YK500TV

Orbit type

Arm length 500mm
Maximum payload 5kg

YK500TW-130

Tool flange - Hollow shaft

RCX340-4

5L: 5.511 10L: 10m

- Safety - Option A - Option B - Option C - Option D - Option E - Absolute axes standard (OP.A) (OP.B) (OP.C) (OP.D) (OP.E) battery

Specify various controller setting items. RCX340 ▶ P.566

■ Specifications							
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		250 mm	250 mm	130 mm	-	
specifications	Rotation ang	tation angle		+/-225°	-	+/-720	
AC servo motor output		750 W	400 W	200 W	105 W		
	Transmission method	Motor to speed reducer	Timing belt	Direct-coupled	Timing belt	Timing holt	
		Speed reducer to output		Direct-coupled		Timing belt	
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					
Standard cycle time: with 1kg payload Note 3			0.29 sec				
R-axis tolerable moment of Ra		Rated	0.005 kgm²				
inertia Note 4	ertia Note 4 Maximum		0.05 kgm ²				
User wiring	wiring 0.15 sq × 8 wires						
User tubing (Outer diameter)			ф 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				
Name of The Control							

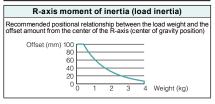
Note 1. This is the value at a constant ambient temperature

Note 2. For the option specifications (tool flange mount type), the maximum payload becomes 4 kg.

Note 3. When moving a 1 kg load back and forth 300 mm horizontally and 25 mm vertically (rough positioning arch motion).

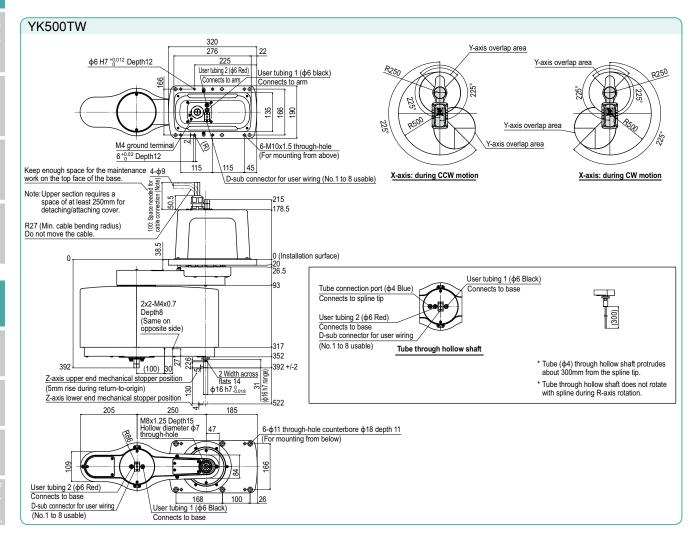
Note 4. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

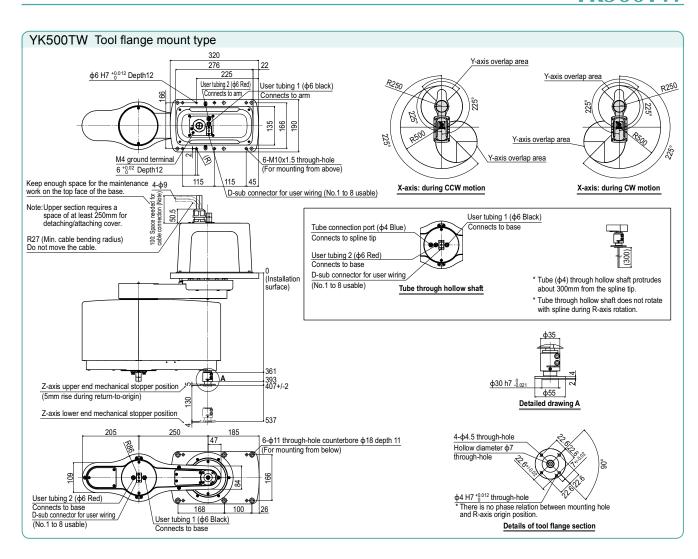
■ Controller Controller Power capacity (VA) Operation method Programming / I/O point trace / Remote command / RCX340 2500 Operation using RS-232C communication



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 https://global.yamaha-motor.com/business/robot/

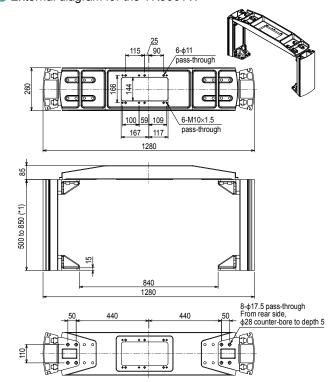




■ Dedicated mounting bracket for the YK-TW <BASE POST ASSY.>

The YK-TW can be easily installed on top of a customer-provided stand.

External diagram for the YK500TW



The mounting bracket is assembled by the customer. Refer to the included assembly diagram for assembly.

*1. Identical to the height of the robot mounting surface. The height of the stand can be selected at a 50 mm pitch.

Height (mm)	Model	Unit weight (kg)	
500	KDU-M6100-P0	46	
550	KDU-M6100-50	48	
600	KDU-M6100-R0	50	
650	KDU-M6100-60	51	
700	KDU-M6100-S0	54	
750	KDU-M6100-70	55	
800	KDU-M6100-T0	57	
850	KDU-M6100-80	59	

- * YK350TW and YK500TW are parts in common.
- * The top plate by itself weighs 19 kg.