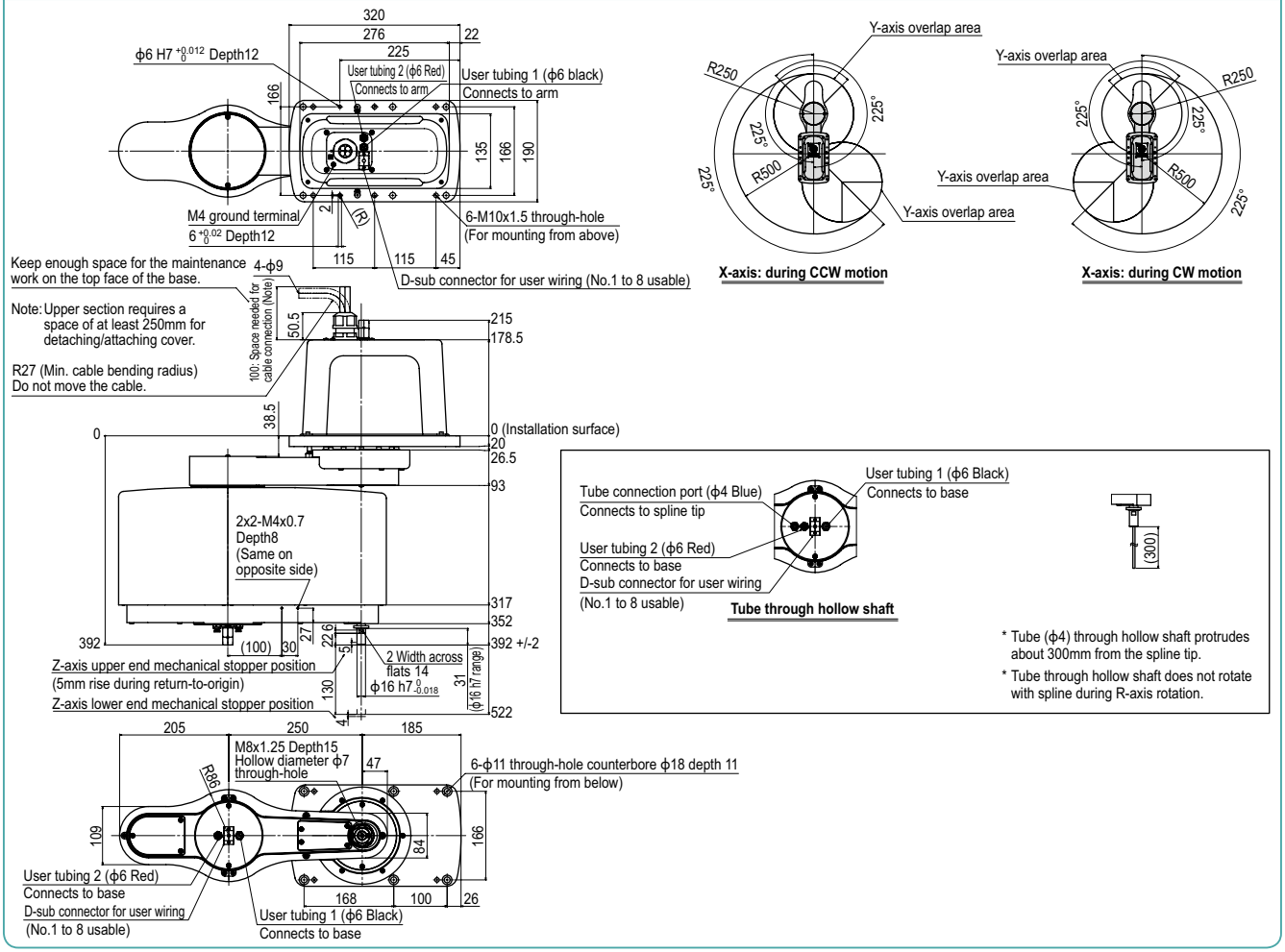
Recommended positional relationship between the load weight and the offset amount from the center of the R-axis (center of gravity position)



Note. "Harmonic" and "Harmonic drive" are the registered trademarks of Harmonic Drive Systems Inc.
Note. To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below:
http://global.yamaha-motor.com/business/robot/

YK500TW



YK500TW Tool flange mount type