

[High Precision] Cross Roller Stages

Horizontal Surface Z-Axis Cross Roller

ZLPG (Micrometer Head Pitch 0.5)

ZLPCG (Feed Screw Pitch 0.5)

RoHS 10

ZLPG25
(Micrometer Head)

ZLPCG25
(Feed Screw)

ZLPG40
(Micrometer Head)

ZLPCG40
(Feed Screw)

ZLPG40H
(Micrometer Head)

ZLPG60L
(Micrometer Head)

ZLPG60
(Micrometer Head)

ZLPCG60
(Feed Screw)

ZLPG80
(Micrometer Head)

ZLPCG80
(Feed Screw)

Material: Aluminum Alloy
Surface Treatment: Black Anodize

Ⓢ The height dimensions in () are the dimensions at the center of the travel distance.

Ⓢ Standard Stages Similar Products (available for limited sizes only): ZLLB

Part Number	Stage Surface	Travel Distance	Load Capacity	Travel Accuracy	Moment Capacity (N·m)			Moment Rigidity (°/N·cm)			Parallelism	Weight (kg)	Accessories		
					Pitching	Yawing	Rolling	Pitching	Yawing	Rolling			Type M-L	Quantity	
ZLPG ZLPCG (* only)	25*	25 x 25	±2	9.8	3 μm	0.7	0.5	0.5	4.08	2.50	2.37	50μm	0.06	SCB2-8	4
	40*	40 x 40	±3	19.6		2.3	1.5	2.0	1.96	1.63	0.97	100μm	0.20	SCB3-6	3
	40H	40 x 40	±3			3.6	2.2	2.4	1.03	0.52	0.6	0.20	SCB3-6		
	60L	60 x 60	±3			2.3	1.5	4.2	1.01	0.72	0.21	0.30	SCB4-10	4	
	60*	60 x 60	±5			6.2	4.1	6.2	0.11	0.23	0.17	0.60	SCB4-10		
80*	80 x 80	±5	29.4	3.8	2.5	6.3	0.55	0.22	0.06	1.00	SCB4-10				

- Ⓢ Micrometer Head Resolution 10μm/division * 1 ZLPCG60 (feed screw) load capacity is 29.4N.
- Ⓢ Knob Cover HDCVR13 (Sold Separately): increases diameter of Ø 13 micrometer knob. P.2035
- Ⓢ Extension Cover HDEXT13 (Sold Separately): extends Ø 13 micrometer head knob. P.2035
- Ⓢ The micrometer head is only for raising and lowering the positioning stage. The scale and the amount by which the positioning stage is raised and lowered will vary.

Application Example Part Number **ZLPG40**

[High Precision] Linear Ball Guide Stages

Horizontal Surface Z-Axis Low Profile

ZLTG (Micrometer Head Pitch 0.5)

ZLTCG (Feed Screw Pitch 0.5)

RoHS 10

ZLTG40

ZLTCG40

ZLTG60

ZLTCG60

ZLTG80

ZLTCG80

Material: Aluminum Alloy
Surface Treatment: Black Anodize

Ⓢ The height dimensions in () are the dimensions at the center of the travel distance. Ⓢ Feed Screw and Micrometer Head materials, see P.2102-2103.

Part Number	Stage Surface	Travel Distance	Load Capacity	Travel Accuracy	Moment Capacity (N·m)			Moment Rigidity (°/N·cm)			Parallelism (μm)	Weight (kg)	Accessories (4 pcs.)
					Pitching	Yawing	Rolling	Pitching	Yawing	Rolling			
ZLTG	40	40 x 40	±3	19.6	5	0.9	1.5	0.5	3.66	0.91	5.64	100	0.16 SCB3-6 0.24 SCB4-6 0.32 SCB4-6
	60	60 x 60					2.3	0.7	3.67	0.25	4.81		
	80	80 x 80					3.0	0.6	3.52	0.07	4.99		
ZLTCG	40	40 x 40	±3	29.4	5	0.9	1.5	0.5	3.66	0.91	5.64	100	0.14 SCB3-6 0.22 SCB4-6 0.30 SCB4-6
	60	60 x 60					2.3	0.7	3.67	0.25	4.81		
	80	80 x 80					3.0	0.6	3.52	0.07	4.99		

- Ⓢ Micrometer Head Resolution: 10μm/division
- Ⓢ The micrometer head is only for raising and lowering the positioning stage. The scale and the amount by which the positioning stage is raised and lowered will vary.

Part Number Example Part Number **ZLTG80**