Clean type: Medium type

Arm length 510mm
Maximum payload 10kg

●LOW COST HIGH PERFORMANCE MODEL



■ Ordering method

YK510XEC - 10 200

Maximum Z axis stroke

RCX340-4

Option A to E (OP.A to E)

No entry: None
F: With tool flange
BS: With brake release switch Specify various controller setting items.

■ Basic specifications							
			X axis	Y axis	Z axis	R axis	
Axis	Arm length		235 mm	275 mm	200 mm	-	
specifications	Rotation angle		+/-134 °	+/-147.5 °	-	+/-360 °	
AC servo motor output		400 W	200 W	200 W	200 W		
mechanism	Transmission	Motor to speed reducer	Direct-coupled		Timing belt		
	method	Speed reducer to output	Direct-coupled		Timing belt		
Repeatability Note 1		+/-0.0	)1 mm	+/-0.01 mm	+/-0.01 mm		
Maximum speed			7.8 m/sec 2 m/sec		2 m/sec	2600 °/sec	
Maximum payload			10 kg (Standard type), 9 kg (Optional: Tool flange mount type)				
Standard cycle time: with 2kg payload <sup>Note 2</sup>			0.42 sec				
R-axis tolerable moment of inertia Note 3			0.3 kgm <sup>2</sup>				
User wiring			0.2 sq × 10 wires				
User tubing			ф 6 × 3				
Travel limit			1.Soft limit, 2.Mechanical stopper (X, Y, Z axes)				
Robot cable length			Standard: 3.5 m Option: 5 m, 10 m				
Weight			27 kg				
Degree of cleanliness			ISO CLASS 4 (ISO14644-1)				
Suction air flow			60 (Nℓ/min) Note 4				

Note 1. This is the value at a constant ambient temperature. (X,Y axes)

Note 2. When reciprocating 300mm in horizontal and 25mm in vertical directions and performing the coarse positioning arch operation.

Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and offset amount for R-axis moment of inertia settings

Note 4. Set within the range of ±1 Nt/min If the suction amount is not appropriate, the cleanliness may be adversely affected or the bellows may be deformed.

■ Controller						
Controller	Power capacity (VA)	Operation method				
RCX340	1700	Programming / point trace / Remote command / Operation using RS-232C communication				

Note. User wiring and user tubing can be passed through from the top of the Z-axis shaft to the tip.

Note. The movement range can be restricted by adding the X- and Y-axis mechanical stoppers. (The maximum movement range was set at shipment.) See our robot manuals (installation manuals) for detailed information.

Note. To set the standard coordinates with high accuracy, use a standard coordinate setting in (online). Before to the user's

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/

