

X-LSQ-E Series Datasheet



- 75, 150, 300, 450 and 600 mm travel
- 50 kg load capacity
- Up to 1 m/s speed and up to 100 N thrust
- Integrated recirculating ball bearing guide provides exceptional lifetime
- Encoder position feedback with slip/stall detection and automatic recovery
- Built-in controller; daisy-chains with any other Zaber products
- Custom versions available

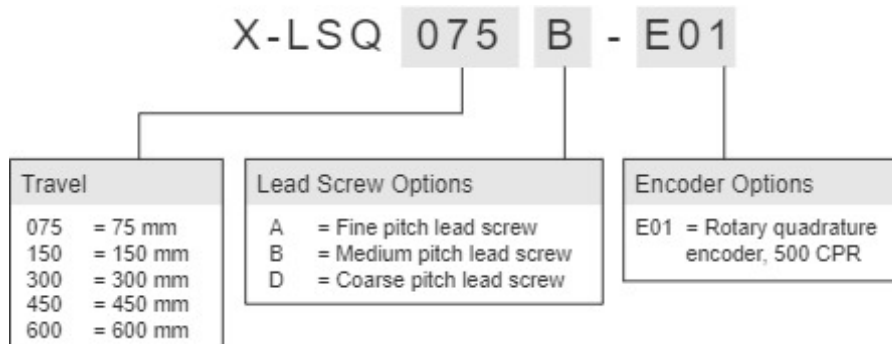
X-LSQ-E Series Overview

Zaber's X-LSQ-E Series products are computer controlled, motorized linear stages with a variety of lead screw pitches and travels. The built-in motor encoder allows closed-loop operation and slip/stall recovery features. They are stand-alone units requiring only a 48 V power supply, included with the kit version. An indexed knob provides convenient manual control for versatile operation even without a computer - press and hold to switch between velocity mode and position mode and push to stop.

These stages connect to the RS-232 port or USB port of any computer, and they can be daisy-chained with any other Zaber products. The daisy-chain also shares power, making it possible for multiple X-Series products to share a single power supply. Convenient locking, 4-pin, M8 connectors on the unit allow for secure connection between devices.

For more information visit: <https://www.zaber.com/products/linear-stages/X-LSQ-E>

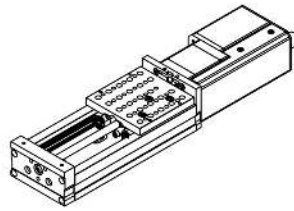
X-LSQ-E Series Part Numbering



X-LSQ-E Series Drawings

ZABER

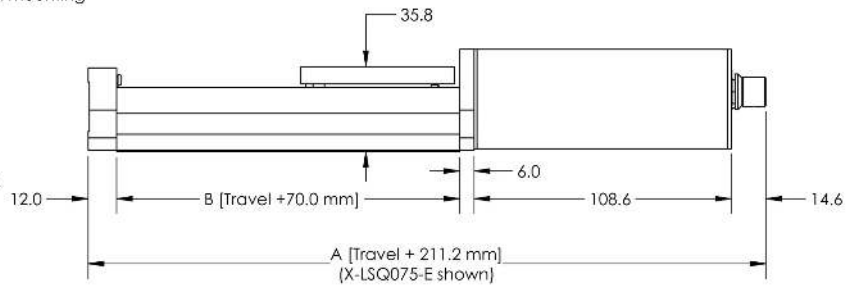
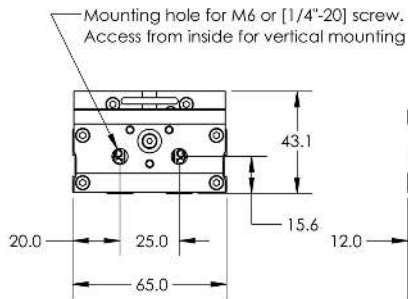
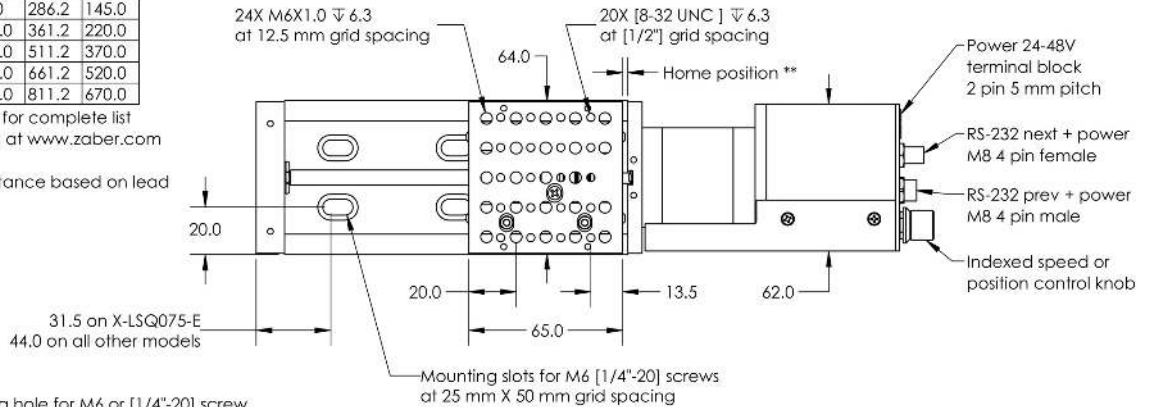
X-LSQ-E Motorized Linear Stage
 dimensions in mm



