

# YK250X

Standard Type

Arm length 250mm/Maximum payload 3kg

## Robot ordering method

**YK250X - 150 - 3L - RCX142 - E - N1 - CC - S**

Model      Z axis stroke      Cable length      Controller      CE      Expansion I/O      Network      Battery

150:150mm (MAX:300mm\*)      3L:3.5m      5L:5m      10L:10m      Blank:Standard      E:CE specification

Controller type: Refer to the Controller Catalog for further details.

## Basic specifications

\* The products with Z axis stroke of 200 mm or more are built to the order. Contact us for the delivery period, specifications, external appearance, etc.

Model		YK250X	
Axis specifications	X axis	Arm length	125mm
		Rotation range	± 115°
	Y axis	Arm length	125mm
		Rotation range	± 140°
Z axis	Stroke	150mm	
R axis	Rotation range	± 180°	
Motor	X axis	200W	
	Y axis	100W	
	Z axis	100W	
	R axis	100W	
Maximum speed	X, Y combined	4.0m / s	
	Z axis	1.0m / s	
	R axis	1020° / s	
Repeatability*1	X, Y axis	± 0.01mm	
		± 0.01mm	
	Z axis	± 0.01mm	
	R axis	± 0.005°	
Max. payload		3kg	
Standard cycle time (with 2kg payload)		0.54 sec.	
R axis allowable moment inertia*2		0.049kgm <sup>2</sup> (0.5kgfcm <sup>2</sup> )	
User wiring		0.2sq × 10 wires	
User tubing		ø4 × 3	
Movement limit setting		1. Soft limit, 2. Mechanical limit (X, Y, Z axes)	
Robot cable		Standard 3.5m Option: 5m, 10m	
Controller, Power supply capacity		RCX142, 1000VA	
Weight		15kg	



YK250X

\*1: This is the value at a constant ambient temperature. (X, Y axes)  
 \*2: There are limits to the setting of the acceleration coefficient.

### YK250X

D-sub connector for user cables (Adapted to #1 to 10)

User tubes 1 (ø4 Black)  
 User tubes 2 (ø4 Red)  
 User tubes 3 (ø4 Blue)

Use M8 bolt for installation

Z axis mechanical stopper

ø5 (use when tightening the lower M8 screw)  
 Positioning snap ring for use by user  
 O-ring groove for clean specifications (User should not perform this work.)  
 M8 X 1.25 Depth 15

Z axis mechanical stopper

644, 454, 250, 203.5, 86, 45, 0

576, 152±2, 150, 41, 36, 12<sup>0.018</sup>

M8 X 1.25 Depth 15

Robot interference area

Working envelope

115°, 140°, 140°, 115°, R250, R86, R125, 90°, 120°, 90°

User tubes 1 (ø4 Black)  
 User tubes 2 (ø4 Red)  
 User tubes 3 (ø4 Blue)

M4 grounding terminal

D-sub connector for user cables (Adapted to #1 to 10)