## YK610XFC-10

Clean type: Medium type

**OLOW COST HIGH PERFORMANCE MODEL** 



■ Ordering method

YK610XEC - 10 200

Arm length 610mm
Maximum payload 10kg

Maximum Z axis stroke

No entry: None F: With tool flange

No entry: None BS: With brake release switch

Cable

RCX340-4

Controller

RCX340

Option A to E (OP.A to E)

Programming / point trace / Remote command /

Operation using RS-232C communication

Specify various controller setting items.

■ Basic specifications							
			X axis	Y axis	Z axis	R axis	
Axis	Arm length		335 mm	275 mm	200 mm	-	
specifications	Rotation angle		+/-134 °	+/-147.5 °	-	+/-360 °	
AC servo motor output			400 W	200 W	200 W	200 W	
Deceleration mechanism	Transmission	Motor to speed reducer	Direct-coupled		Timin	Timing belt	
	method	Speed reducer to output	Direct-coupled			Timing belt	
Repeatability Note 1			+/-0.01 mm		+/-0.01 mm	+/-0.01 mm	
Maximum speed			8.6 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 Note 2			0.44 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 (Nt/min) Note 4				

Controller Power capacity (VA) Operation method

1700

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 iii (orligh). 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/

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.

