

[Standard] Horizontal Surface Z-Axis, Feed Screw / Linear Ball Slide

Points on Similar Product Comparison | Parallelism: 100μm

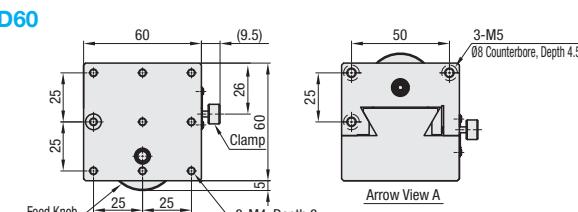
■ Features: Horizontal Surface Z-Axis Type with feed screw. This is superior to Rack & Pinion Type in load capacity. Space-saving is achieved by limiting the position of clamp/scale to the right side face.

■ Horizontal Surface Z-Axis, Feed Screw

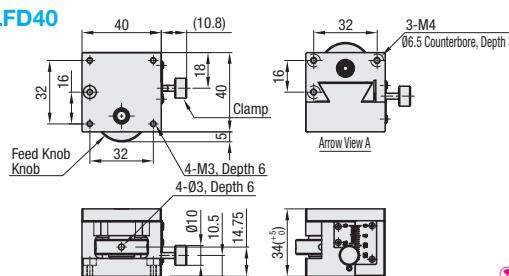


ZLFD60

RoHS10



ZLFD40



Clamp and scale are provided on the right side face in the front.
Fix the bottom plate at 3 points.
Counterclockwise rotation of the knob elevates the stage surface.

Material: Aluminum Alloy
Surface Treatment: Black Anodize

■ Z-Axis Stages (High Precision Stage Existing Product: ZLFG (P1972), ZLPG (P1973))

Part Number	Type	Stage Surface (mm)	Travel Distance (mm)	Travel per Rotation (mm)	Parallelism (μm)	Load Capacity (N)	Weight (kg)	Unit Price
ZLFD	40	40x40	±5	0.5	100	29.4	0.15	
	60	60x60	±7	0.5	100	98.1	0.37	

Ordering Example: Part Number ZLFD40

■ Features: Z-Axis Stages with the stage top rising/lowering horizontally. Best suited for setup changes and simple focus adjustments.

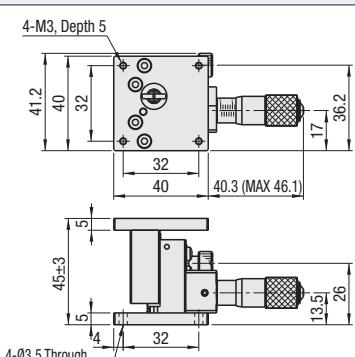
■ Horizontal Z-Axis, Linear Ball Slide



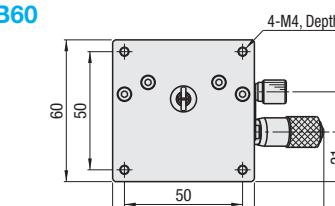
ZLLB60

Accessory: Stainless Steel Hex Socket Low Head Cap Screws ZLLB40 (M3-10, 4 pcs.), ZLLB60 (M4-12, 4 pcs.)

ZLLB40



ZLLB60



Material: Steel
Surface Treatment: Electroless Nickel Plating

■ Z-Axis Stages (High Precision Stage Existing Product: ZLPGS (P1972), ZLPG (P1973))

Part Number	Type	Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Resolution (μm/division)	Parallelism (μm)	Weight (kg)	Unit Price
ZLLB	40	40x40	±3.0	29.4	≈ 5	80	0.3	
	60	60x60	±5.0	49.0	≈ 10		0.7	

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 ZLLB40

[High Precision] Dovetail Slide, Rack & Pinion / Cross Roller

■ Features: Rack & Pinion Stages with horizontal surface moving vertically.

