

Motorized Stage

CAVE-X POSITIONER

XY-axis Linear Ball Guide: KYG06020/KYG06030

Motorized Stage

KYG06020



KYG06030



RoHS

Model Selection code Option code
KYG06 020-C

1 2 3

▶ 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 brake (Driver set)
PA	α Step (Driver set)

* 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	D214-2-2EK
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 brake	—
P	Cable for α step	—
Blank	Cable is not included (Standard)	—

* 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

SPEC

Model	KYG06020-C	KYG06020-F	KYG06020-G	KYG06030-C	KYG06030-F	KYG06030-G
Travel length	20mm			30mm		
Table size	60×60mm			60×70mm		
Feed screw (Ball screw)	φ8 lead 1					
Guide	Linear ball guide					
Main materials-Finishing	Stainless—Opposite side of the end face finishing					
Weight	1.56kg	1.74kg	1.56kg	1.8kg	1.98kg	1.8kg
Resolution (Pulse)	Full/ Half	2μm/1μm		2μm/1μm		1μm/0.5μm
	Microstep	0.1μm (1/20 on resolution)		0.1μm (1/20 on resolution)		0.05μm (1/20 on resolution)
MAX speed	20mm/sec	30mm/sec	20mm/sec	20mm/sec	30mm/sec	20mm/sec
Load capacity	4kgf [39.2N]					
Perpendicularity	Within 10μm/ Full stroke			Within 15μm/ Full stroke		
Pitching/Yawing	Within 20"/15"					
Limit sensor	Installed					
	Installed					
	—					
Provided screw (Hexagon-headed bolt)	4 of M4—14					
Single-axis accuracy specification	Uni-directional positioning accuracy	Within 5μm				
	Repeatability positioning accuracy	Within ±0.5μm				
	Lost motion	Within 1μm				
	Backlash	Within 1μm				
	Straightness	Within 3μm				

※ 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