

[High Precision] Z-Axis Cross Roller

Micrometer Head / Feed Screw

■Features: Suitable for highly accurate fine adjustment of horizontal surface of Z-axis.

■Horizontal Surface Z-Axis, Cross Roller

ZLPG (Micrometer Head Lead 0.5)

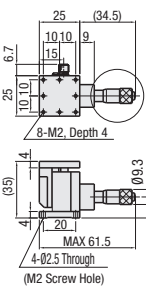


ZLPCG (Feed Screw Pitch 0.5)

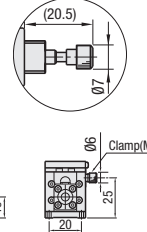


RoHS10

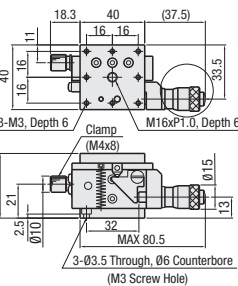
ZLPG25 (Micrometer Head)



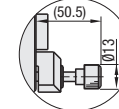
ZLPCG25 (Feed Screw)



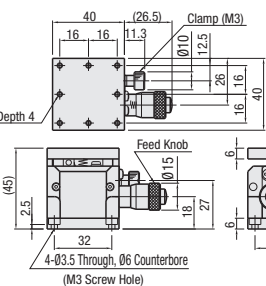
ZLPG40 (Micrometer Head)



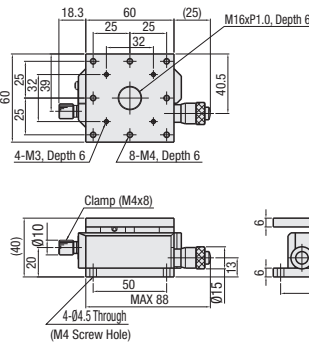
ZLPCG40 (Feed Screw)



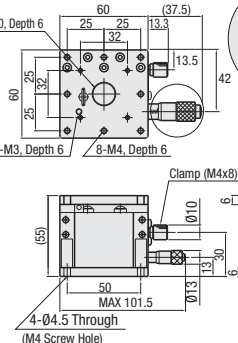
ZLPG40H (Micrometer Head)



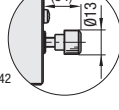
ZLPG60L (Micrometer Head)



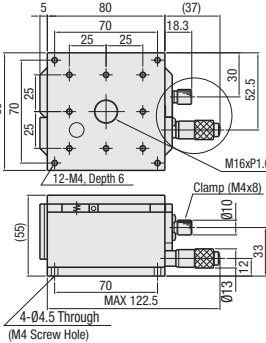
ZLPG60 (Micrometer Head)



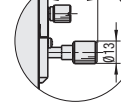
ZLPCG60 (Feed Screw)



ZLPG80 (Micrometer Head)



ZLPCG80 (Feed Screw)



Material: Aluminum Alloy

See the CAD data for details. Surface Treatment: Black Anodize

Standard Stages Similar Products (available for limited sizes only): ZLLB (P.1971)

Part Number		Stage Surface	Travel Distance	Load Capacity	Travel Accuracy	Moment Load Capacity (N · m)			Moment Rigidity (1/N · cm)			Parallelism	Weight	Accessory		Unit Price		
Type	No.	(mm)	(mm)	(N)	Straightness	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling		(kg)	Type	M-L	Quantity	ZLPG	ZLPCG
ZLPG ZLPCG (* only)	25*	25x25	±2	9.8	3μm	0.7	0.5	0.5	4.08	2.50	2.37	50μm	0.06	SCB2-8	4			
	40*	40x40	±3			2.3	1.5	2.0	1.96	1.63	0.97		0.20	SCB3-6	3			
	40H	40x40	±3	19.6		3.6	2.2	2.4	1.03	0.52	0.6	0.20	SCB3-6				-	
	60L	60x60	±3			2.3	1.5	4.2	1.01	0.72	0.21	0.30	SCB4-10				-	
	60*	60x60	±5	39.2* ¹		6.2	4.1	6.2	0.11	0.23	0.17	0.60	SCB4-10					
	80*	80x80	±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. ZLPG60 (feed screw) load capacity is 29.4N.

Knob Cover HDCVR13 (Sold Separately): Ø13 micrometer knob diameter can be increased by installing the cover. P2004

Extension Cover HDEXT13 (Sold Separately): Ø13 micrometer head knob can be extended. P2004

Though having a repeatability, the lift may misalign with the scale graduation depending on the stroke, due to the principle of leverage used for the structure. Use the micrometer head scale for reference only.