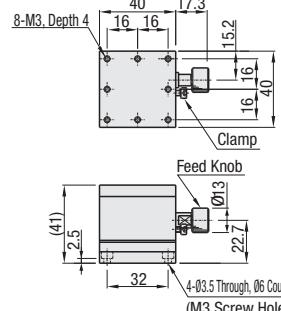
■ Horizontal Surface Z-Axis Stages, Rack & Pinion



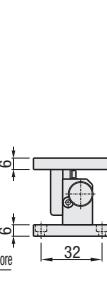
ZLFG25

RoHS10

ZLFG40



ZLFG60



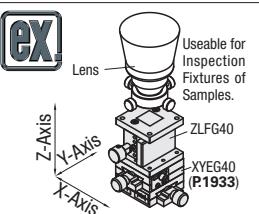
Part Number M Material S Surface Treatment
ZLFG25 Low Cadmium Brass Black Fluororesin Treatment
ZLFG40 Aluminum Alloy Black Anodize
ZLFG60 Aluminum Alloy Black Anodize

Vernier scale will be on the opposite side of clamp mounting side.
Forcibly tightening the clamp with a hex wrench or similar tool may make it more difficult to operate.
Use the maximum tightening torque for reference only: ZLFG25: 10 cNm, ZLFG40: 20 cNm.

Part Number	Type	Stage Surface (mm)	Travel Distance (mm)	Travel per Rotation (mm)	Load Capacity (N)	Travel Accuracy (μm)	Moment Load Capacity (N·m)	Weight (kg)	Accessory (4 pcs.)	Unit Price
ZLFG	25	25x25	±2.5	≈ 8	6.9	30μm	0.6	1.0	1.5	0.08 SCB2-8
	40	40x40	±5	≈ 13	9.8		0.6	1.0	1.5	0.12 SCB3-6
	60	60x60	±10	≈ 17	14.7		4.0	4.0	2.5	0.47 SCB4-6

Resolution (Vernier Scale Indication): 0.1mm/division

Ordering Example: Part Number ZLFG60



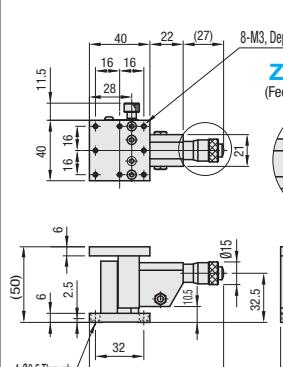
■ Features: Suitable for highly accurate fine adjustment of horizontal surface of Z-axis. ZLPGS has higher load capacity compared to the same size ZLPG (P1973).

■ Horizontal Surface Z-Axis, Cross Roller (Stainless Steel)

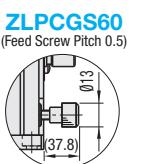
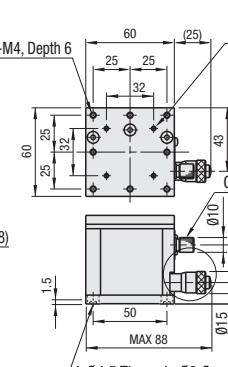


ZLPGS40 (Micrometer Head Lead 0.5)

RoHS10



ZLPGS60 (Micrometer Head Lead 0.5)



Material: Stainless Steel

See the CAD data for details.

■ Standard Stages Similar Products (available for limited sizes only): ZLB (P1971)

Part Number	Type	Stage Surface (mm)	Travel Distance (mm)	Load Capacity (N)	Travel Accuracy (μm)	Moment Load Capacity (N·m)	Moment Rigidity (N·cm)	Parallelism (μm)	Weight (kg)	Accessory (4 pcs.)	Unit Price
ZLPGS	40	40x40	±3	29.4	3μm	1.8	1.1	1.2	0.81	0.22	0.30
	60	60x60	±3	58.8		3.3	2.4	3.1	0.42	0.18	0.12
ZLPCGS	40	40x40	±3	29.4	3μm	1.8	1.1	1.2	0.81	0.22	0.30
	60	60x60	±3	29.4		3.3	2.4	3.1	0.42	0.18	0.12

Micrometer Head Resolution: 10μm/division

Knob Cover HDCVR15 (Sold Separately): Ø15 micrometer head knobs can be increased in diameter by installing the cover. 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 ZLPGS40