## YK710XE-10 Standard type: Large type LOW COST HIGH PERFORMANCE MO ■ LOW COST HIGH PERFORMANCE MODEL

Arm length 710mm
Maximum payload 10kg

Ordering method

YK710XE- 10 -200

No entry: None
F: With tool flange
S: With hollow shaft

RCX340-4

Specify various controller setting items. RCX340 ▶ **P.566** 

Controller

RCX340

Note. The return-to-origin method is provided only in the sensor specifications, but not in the stroke end specifications.

■ Specifications							
			X-axis	Y-axis	Z-axis	R-axis	
Axis	Arm length		435 mm	275 mm	200 mm	-	
specifications	Rotation angle		+/-134 °	+/-152 °	-	+/-360 °	
AC servo motor output			400 W	200 W	200 W	200 W	
Deceleration mechanism	Transmission method	Motor to speed reducer	Direct-coupled		Timin	Timing belt	
		Speed reducer to output	Direct-coupled		Timing belt		
Repeatability Note 1			+/-0.02 mm		+/-0.01 mm	+/-0.01 °	
Maximum speed			9.5 m/sec		2 m/sec	2600 °/sec	
Maximum payload			10 kg (Standard specification), 9 kg (Option specifications Note 4)				
Standard cycle time: with 2kg payload Note 2			0.42 sec				
R-axis tolerable moment of inertia Note 3			0.3 kgm <sup>2</sup>				
User wiring			0.2 sq × 20 wires				
User tubing (Outer diameter)			ф 6 × 3				
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. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.)
See our robot manuals (installation manuals) for detailed information.

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.

Controller Power capacity (VA) Operation method

1700

Programming / I/O point trace Remote command /

Operation using RS-232C communication

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. Maximum payload of option specifications (with user wiring/tubing through spline type) is 9kg

YK710XE-10 User wiring connector (Numbers 1 to 12 are usable.)
J.S.T. Mfg. Co.,Ltd. SM connector: SMR-12V-B
Pin: SYM-001T-P0.6 is attached. Use AP-K2N for the crimping machine. User tubing 3 (\$\phi6\$ blue) User tubing 2 (φ6 red) User tubing 1 (φ6 black 176 (Base size) (45) 4-M3 × 0.5 through-hole 114 (No phase relation to R-axis origin.)
As this hole is intended for the wiring/tubing clamp 60 52 6 H7 +0.012 7 notattach a large load to it. 8 R232 97 R275 φ6 H7 <sup>+0.012</sup> User wiring connector (Numbers 1 to 8 are usable.) J.S.T. Mfg. Co.,Ltd. SM connector SMR-9V-B Pin: SYM-001T-P0.6 is attached. Use AP-k2N for the crimping machine 77+/-0.05 9.9 9.9 2 M8 bolt for installation 88 View of B 300.3 28+/-0.05 Working envelope
X-axis mechanical stopper position : 142° 45 105 Maximum 400 during Y-axis mechanical stopper position: 154' rm rotation 86.6 99 Maximum 700 during arm rotation I User wiring connector (Numbers 1 to 8 are usable.) J.S.T. Mfg. Co.,Ltd. SM connector: SMR-9V-B Pin: SYM-001T-P0.6 is attached. Use AP-K2N for the 582.5 imeter \$14 Hollow diar Base installation surface Option
User wiring and tubing routed through spline shaft. crimping machine. Cross section A-A User wiring connector (Numbers 1 to 12 are usable.)
J.S.T. Mfg. Co.,Ltd.
SM connector: SMR-12V-B
Pin: SYM-001T-P0.6 is attached.
Use AP-K2N for the 340 SYAMAHA Z-axis upper end mechanical 260 mechanical stopper position 7.5mm rise during 20 215 return-to-origin 133 crimping machine 153+/-24 φ20 h7 -0.021 (Z-axis origin position) Z-axis lower end mechanical stopper position φ40 φ40 User tool installation range 11(Installation hole seat) 51.8 4-φ5.5 through-hole 9 M4 ground terminal (No phase relation to R-axis origin.) 17 ф50 28 Hollow diameter  $\phi$ 14 Tapped hole for user wiring: 6-M4  $\times$  0.7 Depth 8 The weight of the tool attached here should be added to the tip mass. User tubing 1 (φ6 black) User tubing 2 (φ6 red) † φ34 h7 -0.025 C 28+/-0.02 User tubing 3 (\$6 blue) 83 φ5 H7 <sup>+0.012</sup> through-hole φ70 Keep enough space for the maintenance vork at the rear of the ba Base installation surface **(99**) 4-φ9 Min. cable bending radius R27(\*) Option Tool flange mount type \*Do not move the cable View of C



