

Orbit type

Arm length 500mm
Maximum payload 5kg

■ Ordering method

YK500TW-130

Tool flange - Hollow shaft No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4

Safety Option A Option B Option C Option D Option E Absorbandard (OP.A) (OP.B) OPTION C OP.D) OPTION D OPTION D

Specify various controller setting items. RCX340 ▶ **P.678**

■ Specifi	cations						
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		250 mm	250 mm	130 mm	-	
specifications	Rotation angle		+/-225 °	+/-225 °	-	+/-720 °	
AC servo motor output			750 W	400 W	200 W	105 W	
Deceleration	Transmission method	Motor to speed reducer	Timing belt	Direct-coupled	Timing belt	Timing belt	
mechanism		Speed reducer to output	Direct-coupled			Tilling beit	
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 Rated		0.005 kgm ²					
inertia Note 4		Maximum					
User wiring			0.15 sq × 8 wires				
User tubing (Outer diameter)			φ6×2				
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.

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

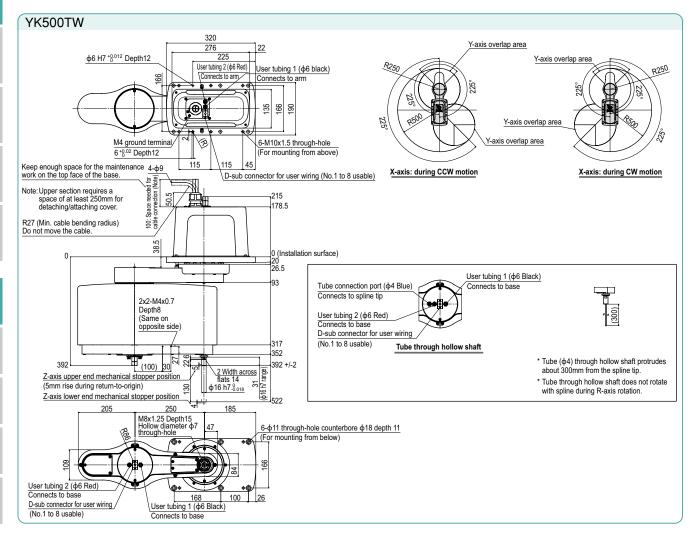
Note 4. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.

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

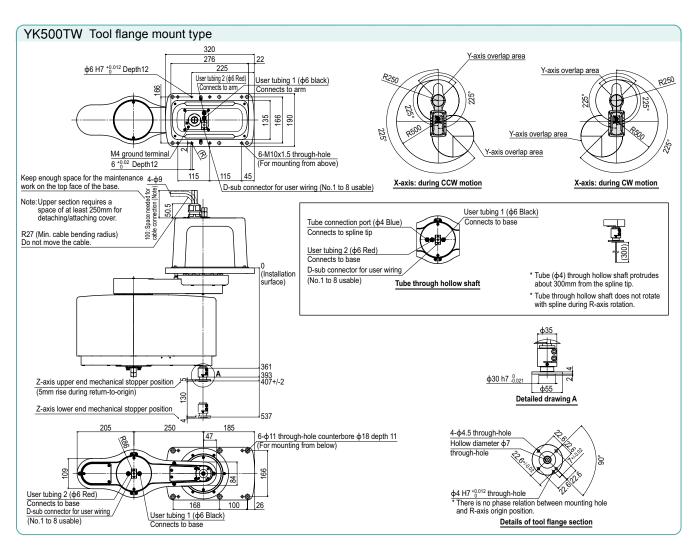
R-axis moment of inertia (load inertia)					
Recommended positional relationship between the load weight and the offset amount from the center of the R-axis (center of gravity position)					
Offset (mm) 100 80 60 40 20	0 1	2	3		Weight (kg)

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/



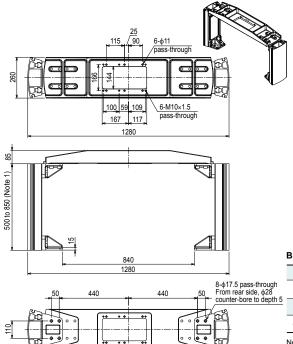
Controller



■ 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.

Note 1. Identical to the height of the robot mounting surface.

The height of the stand can be selected at a 50 mm pitch.

Hainht (mm)	Model	Haritanai alat (ka)
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

Bolts supplied with the controller

		* * * * * * * * * * * * * * * * * * * *			
	1	M16 x Pitch 2.0 x Length 45 [Hexagonal socket head bolt]	8 pcs. (For securing the installation base)		
2	2	Washer for M16 bolt [Plate thickness 3 mm, Outside diameter φ26, Inside diameter φ16]	8 pcs.		
١	3	M10 × Pitch 1.5 × Length 30	6 pcs. (Bolts used to secure the SCARA main body from the bottom surface.)		
	4	M10 × Pitch 1.5 × Length 40	6 pcs. (Bolts used to secure the SCARA main body from the top surface.)		

Note. Only either 3 or 4 is used.