

Motorized Stage

CAVE-X POSITIONER

X-axis Linear Ball Guide : KXG06020/KXG06030

Motorized Stage

KXG06020



KXG06030



See page P.009

The drive unit areas are coated in clean grease.



Cable P.1-207~
Electrical specification P.1-051~

1 Travel length

020	20mm
030	30mm

2 Motor option

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

* Code MA · PA is the set of driver and cable.
* See page P.1-051~ for details of Motor option.

3 Cable option

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

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

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

		SPEC						
Model		KXG06020-C	KXG06020-F	KXG06020-G	KXG06030-C	KXG06030-F	KXG06030-G	
Mechanical	Travel length	20mm			30mm			
	Table size	60×60mm			60×70mm			
	Feed screw (Ball screw)	φ8 lead 1						
	Guide	Linear ball guide						
Accuracy specification	Main materials-Finishing	Stainless—Opposite side of the end face finishing						
	Weight	0.78kg	0.87kg	0.78kg	0.9kg	0.99kg	0.9kg	
	Resolution (Pulse)	Full/Half	2μm/1μm		1μm/0.5μm	2μm/1μm		1μm/0.5μm
		Microstep	0.1μm (1/20 on resolution)		0.05μm (1/20 on)	0.1μm (1/20 on resolution)		0.05μm (1/20 on)
	MAX speed	20mm/sec	30mm/sec	20mm/sec	20mm/sec	30mm/sec	20mm/sec	
	Uni-directional positioning	Within 5μm						
	Repeatability positioning	Within ±0.5μm						
	Load capacity	5kgf [49N]						
	Moment stiffness	Pitch 0.08/yaw 0.05/roll 0.05 ["/N · cm]						
	Lost motion	Within 1μm						
Sensor	Backlash	Within 1μm						
	Straightness	Within 3μm						
	Parallelism	Within 15μm						
	Motion parallelism	Within 10μm						
	Pitching/Yawing	Within 20"/15"						
	Limit sensor	Installed						
Origin sensor	Installed							
Slit origin sensor	—							
Provided screw (Hexagon-headed)	4 of M4—12							

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