

# Motorized Stage

CAVE-X POSITIONER

## XY-axis Linear Ball Guide: KYL06100/KYL06150

Motorized Stage



RoHS



● Cable P.1-207~  
● Electrical specification P.1-077~

### 1 Travel length

100	100mm
150	150mm

### 2 Cover type

N	Uncovered	
C	Covered	

### 3 Ball screw lead selection

2	Lead 2mm
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### 4 Motor option

Code	Specification
F	High-torque
G	High resolution
MA	With electromagnetic brake (Driver set)
PA	$\alpha$ Step (Driver set)
U	Servo motor (Amplifier set)

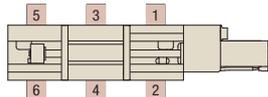
\* Code MA · PA · U is the set of driver and cable.  
\* See page P.1-077~ for details of motor option.

### 5 Origin sensor option

Code	Specification
Blank	None
1	CCW right side
2	CCW left side
3	Center right side
4	Center left side
5	CW right side
6	CW left side

\* See page P.1-079~ for details of origin sensor option.

■ Position of origin sensor option (Please choose one position)



### 6 Cable option

Code	Specification	Cable type
A	2m	D214-2-2E
B	2m One end loose	D214-2-2EK
C	4m	D214-2-4E
D	4m One end loose	D214-2-4EK
E	Only connector (Cable is not included)	—
F	Robot cable 2m	D214-2-2R
G	Robot cable 2m one end loose	D214-2-2RK
H	Robot cable 4m	D214-2-4R
J	Robot cable 4m one end loose	D214-2-4RK
M	Cable for electromagnetic brake	—
P	Cable for $\alpha$ step	
U	Cable for servo motor	
Blank	Cable is not included (Standard)	—

\* One end loose position to only stage opposite side.

\* The price includes M, P and U.

Not available non-cable.

\* See page P.1-207,209~ for details of cable.

\* Please select "Code A, C, F or H" when connect with stepping motor controller(DS102/112).

[Note]  
Please check available cable from compatibility list.  
Not included cable for a main body. Please choose the code as below.

Motor/cable products list	Motor code	Cable code
	F,G	Blank, A~H,J
MA	M	
PA	P	
U	U	

### SPEC

Model	Uncovered	KYL06100-N2-F	KYL06150-N2-F	
	Covered	KYL06100-C2-F	KYL06150-C2-F	
Mechanical specification	Travel length	100mm	150mm	
	Table size	60×60mm		
	Feed screw (Ball screw)	$\phi$ 8 lead 2		
	Guide	Linear ball guide		
Main materials-Finishing	Stainless—Opposite side of the end face finishing			
	Weight	Uncovered	3.6kg	4.2kg
		Covered	3.72kg	4.32kg
Accuracy specification	Resolution (Pulse)	4 $\mu$ m/2 $\mu$ m		
		0.2 $\mu$ m (1/20 on resolution)		
	MAX speed	45mm/sec		
	Load capacity	10kgf [98N]		
	Perpendicularity	Within 50 $\mu$ m/Full stroke	Within 75 $\mu$ m/Full stroke	
Sensor	Limit sensor	Installed		
	Origin sensor	— ※Attachable in origin sensor option		
	Slit origin sensor	—		
Provided screw (Hexagon-headed bolt)		8 of M4—14	14 of M4—14	
Shaft accuracy specification	Uni-directional positioning accuracy	Within 10 $\mu$ m		
	Repeatability positioning accuracy	Within $\pm$ 0.5 $\mu$ m		
	Lost motion	Within 1 $\mu$ m		
	Backlash	Within 1 $\mu$ m		
	Straightness	Within 5 $\mu$ m		
	Pitching/Yawing	Within 25" / Within 20"		

※ Might be changed specification due to motors. See page P.1-213~ for details.

X

XY

Z

Horizontal Z

XYZ

Goniometer

Rotary

Unit

Controller

Linear Ball

CAVE-X Linear ball

Cross Roller

Slide Guide

$\phi$ 40

$\phi$ 50

$\phi$ 60

$\phi$ 70

$\phi$ 80

$\phi$ 100

$\phi$ 120

Other