Ordering
Example

Part Number

ZLPG40

[High Precision] Z-Axis, Linear Guide Low Profile

Micrometer Head / Feed Screw

■Features: Low profile horizontal surface Z-Axis stages with 33mm profile height. Height can be kept low even for an XYZ configuration.

■Horizontal Surface Z-Axis, Linear Guide Low Profile

ZLTG (Micrometer Head Lead 0.5)

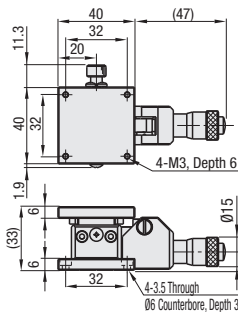


ZLTCG (Feed Screw Pitch 0.5)

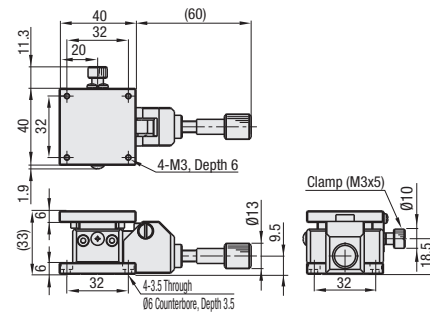


RoHS10

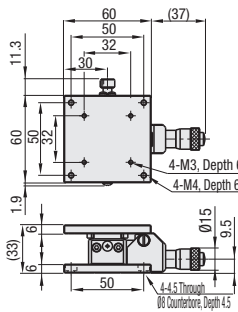
ZLTG40



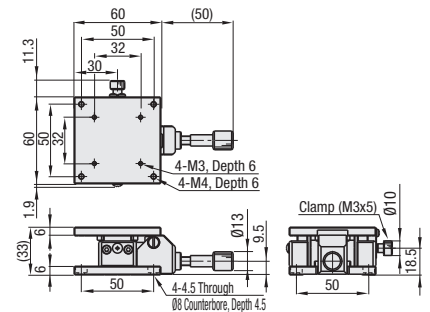
ZLTCG40



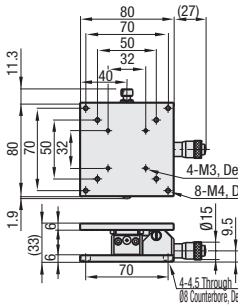
ZLTG60



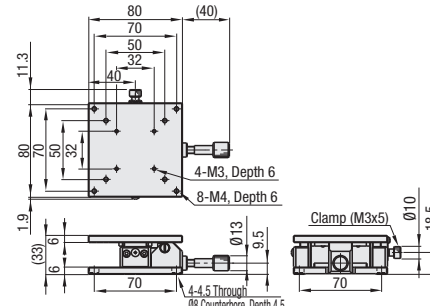
ZLTCG60



ZLTG80



ZLTCG80



See the CAD data for details.

For Feed Screw and Micrometer Head materials, see P2005, 2006.

Material: Aluminum Alloy

Surface Treatment: Black Anodize

Part Number		Stage Surface	Travel Distance	Load Capacity	Travel Accuracy	Moment Load Capacity (N · m)			Moment Rigidity (1/N · cm)			Parallelism	Weight	Accessory	Unit Price
Type	A	(mm)	(mm)	(N)	Straightness (μm)	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling	(μm)	(kg)	(4 pcs.)	
ZLTG	40	40x40	±3	19.6	5	0.9	1.5	0.5	3.66	0.91	5.64	100	0.16	SCB3-6	
	60	60x60	±3	29.4			2.3	0.7	3.67	0.25	4.81		0.24	SCB4-6	
	80	80x80	±3	3.0			0.6	3.52	0.07	4.99	0.32		SCB4-6		
ZLTCG	40	40x40	±3	19.6	5	0.9	1.5	0.5	3.66	0.91	5.64	100	0.14	SCB3-6	
	60	60x60	±3	29.4			2.3	0.7	3.67	0.25	4.81		0.22	SCB4-6	
	80	80x80	±3	3.0			0.6	3.52	0.07	4.99	0.30		SCB4-6		

Micrometer Head Resolution: 10μm/division

Though having a repeatability, the lift may misalign with the scale graduation depending on the stroke, due to the principle of leverage used for the structure. Use the micrometer head scale for reference only.



Ordering
Example

Part Number

ZLTG80