

All T-LA Series
T-LA13A
T-LA13A-S
T-LA28A
T-LA28A-S
T-LA60A
T-LA60A-S
Accessories

T-HLA28: Discontinued

Part Number	Power Supply	Lead Time	Price (USD) Weight
▼ T-HLA28-KT01U <i>Controller: Built-In</i>	15 V. Powers one axis	Discontinued	\$1,080.00 Contact Us
1 x T-HLA28	Discontinued		0.250 kg
1 x T-DSUB9	Serial adaptor		0.020 kg
1 x T-DC06	Data cable, 6 ft, for use with all T-Series and A-Series products		0.080 kg
1 x PS01-15V04	Power supply, 15 V DC 0.4 A out, 110 V AC in, plug for North America		0.080 kg
1 x T-USBDC	USB to serial converter, with mini-din 6 female plug		0.060 kg
▶ T-HLA28-KT03U <i>Controller: Built-In</i>	15 V. Powers multiple axes	Discontinued	\$1,080.00 Contact Us
▶ T-HLA28-KT04U <i>Controller: Built-In</i>	15 V. Powers multiple axes	Discontinued	\$1,110.00 Contact Us



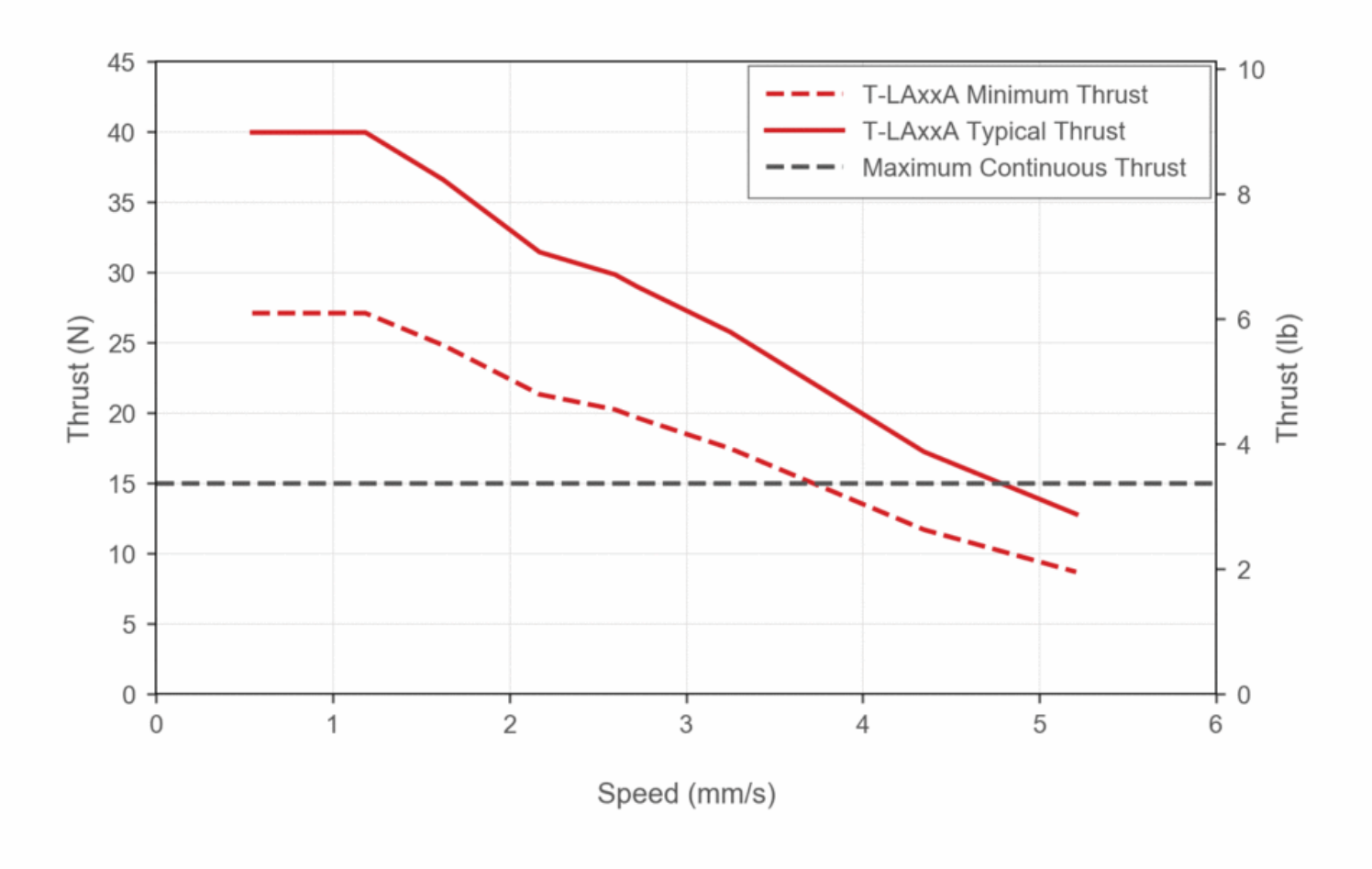
Specification	Value	Alternate Unit
Built-in Controller	Yes	
Microstep Size (Default Resolution)	0.09921875 µm	
Travel Range	28 mm	1.102 "
Accuracy (unidirectional)	24 µm	0.000945 "
Repeatability	< 1 µm	< 0.000039 "
Backlash	< 4 µm	< 0.000157 "
Maximum Speed	4 mm/s	0.157 "/s
Minimum Speed	0.0009302 mm/s	0.000037 "/s
Speed Resolution	0.0009302 mm/s	0.000037 "/s
Encoder Type	None	
Peak Thrust	40 N	9.0 lb
Maximum Continuous Thrust	30 N	6.7 lb
Communication Interface	RS-232	
Communication Protocol	Zaber Binary	
Maximum Current Draw	500 mA	
Power Supply	12-16 VDC	
Power Plug	2.1 mm centre positive	
Motor Temperature Rise	75 °C	
Linear Motion Per Motor Rev	0.6096 mm	0.024 "
Motor Steps Per Rev	96	
Motor Type	Stepper (2 phase)	

