

Motorized Stage

Thin Type XY-axis Cross Roller Guide: KY0725C/KY0830C/KY1040C/KY1250C

Motorized Stage

RoHS

KY0725C-L



KY0830C-L



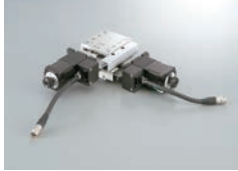
KY1040C-L



KY1250C-L



KY0725C-R



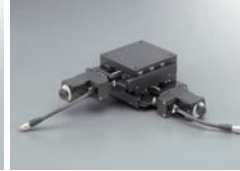
KY0830C-R



KY1040C-R



KY1250C-R



Model Selection code Option code

K **Y0725C-L** **5**

1 2 3 4 5 6

🔗 Cable P.1-207~
🔗 Electrical specification P.1-099~

1 Axis

Y	XY-axis
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2 Table size

07	<input type="checkbox"/> 70mm
08	<input type="checkbox"/> 80mm
10	<input type="checkbox"/> 100mm
12	<input type="checkbox"/> 120mm

3 Travel length

25	25mm
30	30mm
40	40mm
50	50mm

* Selectable only 0725, 0830, 1040, 1250 in combination with **2** and **3**.

4 Guide

C	Crossed roller
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5 Sensor cover location specification

L	L position
R	Opposite hand

6 Cable option

Code	Specification	Cable type
Blank	2m	D214-2-2E
1	2m One end loose	D214-2-2EK
2	4m	D214-2-4E
3	4m One end loose	D214-2-4EK
4	Only connector (Cable is not included)	—
5	Cable is not included (Standard)	—
6	Robot cable 2m	D214-2-2R
7	Robot cable 4m	D214-2-4R
8	Robot cable 4m one end loose	D214-2-4RK
9	Robot cable 2m one end loose	D214-2-2RK

* One end loose position to only stage opposite side.

* If you choose the option specification, please add the difference to standard price.

* See page [P.1-207, 209~](#) for more cable details.

* Please select "blank, 2, 6 and 7" when connect with stepping motor controller(DS102/112).

X

XY

Z

Horizontal Z

XYZ

Goniometer

Rotary

Unit

Controller

Linear Ball

CAVE-X Linear ball

Cross Roller

Slide Guide

φ40

φ50

φ60

φ70

φ80

φ100

φ120

Other

1
095

		SPEC			
Model		KY0725C-L5	KY0830C-L5	KY1040C-L5	KY1250C-L5
(Opposite hand)		KY0725C-R5	KY0830C-R5	KY1040C-R5	KY1250C-R5
Mechanical specification	Travel length	25mm	30mm	40mm	50mm
	Table size	70×70mm	80×80mm	100×100mm	120×120mm
	Feed screw	Ball screw φ6 lead 1		Ball screw φ8 lead 1	
	Guide	Crossed roller guide			
Main materials-Finishing		Aluminum—White almite finish		Aluminum—Black almite finishing	
Weight		2.0kg	2.4kg	3.2kg	4.4kg
Accuracy specification	Resolution (Pulse)	Full/Half Microstep	1μm/0.5μm		
			0.05μm (1/20 on resolution)		
	MAX speed	10mm/sec			
	Load capacity	10kgf [98N]	15kgf [147N]	20kgf [196N]	25kgf [245N]
Perpendicularity		Within 30μm/Full stroke			
Sensor	Limit sensor	Installed			
	Origin sensor	Installed			
	Slit origin sensor	Installed			
	Provided screw (Hexagon-headed bolt)	4 of M4—8		4 of M4—10	4 of M6—10
Stage accuracy specification	Uni-directional positioning accuracy	Within 5μm			
	Repeatability positioning accuracy	Within ±0.3μm			
	Lost motion	Within 1μm			
	Backlash	Within 0.5μm			
	Straightness	Within 1μm			
	Pitching/Yawing	Within 20"/Within 15"			