Horizontal Z

XYZ

Rotary

Controller

#### CAVE-X POSITIONER

# X-axis Linear Ball Guide: KXL06100/KXL06150

KXL06100-N











See page P.009

# Model Selection code Option code KXL06 100-N

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

# 1 Travel length

100	100mm	
150	150mm	
<b>2</b> Co	2 Cover type	
N	Uncovered	

3 Ball screw lead selection 2 Lead 2mm

#### 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)	

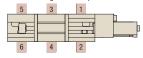
\* Code MA · PA · II is the set of driver and cable \* See page P.1-077~ for details of motor option.

### 5 Origin sensor option

0 1	0 :5 ::
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 )



KXL06100-N2-F

KXL06100-C2-F

100mm

1.80kg

1.86kg

Within  $10\mu m$ 

Within 10 $\mu$ m

8 of M4-14

## 6 Cable option

Code	Specification	Cable type
Α	2m	D214-2-2E
В	2m One end loose	D214-2-2EK
С	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
Н	Robot cable 4m	D214-2-4R
J	Robot cable 4m one end loose	D214-2-4RK
M	Cable for electromagnetic brake	
Р	Cable for $\alpha$ step	_
U	Cable for servo motor	
Blank	Without cable	_

- \* One end loose position to only stage opposite side.
- \* The price includes M, P and U.

60×60mm

 $\varphi$ 8 lead 2

Linear ball guide

Stainless-Opposite side of the end face finishing

4μm/2μm

 $0.2\mu m$  (1/20 on resolution)

45mm/sec

Within  $\pm 0.5 \mu$ m

12kgf [117.6N] Pitch 0.05/yaw 0.05/roll 0.05["/N · cm]

Within  $1\mu m$ 1Within  $\mu$ m

Within  $5\mu m$ 

Within  $15\mu m$ 

Within 25"/Within 20'

Installed

- 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
			M
		PA	Р
		- II	- II

KXL06150-N2-F

KXL06150-C2-F

150mm

2.10kg

2.16kg

Within  $15\mu m$ 

Within 15 $\mu$ m

14 of M4-14

\*Attachable in origin sensor option

# **CAVE-X** Linear ball

Cross Roller

Slide Guide

φ50 φ60

φ70

φ100

φ120

**Other** 

Uncovered

Covered

Table size

Guide

Weight

Resolution (Pulse)

Load capacity

Backlash

Straightness

Moment stiffness Lost motion

Motion parallelism

Pitching/Yawing Limit sensor

Slit origin sensor

Origin sensor

Travel length

Feed screw (Ball screw)

Main materials-Finishing

Uncovered

Covered

Microstep

Uni-directional positioning accuracy

Repeatability positioning accuracy

Provided screw (Hexagon-headed bolt)		8 of M4—1
Might be changed specification due to		o motors. See page C P.1-213~ for details.