

X Axis Long Travel Leadscrew Translation Stages

Stage Size 160 × 160 mm Platform

LST

RoHS

Long travel, high precision, leadscrew stages for X-axis adjustment.

- Linear bearings are used for the positioning slide, and the leadscrew is either 2mm pitch (LST-16100/16200) or 5mm pitch (LST-16400).
- Suitable for relatively less frequent operations that require long travel.
- Convenient crank style handle for adjustment.
- Tapped holes on the table top allow use in combination with other fine drive stages.



Guide

- To use the LST series in XY configuration, contact Sales Division.

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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

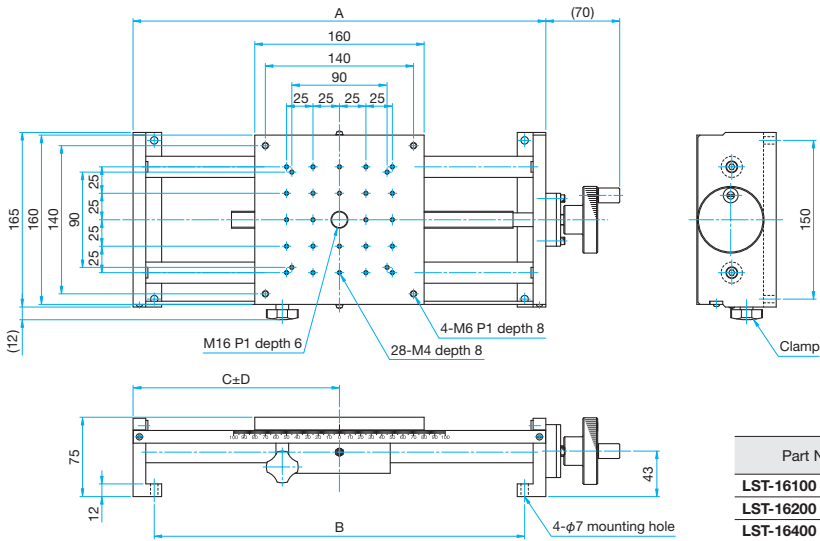
Specifications

| Part Number | METRIC | LST-16100 | LST-16100-M6 | LST-16200 | LST-16200-M6 | LST-16400 | LST-16400-M6 |
|----------------------|-------------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | INCH | — | LST-16100UU | — | LST-16200UU | — | LST-16400UU |
| Stage Size [mm] | | 160×160 | 160×160 | 160×160 | 160×160 | 160×160 | 160×160 |
| Axes of Travel | | X axis | | | | | |
| Travel [mm] | | ±50 | ±50 | ±100 | ±100 | ±200 | ±200 |
| Screw Pitch [mm] | | 2 | 2 | 2 | 2 | 5 | 5 |
| Guide Method | | Linear bearing | | | | | |
| Primary Material | | Aluminum | | | | | |
| Finish | | Black anodized | | | | | |
| Load Capacity [N] | | 98 (10.0kgf) | 98 (10.0kgf) | 98 (10.0kgf) | 98 (10.0kgf) | 98 (10.0kgf) | 98 (10.0kgf) |
| Travel Accuracy | Straightness [μm] | 10 | 10 | 10 | 10 | 20 | 20 |
| | Pitch [N·m] | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| Max. Moment Capacity | Roll [N·m] | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| | Pitch ["/N·cm] | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |
| Moment Stiffness | Roll ["/N·cm] | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | Parallelism [μm] | 100 | 100 | 150 | 150 | 200 | 200 |
| Weight [kg] | | 4.8 | 4.8 | 5.5 | 5.5 | 7.0 | 7.0 |



