


[High Precision] Cross Roller Stages

Z-Axis

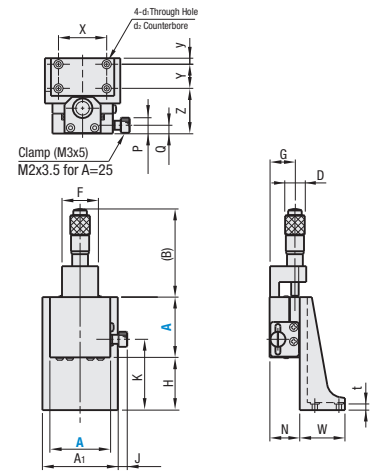
Travel per Rotation	Small	Medium	Large
Stroke	Short	Medium	Long
Load Capacity	Light	Medium	Heavy

Z-Axis



RoHS 10

ZPG



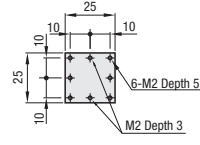
4-d Through Hole
d1 Counterbore

Clamp (M3x5)
M2x3.5 for A=25

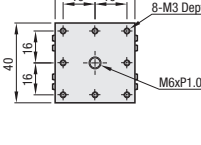
For a comparison chart with economical standard Stages, see P.2009.

Mounting Hole Dimensions of the Top Table

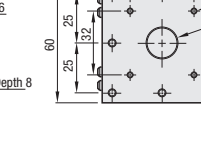
A25



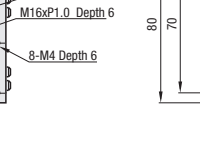
A40



A60



A80



Material: Aluminum Alloy
Surface Treatment: Black Anodize

Similar Standard Stage Products (available for limited sizes only): ZCRS P.2018.

Micrometer Head (ZPG)

Part Number Type	Front View										Side View										Top View										Accessories (4 pcs.) Type M-L
	A	A ₁	H	(B)	Travel Distance (mm)	F	K	J	D	G	N	W	t	P	Q	X	Y	y	Z	d ₁	d ₂										
ZPG	25	25	12.5	37.0	±3.2	11	22.5	6.8	9.3	12.5	15	20	5	6	4.5	20	10	2.5	22.5	2.5	—	SCB2-8									
	40	50	35.0	58.5	±6.5	24	47.0	6.3	13.0	16.8	20	30	4	10	5.5	32	16	4.0	30.0	3.5	6	SCB3-8									
	60	70	20.0	58.5	±6.5	24	37.5	6.3	13.0	16.8	20	45	7	10	5.5	50	25	5.0	35.0	4.5	8	SCB4-12									
	80	80	20.0	96.0	±12.5	24	45.0	11.3	18.0	16.5	20	45	7	10	5.5	50	25	5.0	35.0	4.5	8	SCB4-12									

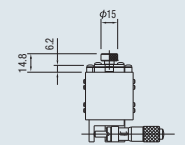
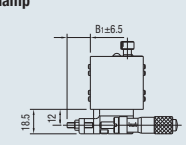
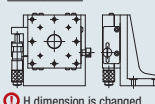
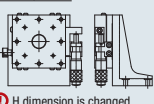
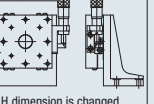
Performance

Part Number Type	Stage Surface (mm)	Load Capacity (N)	Travel Accuracy			Moment Capacity (N•m)			Moment Rigidity (N/cm)			Weight (kg)	
			Straightness	Pitching	Yawing	Pitching	Yawing	Rolling	Pitching	Yawing	Rolling		
ZPG	25	25 x 25	4.9	30"	30"	1.1	0.8	0.4	3.03	2.85	1.80	0.06	
	40	40 x 40	9.8	3 μm	25"	15"	2.7	2.2	2.0	0.38	0.42	0.28	0.20
	60	60 x 60	19.6				5.2	4.3	5.5	0.12	0.11	0.07	0.45
	80	80 x 80	49.0				19.2	15.1	17.3	0.05	0.05	0.04	0.80

Micrometer Head Resolution: 10μm/division

Part Number Example: **ZPG60**

Part Number Alterations: **ZPG80 - CU**

Alterations	Micrometer Head Position			Reinforced Clamp	
	Side up	Side Up and Right / Left Reversed	Side down	Disc Clamp	Opposed Clamp
Spec.	A H 25 12.5 40 35 60 20 80 50	A H 25 12.5 40 35 60 20 80 50	A H 25 12.5 40 20 60 20 80 20		
				Not applicable to 25 and 80 square	Applicable only when alteration C or CR is selected for ZPG40/60.
	H dimension is changed.	H dimension is changed.	H dimension is changed.	A disc clamping method that does not apply loads on the stage surface. Better position holding performance than the standard clamping method.	The side drive micrometer head is opposed by a screw (M4 x 25, pitch 0.5). Improves vibration resistance and has secure position holding performance.
	C	CR	CU	H	P
	Code	C	CR	CU	H


Mounting dimensions of micrometer head and clamps are different from those of standard products. Bracket shapes differ depending on the sizes. See the CAD data for detailed dimensions.