Specification	Value	Alternate Unit
Inductance	53 mH/phase	
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Limit or Home Sensing	Magnetic home sensor	
Manual Control	Yes	
Axes of Motion	1	
LED Indicators	Yes	
Mounting Interface	3/8-32 nut or 3/8" shank	
Vacuum Compatible	No	
Operating Temperature Range	0 to 75 °C	
RoHS Compliant	Compliant Version Available	
CE Compliant	Yes	
Weight	0.66 kg	1.455 lb

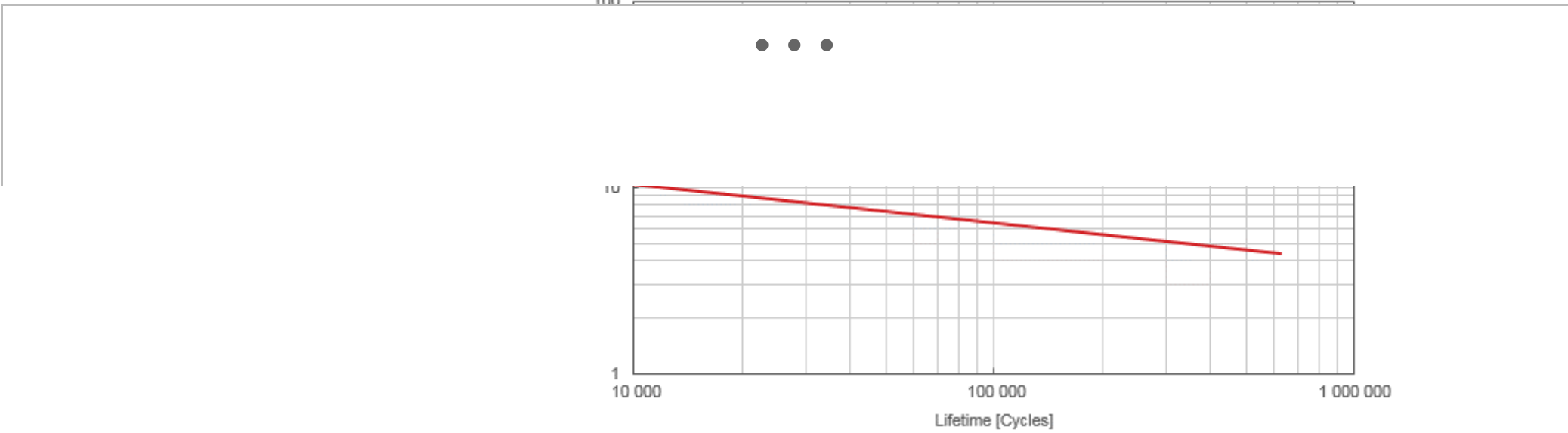
Thrust or torque is a function of speed. The values given above are maximums. These values cannot both be achieved simultaneously (i.e. at maximum speed, the unit will not produce maximum thrust).

- 1. The suffix "S" designates a short unit. Manual control and LED indicators have been sacrificed on these units in favour of reduced length. All other specifications are identical to the standard unit.
- 2. T-LA actuators don't require hold current to maintain their position.
- 3. The T-LA is more delicate and has a limited lifetime compared to the T-NA08. See the image below for a lifetime vs thrust comparison.

Thrust Speed Performance



T-LA and T-NA Actuator Lifetime at 2.7 mm/s



Note that the failure mode of T-LA devices is grease contamination by wear particles which effectively clog the lead-nut, although the lead screw and lead-nut remain in healthy condition. Extending the lead screw, cleaning it, and regreasing it with a silicon based grease effectively solves the problem; however, this may not be feasible in all applications. For more detailed information, please consult the [Installation Precautions](#).