

Precision Labjacks | LJ/LJA

RoHS

Application Systems

Optics & Optical Coatings

Opto-Mechanics

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X Axis Stages

XY Axis Stages

Z Axis Stages

XZ Axis Stages

XYZ Axis Stages

Rotation Stages

Goniometer

Tilt Stages

Vacuum

Ball Bearing Guide

Crossed Roller

Dovetail

Lapping

V Groove Screw

Others

15 × 15 mm

25 × 25 mm

40 × 40 mm

60 × 60 mm

65 × 65 mm

80 × 80 mm

100 × 100 mm

120 × 120 mm

Others

Z axis precision stages that achieve extremely high parallelism using OptoSigma's unique adjustment technology.

- The top and bottom plates of the LJ model are made of steel (magnetic bases can be attached and detached), and the LJA models are made of aluminum.
- Pantograph mechanism provides a large adjustment range and high load capacity.
- Rotate the adjustment knob to adjust the height.
- Fine pitch lead screw enables good sensitivity.
- Stable locking is achieved with a split clamp system.



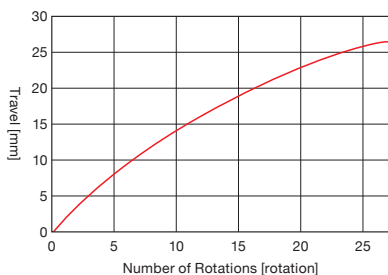
Guide

- ▶ Height is adjustable using the spacer kits (LJS).
Reference E120 Catalog Code W7056
- ▶ Use the platform (LJP) to mount larger samples.
Reference E118 Catalog Code W7057
- ▶ $\alpha(\beta)$ axis tilt stage (AIS) in the same size as the labjack can be mounted.
Reference E200 Catalog Code W7110

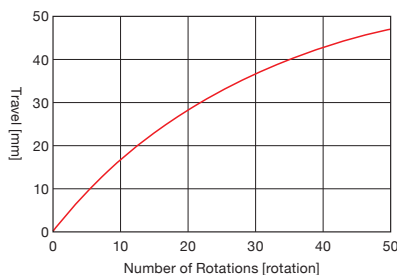


Travel Variation Per Adjustment Handle Rotation

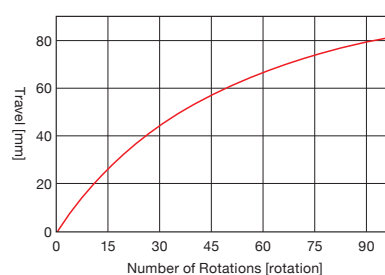
LJ/LJA-80133



LJ/LJA-10163



LJ/LJA-16223



Specifications

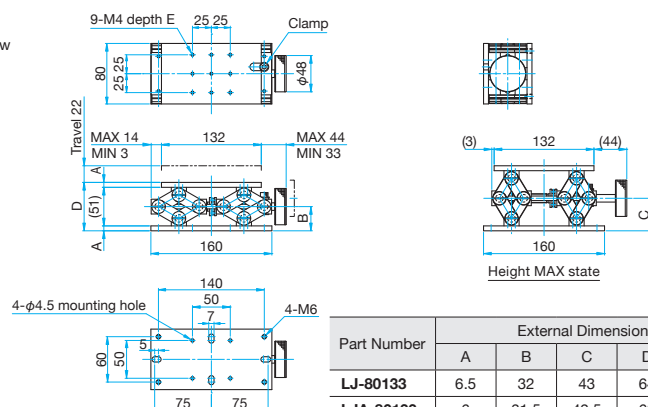
Part Number	LJ-80133	LJA-80133	LJ-10163	LJA-10163	LJ-16223	LJA-16223
Stage Size [mm]	80×132	80×132	100×160	100×160	160×220	160×220
Axes of Travel	Z axis					
Travel [mm]	22	22	40	40	70	70
Primary Material	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Finish	Super black chrome	Black anodized	Super black chrome	Black anodized	Super black chrome	Black anodized
Load Capacity [N]	196 (20.0kgf)	196 (20.0kgf)	245 (25.0kgf)	245 (25.0kgf)	294 (30.0kgf)	294 (30.0kgf)
Max. Moment Capacity	Pitch [N·m]	29.4	29.4	38	38	49
	Roll [N·m]	2.9	2.9	4	4	6
Parallelism [μm]	100	100	100	100	100	100
Weight [kg]	3.1	2.3	5.3	3.4	9.9	5.9



Outline Drawing

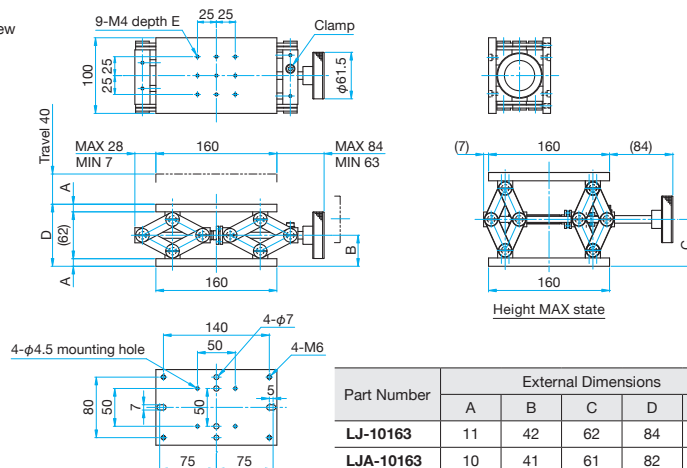
LJ/LJA-80133

- Hexagonal socket head cap screw
M6×12...4 screws,
One 5mm hex wrench



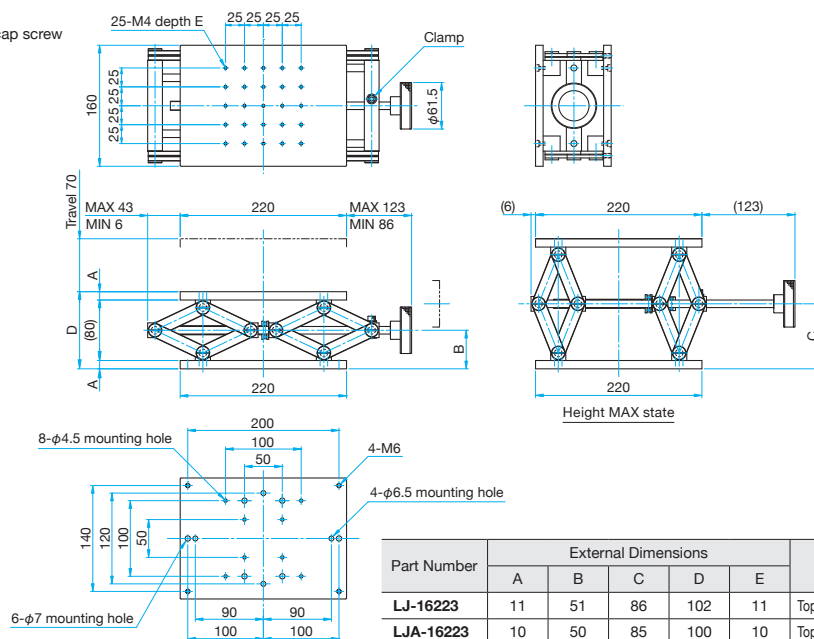
LJ/LJA-10163

- Hexagonal socket head cap screw
M6×16...4 screws,
One 5mm hex wrench



LJ/LJA-16223

- Hexagonal socket head cap screw
M6×16...4 screws,
One 5mm hex wrench



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