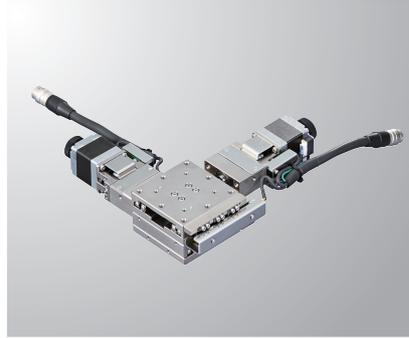


XY-axis Linear Ball Guide: PMG413/PMG513/PMG615/PMG715

PMG615-L



PMG615-R



RoHS

※A dedicated hex wrench for fixing bottom axis of XY is attached.

Model Selection code Option code
PMG413-L05AL-C5

🔗 Cable P.1-207~
 🔗 Electrical specification P.1-037~

1 Table size

4	□40mm
5	□50mm
6	□60mm
7	□70mm

* Cannot choose 415, 515, 613, 713 in combination with **1** and **2**.

2 Travel length

13	13mm
15	15mm

4 Sensor voltage

05	5V
24	24V

* 05 [5V] for standard

5 Sensor logic

A	N.C.
B	N.O.
C	Limit sensor is N.C., ORG1 and ORG2 are N.O.

* The sensor voltage/logic is different, but the external form dimension is the same.
 * If you choose 24V, not available our controller DS102/112.

8 Cable option

※See page P.1-039~ for ORG2 compatible cable.

Code	Specification	Cable type
Blank	2m	D214-2-2E
1	2m One end loose	D214-2-2EK
2	4m	D214-2-4E
3	4m One end loose	D214-2-4EK
4	Only connector (Cable is not included)	—
5	Cable is not included (Standard)	—
6	Robot cable 2m	D214-2-2R
7	Robot cable 4m	D214-2-4R
8	Robot cable 4m one end loose	D214-2-4RK
9	Robot cable 2m one end loose	D214-2-2RK
M	Cable for electromagnetic brake	—
P	Cable for α step	—
U	Cable for servo motor	—

* 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 "blank, 2, 6 and 7" when connect with stepping motor controller(DS102/112).

[Note]
 Please check available cable from compatibility list.

Motor/cable products list	Motor code	Cable code
	C, D, E	Blank, 1~9
MA	M	
PA	P	
U	U	

3 6 Identification mark

L	Sensor cover position is R for X and Y-axis.
R	Sensor cover position is L for X and Y-axis.

* **3** and **6** are linked. Cannot choose L and R at the same time.

7 Motor option

Code	Specification
C	Standard
D	High-torque
E	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.
 * See page P.1-037~ for details of motor option.

SPEC

Model	PMG413-L05AL-C5	PMG513-L05AL-C5	PMG615-L05AL-C5	PMG715-L05AL-C5
(Opposite hand)	PMG413-R05AR-C5	PMG513-R05AR-C5	PMG615-R05AR-C5	PMG715-R05AR-C5
Mechanical specification	Travel length 13mm		15mm	
	40×40mm	50×50mm	60×60mm	70×70mm
	Feed screw (Ball screw) $\phi 6$ lead 1			
	Guide Linear ball guide			
	Main materials-Finishing Stainless—Opposite side of the end face finishing			
	1.0kg	1.2kg	1.7kg	1.8kg
Accuracy specification	Resolution (Pulse) $2\mu\text{m}$ (Full)/ $1\mu\text{m}$ (Half)			
	MAX speed 10mm/sec			
	9.5kgf [93.1N]	9.4kgf [92.1N]	9.3kgf [91.1N]	9.1kgf [89.2N]
	Perpendicularity Within $5\mu\text{m}$ /Full stroke			
Sensor	Limit sensor Installed			
	Origin sensor (ORG1) Installed			
	Slit origin sensor (ORG2) Installed Refer page P.1-039~			
	4 of M3—8		4 of M4—8	
Signate accuracy specification	Uni-directional positioning accuracy Within $6\mu\text{m}$			
	Repeatability positioning accuracy Within $\pm 0.5\mu\text{m}$			
	Lost motion Within $1\mu\text{m}$			
	Backlash Within $0.5\mu\text{m}$			
	Straightness Within $1\mu\text{m}$			
	Pitching/Yawing Within $15''$ / Within $10''$			

※ Might be changed specification due to motors P.1-213~.

X

XY

Z

Horizontal Z

XYZ

Goniometer

Rotary

Unit

Controller

Linear Ball

CAVE-X Linear ball

Cross Roller

Slide Guide

$\phi 40$

$\phi 50$

$\phi 60$

$\phi 70$

$\phi 80$

$\phi 100$

$\phi 120$

Other