- Knob Cover HDCVR13 (Sold Separately): increases diameter of Ø 13 mm knob. P.2035
- Extension Cover HDEXT13 (Sold Separately): extends Ø 13 mm head knob. P.2035

[High Precision] Stages

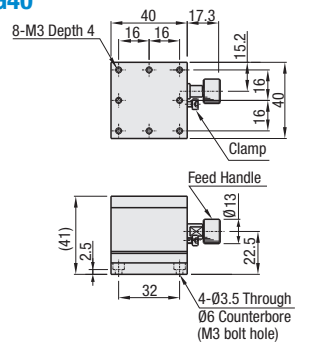
Horizontal Surface Z-Axis Stage Rack & Pinion Type / Cross Roller (Stainless Steel)

ZLFG25

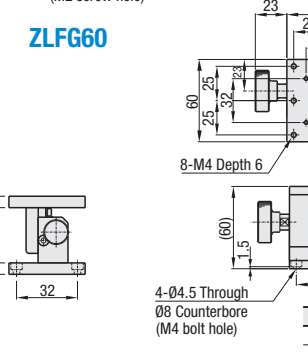


RoHS 10

ZLFG40



ZLFG60



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

Part Number Material Surface Treatment

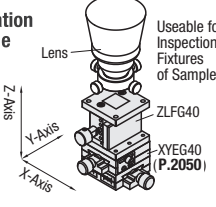
ZLFG25 Low Cadmium Brass Black Fluororesin Treatment

ZLFG40 Aluminum Alloy Black Anodize

ZLFG60 Aluminum Alloy Black Anodize

Resolution (Vernier Scale Indication): 0.1 mm/division

Application Example

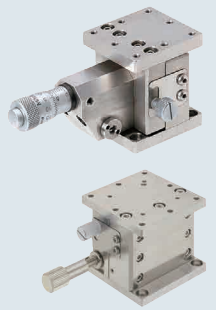


Useable for Inspection Fixtures of Samples.

Part Number Type	Stage Surface (mm)	Travel Distance (mm)	Travel per Knob Rotation (mm)	Load Capacity (N)	Travel Accuracy Straightness	Moment Load Capacity (N•m)			Weight (kg)	Accessories (4 pcs.) Type M-L
						Pitching	Yawing	Rolling		
ZLFG	25	25 x 25	±2.5	≈8	6.9	0.6	1.0	1.5	0.08	SCB2-8
	40	40 x 40	±5	≈13	9.8	0.6	1.0	1.5	0.12	SCB3-6
	60	60 x 60	±10	≈17	14.7	4.0	4.0	2.5	0.47	SCB4-6

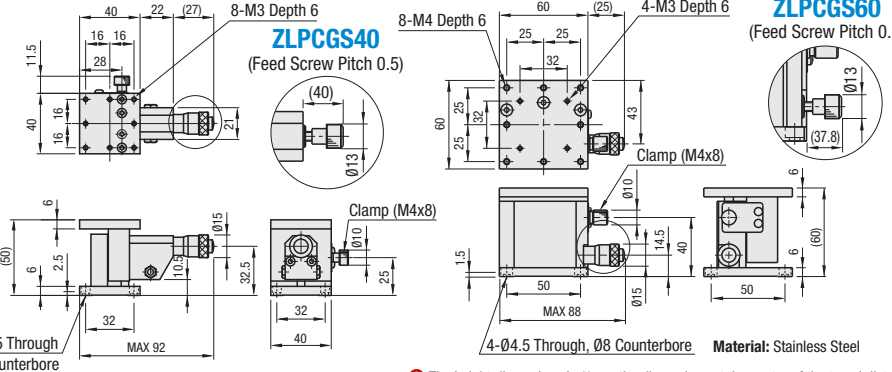
Part Number Example: **ZLFG60**

ZLPGS40 (Micrometer Head Pitch 0.5)

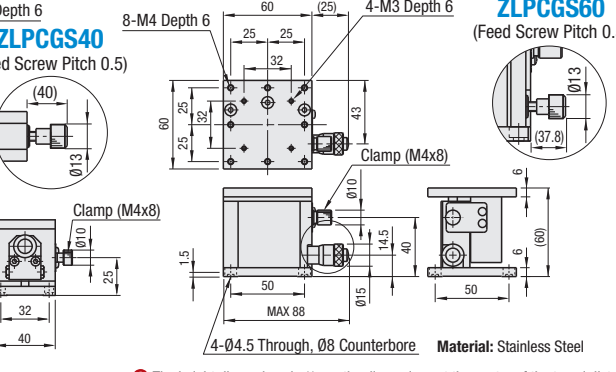


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ZLPGS60 (Micrometer Head Pitch 0.5)



ZLPCGS60 (Feed Screw Pitch 0.5)



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

Part Number Type	Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Travel Accuracy Straightness	Moment Load Capacity (N•m)			Moment Rigidity (N/cm)			Parallelism (μm)	Weight (kg)	Accessories (4 pcs.) Type M-L	
					Pitching	Yawing	Rolling	Pitching	Yawing	Rolling				
ZLPGS	40	40 x 40	±3	29.4	3 μm	1.8	1.1	1.2	0.81	0.22	0.30	100	0.49	SCB3-6
	60	60 x 60	±3	58.8		3.3	2.4	3.1	0.42	0.18	0.12		0.99	SCB4-6
ZLPCGS	40	40 x 40	±3	29.4	3 μm	1.8	1.1	1.2	0.81	0.22	0.30	100	0.47	SCB3-6
	60	60 x 60	±3	29.4		3.3	2.4	3.1	0.42	0.18	0.12		0.97	SCB4-6

- Micrometer Head Resolution: 10μm/division
- Knob Cover HDCVR15 (Sold Separately): increases diameter of Ø 15 micrometer knob. P.2011
- 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: **ZLPGS40**