Model Number*	Travel	A	B
X-LSQ075-E	75.0	286.2	145.0
X-LSQ150-E	150.0	361.2	220.0
X-LSQ300-E	300.0	511.2	370.0
X-LSQ450-E	450.0	661.2	520.0
X-LSQ600-E	600.0	811.2	670.0

*See product page for complete list of available models at www.zaber.com

**Home position distance based on lead screw pitch:
 A - 2.0 +/- 0.4 mm
 B - 2.2 +/- 0.4 mm
 D - 2.8 +/- 0.4 mm

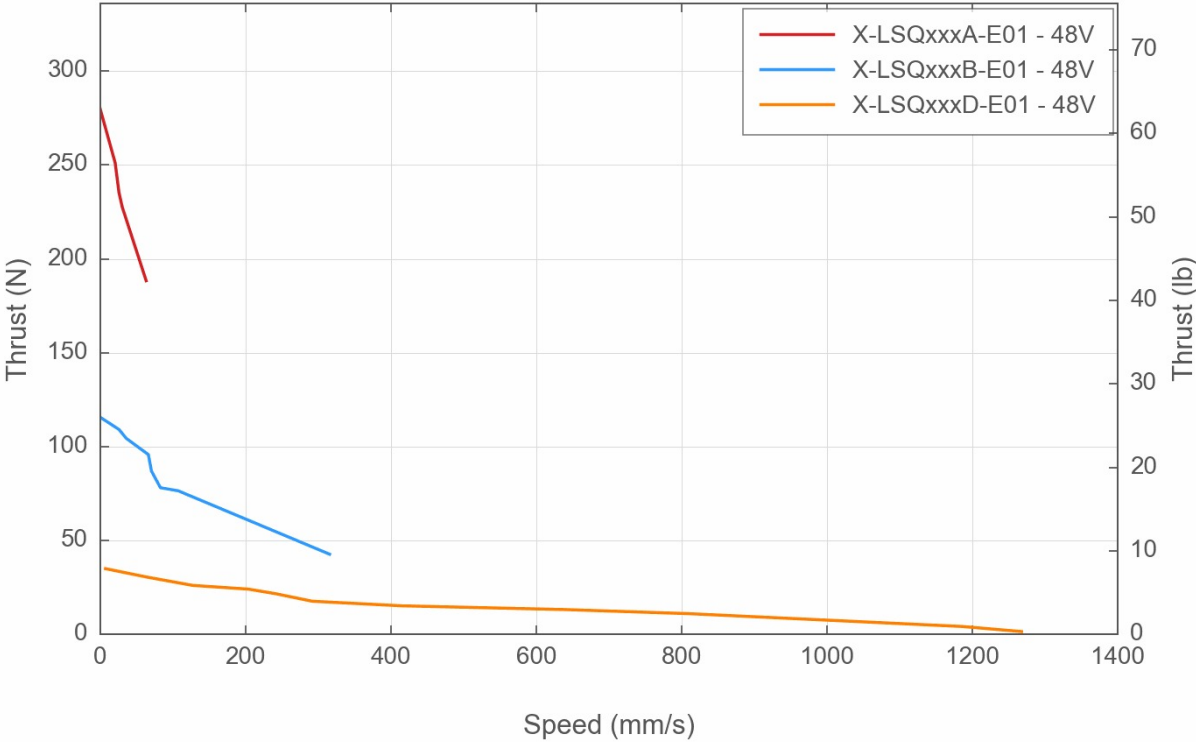


DRG 2372 801A

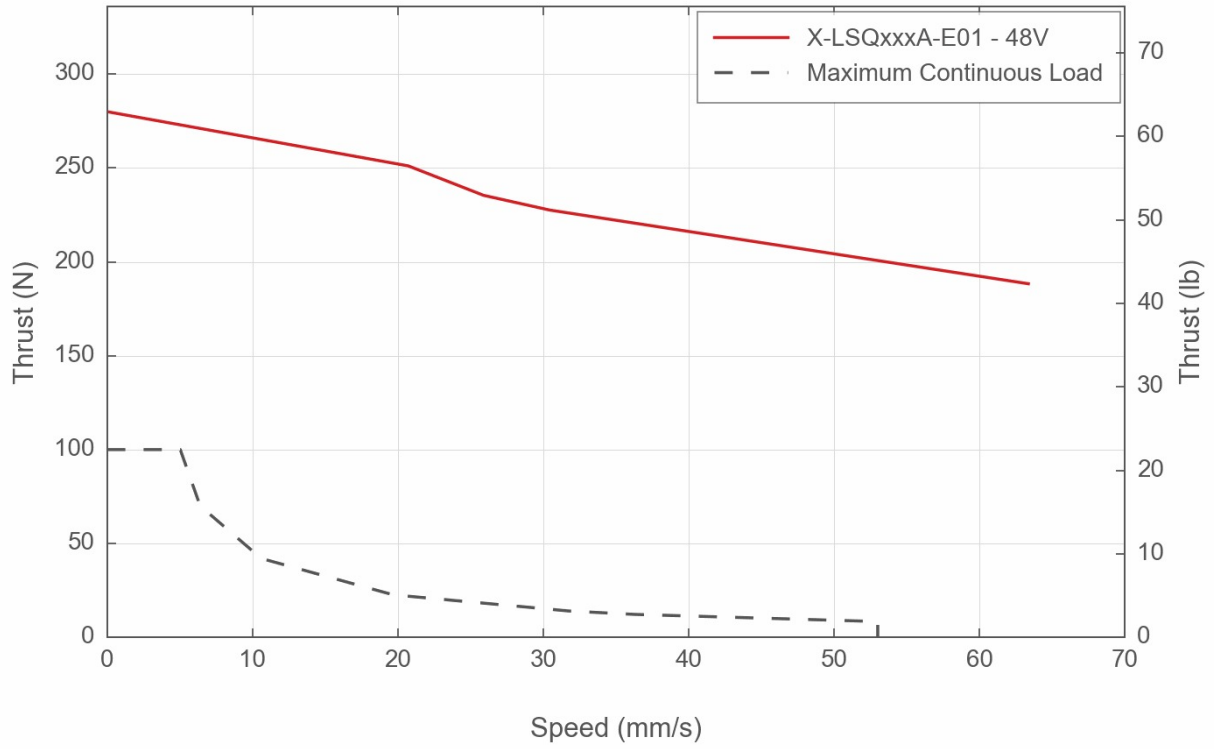
X-LSQ-E Series Specifications

X-LSQ-E Series Charts

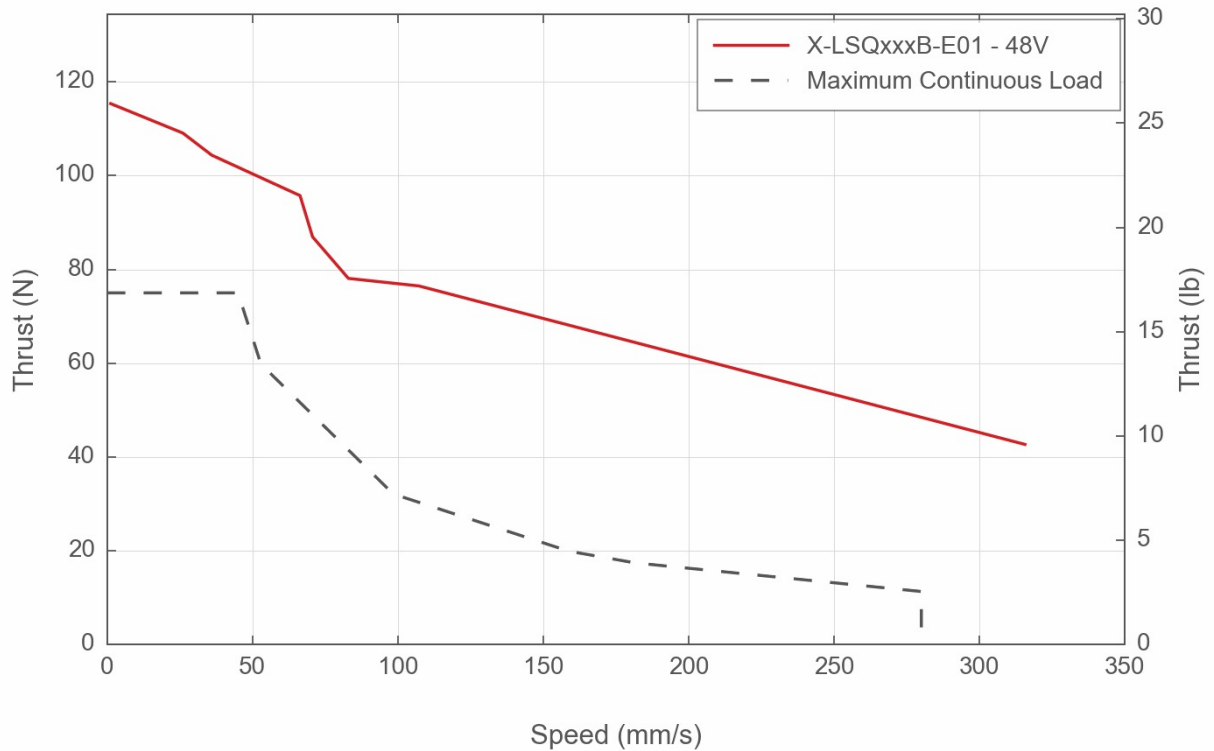
