

Motorized Translation Stages: T-LS



- **Integrated stage, motor, and controller**
- **Mount multiple stages in XY or XYZ configuration**
- **Daisy-chain and control multiple stages through a single serial port**
- **Manual control knob lets you move the stage at variable speeds**

Zaber's T-LS series products are computer controlled motorized translation stages with 0.1 μm resolution, available with either 13 mm or 28 mm travel. They mount together in XY configuration or XYZ configuration with our AB90 angle bracket.

Installation

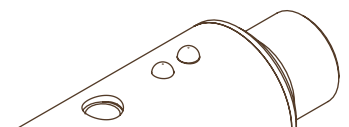
One or more stages can be connected to the RS-232 port (or USB port with optional adaptor) of any computer. Multiple devices, including any T-Series products, can be daisy-chained to a single port. Convenient 6-pin mini din cables on the stage allow for direct interconnection between devices in close proximity. For longer distances, we offer standard cable extensions.

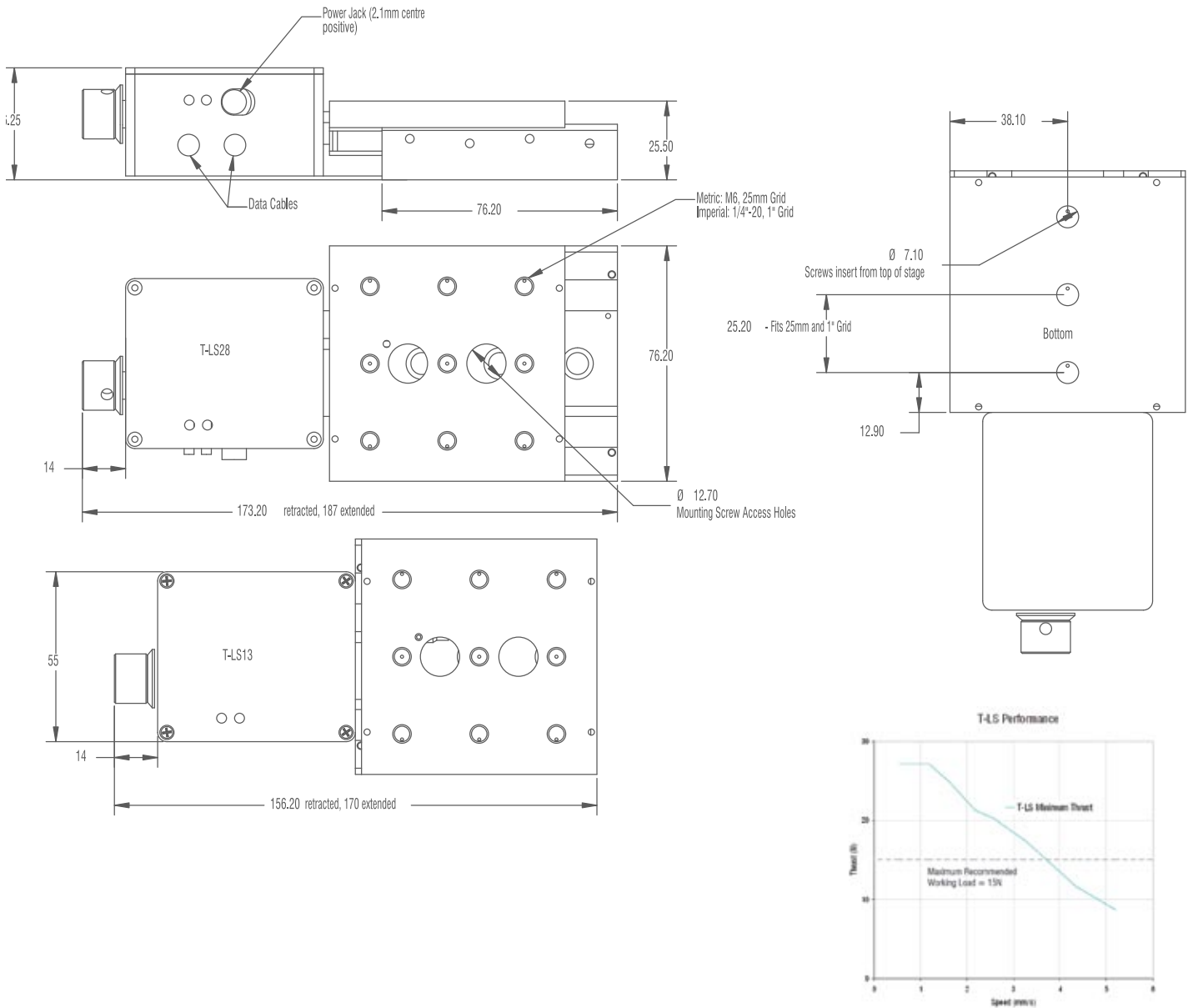
Computer Control

We provide software so you can easily control your Zaber devices. Simply select the device you want to move, select a command (like "move absolute"), and enter the desired position. After the move, the stage reports its new position. Built-in scripting allows you to easily set up complex automation routines. We also provide all of our source code so that you can customize our software for your application.

Manual Control

An optional knob permits smooth manual control at variable speeds in both directions. During a manual move the stage's position is constantly transmitted to the computer and is displayed by the software. The knob allows you to use the stage even without a computer.





Motorized Linear Stages: T-LS

Model	Travel Range (mm)	Microstep Size (Resolution) (μm)	Accuracy (μm)	Repeat-ability (μm)	Backlash (μm)	Minimum Speed ($\mu\text{m/s}$)	Maximum Speed (mm/s)	Maximum Centred Load (N)	Maximum Cantilever Load (N·cm)	Maximum Thrust (N)	Weight (kg)
T-LS13-I	13	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.57
T-LS13-M	13	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.57
T-LS13-SI	13	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.57
T-LS13-SM	13	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.57
T-LS28-I	28	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.59
T-LS28-M	28	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.59
T-LS28-SI	28	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.59
T-LS28-SM	28	0.099	+/- 10	< 0.4	< 4	0.93	4	100	125	15	0.59

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