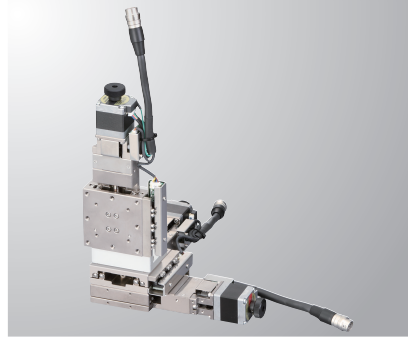


## XYZ-axis Linear Ball Guide: PMZG413/PMZG513/PMZG615/PMZG715

PMZG615-L



PMZG615-R



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

Model Selection code Option code

# PMZG 413-L05AG-C 5

1 2 3 4 5 6 7

● 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.

**7 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.

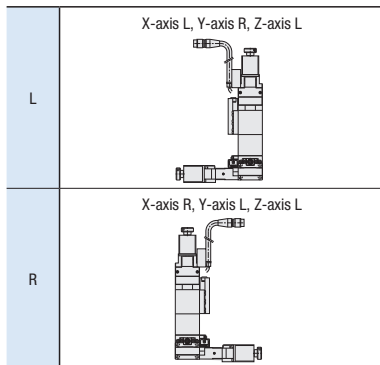
Not available non-cable.

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 Sensor cover location specification**



**6 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.

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	PMZG413-L05AG-C5	PMZG513-L05AG-C5	PMZG615-L05AG-C5	PMZG715-L05AG-C5
(Opposite hand)	PMZG413-R05AG-C5	PMZG513-R05AG-C5	PMZG615-R05AG-C5	PMZG715-R05AG-C5
Travel length	13mm		15mm	
Table size	40×40mm	50×50mm	60×60mm	70×70mm
Feed screw (Ball screw)	φ6 lead 1			
Guide	Linear ball guide			
Main materials-Finishing	Stainless—Opposite side of the end face finishing			
Weight	1.6kg	2.0kg	2.6kg	3.0kg
Resolution (Pulse)	2μm (Full)/ 1μm (Half)			
MAX speed	10mm/sec			
Load capacity (Excitation)	5kgf [49N]			
Perpendicularity	Within 5μm/ Full stroke (XY-axis)			
Limit sensor	Installed			
Origin sensor (ORG1)	Installed			
Slit origin sensor (ORG2)	Installed Refer page ● P.1-039~			
Provided screw (Hexagon-headed bolt)	4 of M3—8		4 of M4—8	

Slide axis accuracy specification	
Uni-directional positioning accuracy	Within 6μm
Repeatability positioning accuracy	Within ±0.5μm
Lost motion	Within 1μm
Backlash	Within 0.5μm
Straightness	1μm
Pitching/Yawing	Within 15"/ Within 10"

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