

Motorized Stage

CAVE-X POSITIONER

X-axis Linear Ball Guide: KXL06200/KXL06300

Motorized Stage

KXL06200-N



KXL06300-N



KXL06200-C



KXL06300-C



Freely customize the motor

RoHS

See page P.009

Model Selection code Option code

KXL06 200-N2-F

1 2 3 4 5 6

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

1 Travel length

200	200mm
300	300mm

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	α Step (Driver set)
U	Servo motor (Amplifier set)

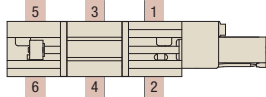
* Code MA · PA · U is the set of driver and cable.
* See page P.1-077~ for details of motor option.

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	—
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 α 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	KXL06200-N2-F	KXL06300-N2-F	
	Covered	KXL06200-C2-F	KXL06300-C2-F	
Mechanical specification	Travel length	200mm	300mm	
	Table size	60×60mm		
	Feed screw (Ball screw)	φ8 lead 2		
	Guide	Linear ball guide		
Main materials-Finishing	Stainless—Opposite side of the end face finishing			
	Weight	Uncovered	2.42kg	3.02kg
		Covered	2.48kg	3.12kg
Accuracy specification	Resolution (Pulse)	4μm/2μm		
		0.2μm (1/20 on resolution)		
	MAX speed	45mm/sec		
	Uni-directional positioning accuracy	Within 15μm	Within 25μm	
	Repeatability positioning accuracy	Within ±0.5μm		
	Load capacity	12kgf [11 7.6N]		
	Moment stiffness	Pitch 0.05/yaw 0.05/roll 0.05 ["/N · cm]		
	Lost motion	Within 1μm		
	Backlash	Within 1μm		
	Straightness	Within 7μm		
Parallelism	Within 15μm			
	Motion parallelism	Within 20μm	Within 25μm	
	Pitching/Yawing	Within 30"/Within 20"	Within 35"/Within 20"	
Sensor	Limit sensor	Installed		
	Origin sensor	— ※Attachable in origin sensor option		
	Slit origin sensor	—		
Provided screw (Hexagon-headed bolt)	12 of M4—14		16 of M4—14	

※ 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

φ40

φ50

φ60

φ70

φ80

φ100

φ120

Other