

Motorized Stage

CAVE-X POSITIONER

XYZ-axis Linear Ball Guide: KWG06020/KWG06030

Motorized Stage

KWG06020



KWG06030



RoHS

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
KWG06 020-C

1

2

3

▶ Cable P.1-207~

▶ Electrical specification P.1-051~

1 Travel

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 electromagnetic 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	
U	U	

SPEC

Model	KWG06020-C	KWG06020-F	KWG06020-G	KWG06030-C	KWG06030-F	KWG06030-G
Mechanical specification						
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	2.7kg	2.97kg	2.7kg	3.06kg	3.33kg	3.06kg
Accuracy specification	Resolution (Pulse)	2μm/1μm		2μm/1μm		1μm/0.5μm
		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	30mm/sec	20mm/sec
Load capacity	3kgf [29.4N]					
Vertical degree	Within 10μm/ Full stroke			Within 15μm/ Full stroke		
Pitching/Yawing	Within 20"/15"					
Sensor	Limit sensor	Installed				
	Origin sensor	Installed				
	Slit origin sensor	—				
Provided screw (Hexagon-headed bolt)	4 of M4—12					
Single axis accuracy specification	uni-directional positioning	Within 5μm				
	Repeatability positioning	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.