

# YK400XE-4

Standard type: Small type

LOW COST HIGH PERFORMANCE MODEL



- Arm length 400mm
- Maximum payload 4kg

## Ordering method

<b>YK400XE-4</b>	<b>150</b>	<b>RCX340-4</b>																
<b>Model</b>	<b>Maximum payload</b>	<b>Return-to-origin method</b> S: Sensor T: Stroke end	<b>Z axis stroke</b>	<b>Hollow shaft</b> No entry: None S: With hollow shaft	<b>Cable</b> 3L: 3.5m 5L: 5m 10L: 10m	<b>Controller / Number of controllable axes</b>	<b>Safety standard</b>	<b>Option A (OP.A)</b>	<b>Option B (OP.B)</b>	<b>Option C (OP.C)</b>	<b>Option D (OP.D)</b>	<b>Option E (OP.E)</b>	<b>Absolute battery</b>					

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

## Specifications

		X-axis	Y-axis	Z-axis	R-axis
<b>Axis specifications</b>	<b>Arm length</b>	225 mm	175 mm	150 mm	-
	<b>Rotation angle</b>	+/-132°	+/-150°	-	+/-360°
<b>AC servo motor output</b>		200 W	100 W	100 W	100 W
<b>Deceleration mechanism</b>	<b>Transmission method</b>	Direct-coupled		Timing belt	
	<b>Speed reducer to output</b>	Direct-coupled		Timing belt	
<b>Repeatability</b> <sup>Note 1</sup>		+/-0.01 mm		+/-0.01 mm	+/-0.01°
<b>Maximum speed</b>		6 m/sec		1.1 m/sec	2600 °/sec
<b>Maximum payload</b>		4 kg (Standard specification), 3 kg (Option specifications) <sup>Note 4</sup>			
<b>Standard cycle time: with 2kg payload</b> <sup>Note 2</sup>		0.41 sec			
<b>R-axis tolerable moment of inertia</b> <sup>Note 3</sup>		0.05 kgm <sup>2</sup> (0.5 kgfcm <sup>2</sup> )			
<b>User wiring</b>		0.2 sq × 10 wires			
<b>User tubing (Outer diameter)</b>		φ 4 × 3			
<b>Travel limit</b>		1.Soft limit 2.Mechanical stopper (X,Y,Z axis)			
<b>Robot cable length</b>		Standard: 3.5 m Option: 5 m, 10 m			
<b>Weight</b>		17 kg			

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 shaft) is 3kg.

## Controller

Controller	Power capacity (VA)	Operation method
RCX340	1000	Programming / Remote command / Operation using RS-232C communication

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 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/>

## YK400XE-4

