

# Motorized Stage

CAVE-X POSITIONER

## Z-axis Linear Ball Guide: KZL06030/KZL06050/KZL06075

KZL06030-N/KZL06050-N/KZL06075-N KZL06030-C/KZL06050-C/KZL06075-C



RoHS

Motorized Stage

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

Model Selection code Option code

**KZL06** **030-N1-C**

1 2 3 4 5 6

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

### 1 Travel length

030	30mm
050	50mm
075	75mm

### 2 Cover type

N	Uncovered	
C	Covered	

### 3 Ball screw lead selection

1	Lead 1mm
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### 4 Motor option

Code	Specification
C	Standard
F	High-torque
G	High resolution
MA	With electromagnetic brake (Driver set)
PA	α Step (Driver set)
U	Servo motor (Amplifier set)

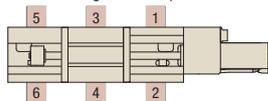
\* Code MA · PA · U is the set of driver and cable.

### 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 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
	C,F,G	Blank, A~H,J
MA	M	
PA	P	
U	U	

SPEC							
Model	Uncovered			Covered			
	KZL06030-N1-C	KZL06050-N1-C	KZL06075-N1-C	KZL06030-C1-C	KZL06050-C1-C	KZL06075-C1-C	
Mechanical specification	Travel length	30mm	50mm	75mm	30mm	50mm	75mm
	Table size	60×60mm					
	Feed screw (Ball screw)	φ8 lead 1					
	Guide	Linear ball guide					
	Main materials-Finishing	Stainless—Opposite side of the end face finishing					
Accuracy specification	Weight	2kg	2.12kg	2.26kg	2.06kg	2.16kg	2.32kg
	Resolution (Pulse)	Full/ Half	2μm/1μm				
		Microstep	0.1μm (1/20 on resolution)				
	MAX speed	20mm/sec					
	Load capacity (Excitation)	7kgf [68.6N]					
Sensor	Vertical degree	Within 15μm/Full stroke	Within 25μm/Full stroke	Within 37.5μm/Full stroke	Within 15μm/Full stroke	Within 25μm/Full stroke	Within 37.5μm/Full stroke
	Limit sensor	Installed					
	Origin sensor	— ※Attachable in origin sensor option					
	Slit origin sensor	—					
	Provided screw (Hexagon-headed bolt)	4 of M4—10					
Style accuracy specification	Uni-directional positioning accuracy	Within 5μm		Within 7μm	Within 5μm		Within 7μm
	Repeatability positioning accuracy	Within ±0.5μm					
	Lost motion	Within 1μm					
	Backlash	Within 1μm					
	Straightness	Within 3μm					
	Pitching/Yawing	Within 20"/Within 15"					

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