

YK350TW

Orbit type



- Arm length 350mm
- Maximum payload 5kg

Ordering method

YK350TW-130

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
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RCX340-4

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
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Specify various controller setting items. RCX340 ▶ **P.508**

RCX240

Controller	CE Marking	Regenerative unit	Expansion I/O	Network option	IVY System	Gripper	Battery
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Specify various controller setting items. RCX240/RCX240S ▶ **P.495**

Specifications

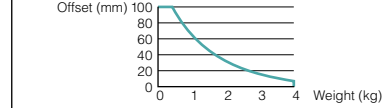
		X-axis	Y-axis	Z-axis	R-axis
Axis specifications	Arm length	175 mm	175 mm	130 mm	-
	Rotation angle	+/-225 °	+/-225 °	-	+/-720 °
AC servo motor output		750 W	400 W	200 W	105 W
Deceleration mechanism	Speed reducer	Harmonic drive	Harmonic drive	Ball screw	Belt speed reduction
	Transmission method	Timing belt	Direct-coupled	Timing belt	Timing belt
	Motor to speed reducer				
	Speed reducer to output		Direct-coupled		
Repeatability <small>Note 1</small>		+/-0.01 mm		+/-0.01 mm	+/-0.01 °
Maximum speed		5.6 m/sec		1.5 m/sec	3000 °/sec
Maximum payload <small>Note 2</small>		5 kg			
Standard cycle time: with 1kg payload <small>Note 3</small>		0.32 sec (RCX340) / 0.38 sec (RCX240)			
R-axis tolerable moment of inertia <small>Note 4</small>	Rated	0.005 kgm ²			
	Maximum	0.05 kgm ²			
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		26 kg			

Note 1. This is the value at a constant ambient temperature.
 Note 2. Tool flange specifications (option) are 4 kg.
 Note 3. When moving a 1 kg load back and forth 300mm horizontally and 25mm vertically (rough positioning arch motion).
 Note 4. Limits must be placed on parameters such as acceleration according to the moment of inertia being used.

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)

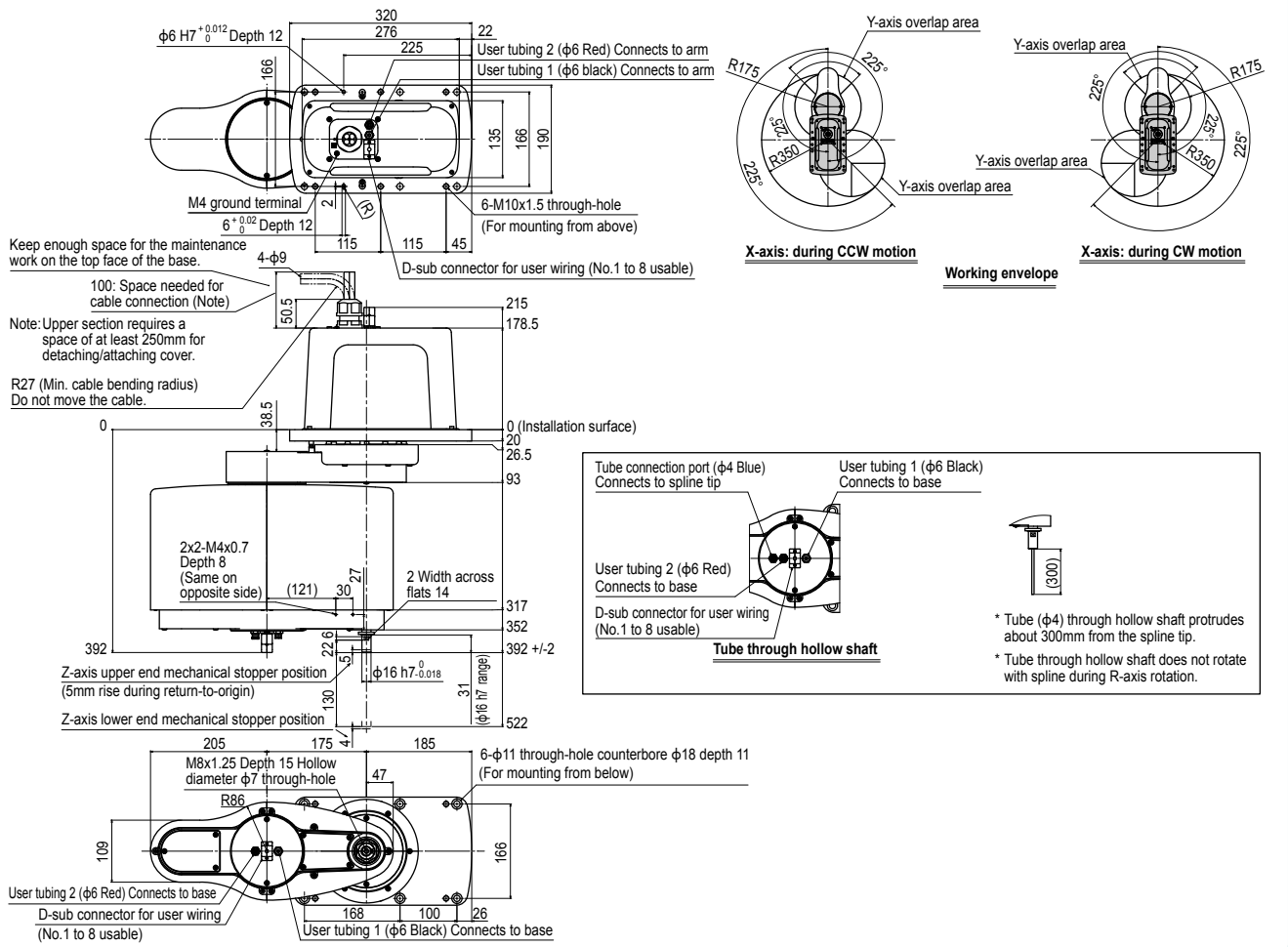


Note. When the payload exceeds 4kg, it is predicted that the R-axis moment of inertia may exceed the rated value. So, make proper parameter setting.

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/>

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YK350TW Tool flange mount type

