

Miniature Motorized Linear Stages

Quick Links

Linear Actuators

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Linear Stages

- [*NEW* Miniature Motorized Linear Stages - T-LSM](#)
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Controllers

- [*NEW* Stepper Motor Controller - T-MCA](#)
- [Programmable Joystick Controller - T-JOY](#)

Accessories

- [All Accessories](#)

Quick Survey

What is your preferred way to make purchases?

- Emailing PO
- Ordering Online
- Phone in Credit Card
- Faxing PO
- Other

T-LSM Series



Similar Items



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Miniature Motorized Linear Stages : T-LSM Series Specifications

Group Specifications - T-LSM Series

Specification	Value	Alternate Unit
Microstep Size (Default Resolution)	0.047625 um	0.00188 mil
Repeatability	< 1 um	< 0.0394 mil
Backlash	< 2 um	< 0.0787 mil
Speed Resolution	.00022 mm/s	0.00001 in/s
Maximum Speed	8 mm/s	0.315 in/s
Maximum Force	40 N	9.0 lb
Maximum Continuous Force	25 N	5.6 lb
Maximum Centered Load	100 N	22.4 lb
Maximum Cantilever Load	300 N-cm	424.8 oz-in
Guide Type	Roller Bearing	
Stage Parallelism	< 25 um	< 1.0 mil
Power Supply	12-16 VDC	
Power Plug	2.1 mm center positive	
Maximum Current Draw	500 mA	
Linear Motion Per Motor Rev	.6096 mm	0.024 in
Motor Steps Per Rev	200	
Motor Type	NEMA 08	
Integrated Controller	Yes	
Controller Resolution	1/64 of a step	
Data Cable Connection	Minidin 6 pin M/F	
Mechanical Drive System	Precision leadscrew	
Limit or Home Sensing	Magnetic hall sensor	
Manual Control	Yes	
Axes of Motion	1	
Power and Com LEDs	Yes, Bi-Colour	
Mounting Interface	M3 threaded holes and M4 threaded center hole	
Stage Length	48.5 mm	1.909 in
Stage Width	44 mm	1.732 in
Stage Height	21 mm	0.827 in
Vacuum Compatible	No	
Operating Temperature Range	0 to 50 degrees C	
RoHS Status	Compliant	
CE Compliant	Compliant	

Comparison - T-LSM Series

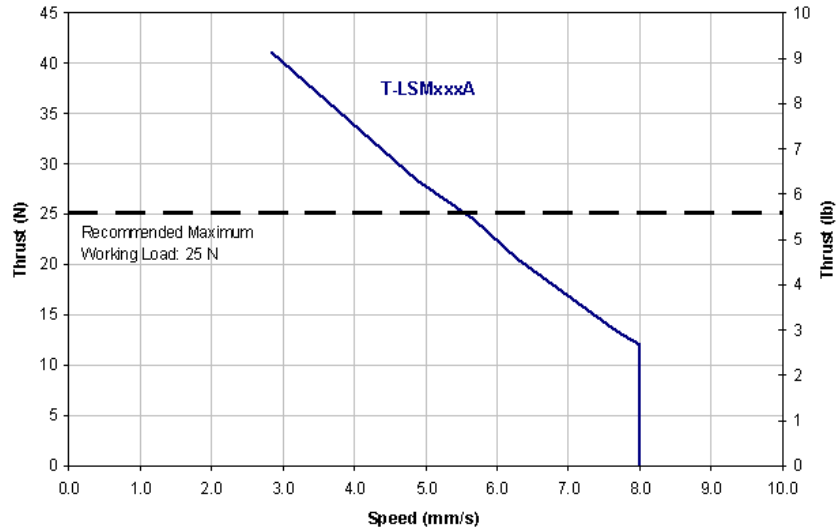
Part Number	Range	Accuracy	Overall Length	Overall Height
T-LSM025A	25.4 mm (1.000 in)	+/- 4 um (+/- 0.157 mil)	147.5 mm (5.807 in)	22 mm (0.866 in)

T-LSM025A-S	25.4 mm (1.000 in)	+/- 4 um (+/- 0.157 mil)	134 mm (5.276 in)	21 mm (0.827 in)
T-LSM050A	50.8 mm (2.000 in)	+/- 8 um (+/- 0.315 mil)	172.9 mm (6.807 in)	22 mm (0.866 in)
T-LSM050A-S	50.8 mm (2.000 in)	+/- 8 um (+/- 0.315 mil)	159.4 mm (6.276 in)	21 mm (0.827 in)
T-LSM100A	101.6 mm (4.000 in)	+/- 16 um (+/- 0.630 mil)	223.7 mm (8.807 in)	22 mm (0.866 in)
T-LSM100A-S	101.6 mm (4.000 in)	+/- 16 um (+/- 0.630 mil)	210.2 mm (8.276 in)	21 mm (0.827 in)
T-LSM200A	203.2 mm (8.000 in)	+/- 32 um (+/- 1.260 mil)	325.3 mm (12.807 in)	22 mm (0.866 in)
T-LSM200A-S	203.2 mm (8.000 in)	+/- 32 um (+/- 1.260 mil)	311.8 mm (12.276 in)	21 mm (0.827 in)

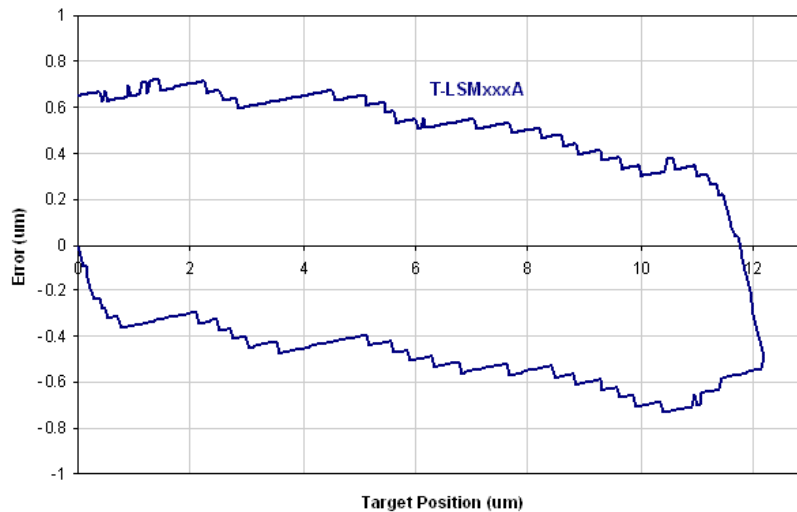
Notes

Thrust is a function of speed. See charts below for thrust, speed and accuracy specs.

T-LSM Performance



T-LSM Microstepping Error



For more detailed information, please consult the [Product Manual](#).