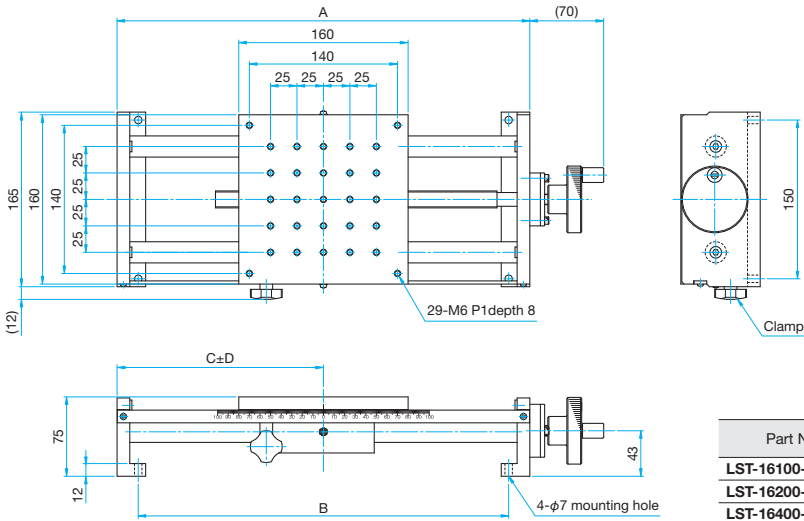
Outline Drawing

LST-16100/16200/16400 Hexagonal socket head cap screw M6x22...4 screws, Spring washers, Flat washers



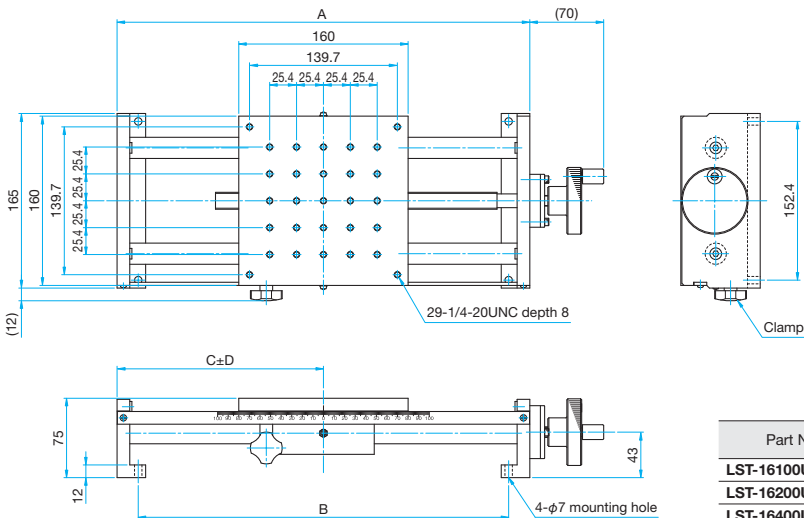
| Part Number | A (mm) | B (mm) | C (mm) | D (mm) |
|------------------|--------|--------|--------|--------|
| LST-16100 | 290 | 250 | 145 | 50 |
| LST-16200 | 390 | 350 | 195 | 100 |
| LST-16400 | 590 | 550 | 295 | 200 |

LST-16100-M6/16200-M6/16400-M6 Hexagonal socket head cap screw M6x22...4 screws, Spring washers, Flat washers



| Part Number | A (mm) | B (mm) | C (mm) | D (mm) |
|---------------------|--------|--------|--------|--------|
| LST-16100-M6 | 290 | 250 | 145 | 50 |
| LST-16200-M6 | 390 | 350 | 195 | 100 |
| LST-16400-M6 | 590 | 550 | 295 | 200 |

LST-16100UU/16200UU/16400UU Hexagonal socket head cap screw 1/4-20UNCx7/8...4 screws, Spring washers, Flat washers



| Part Number | A (mm) | B (mm) | C (mm) | D (mm) |
|--------------------|--------|--------|--------|--------|
| LST-16100UU | 290 | 254 | 145 | 50 |
| LST-16200UU | 390 | 355.6 | 195 | 100 |
| LST-16400UU | 590 | 558.8 | 295 | 200 |

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