Thrust Speed Performance



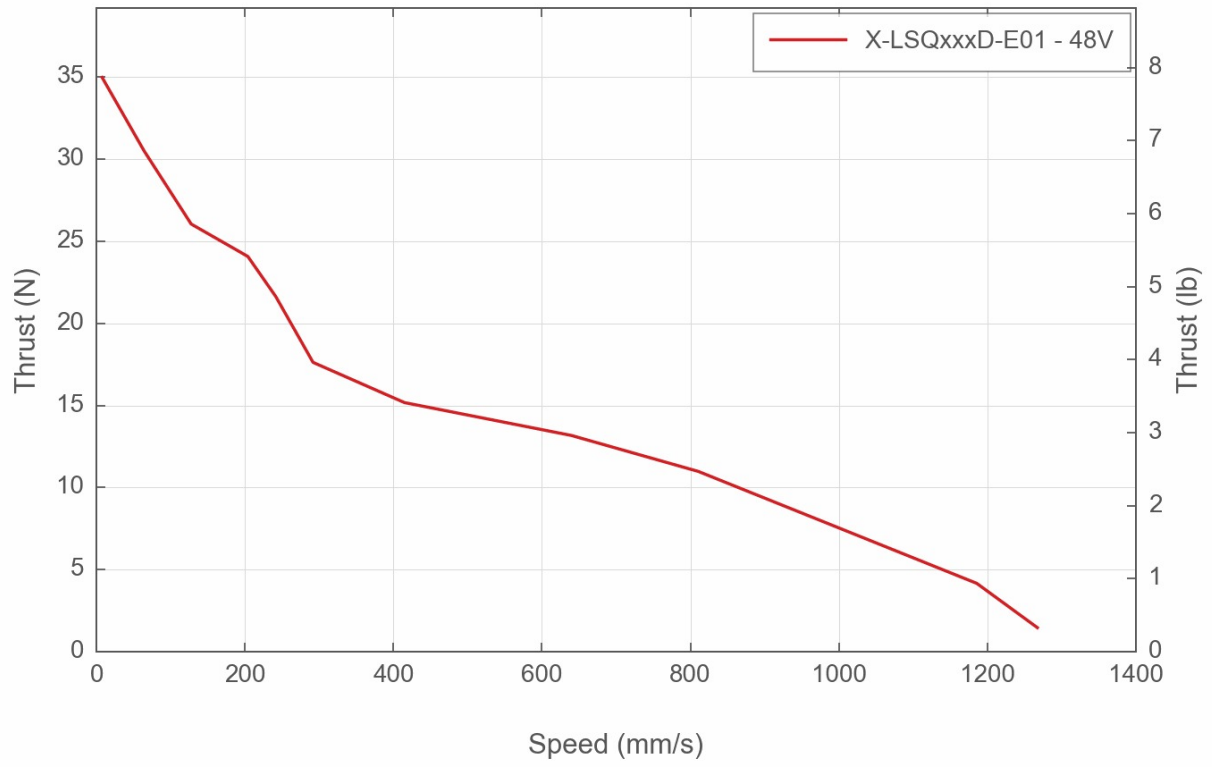
Thrust Speed Performance



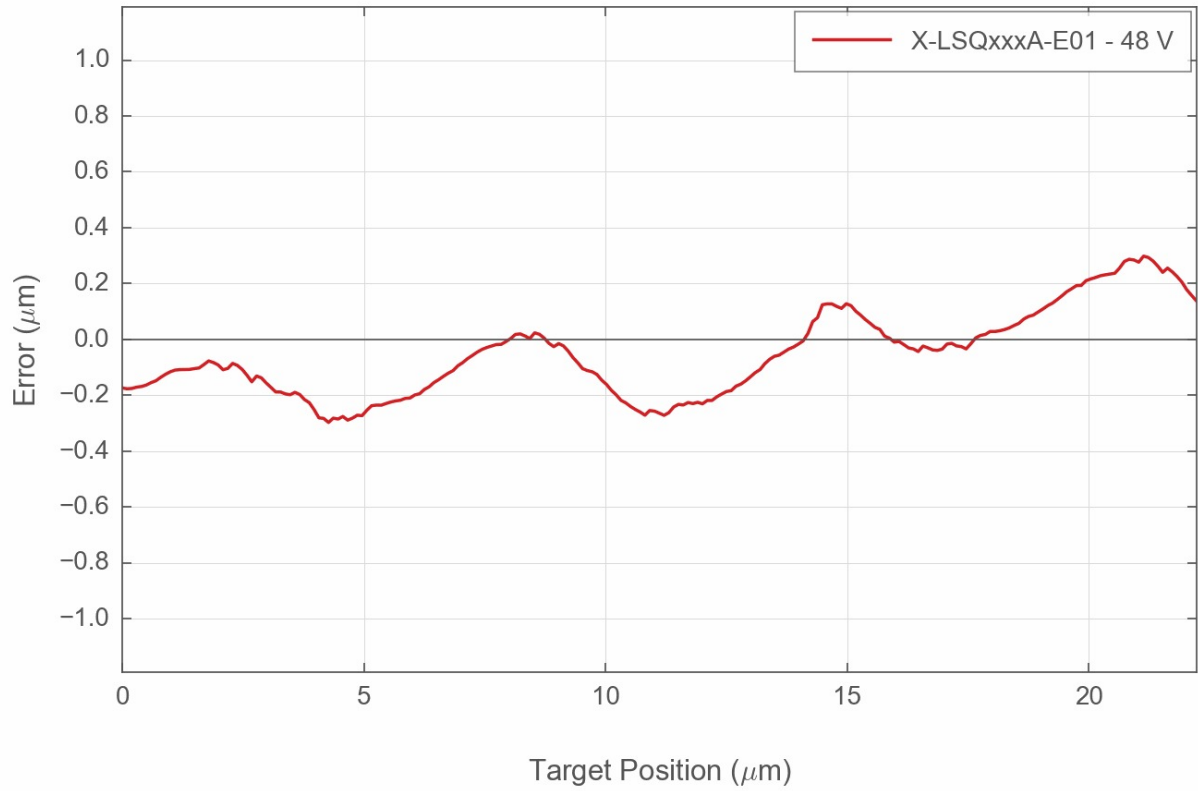
Thrust Speed Performance



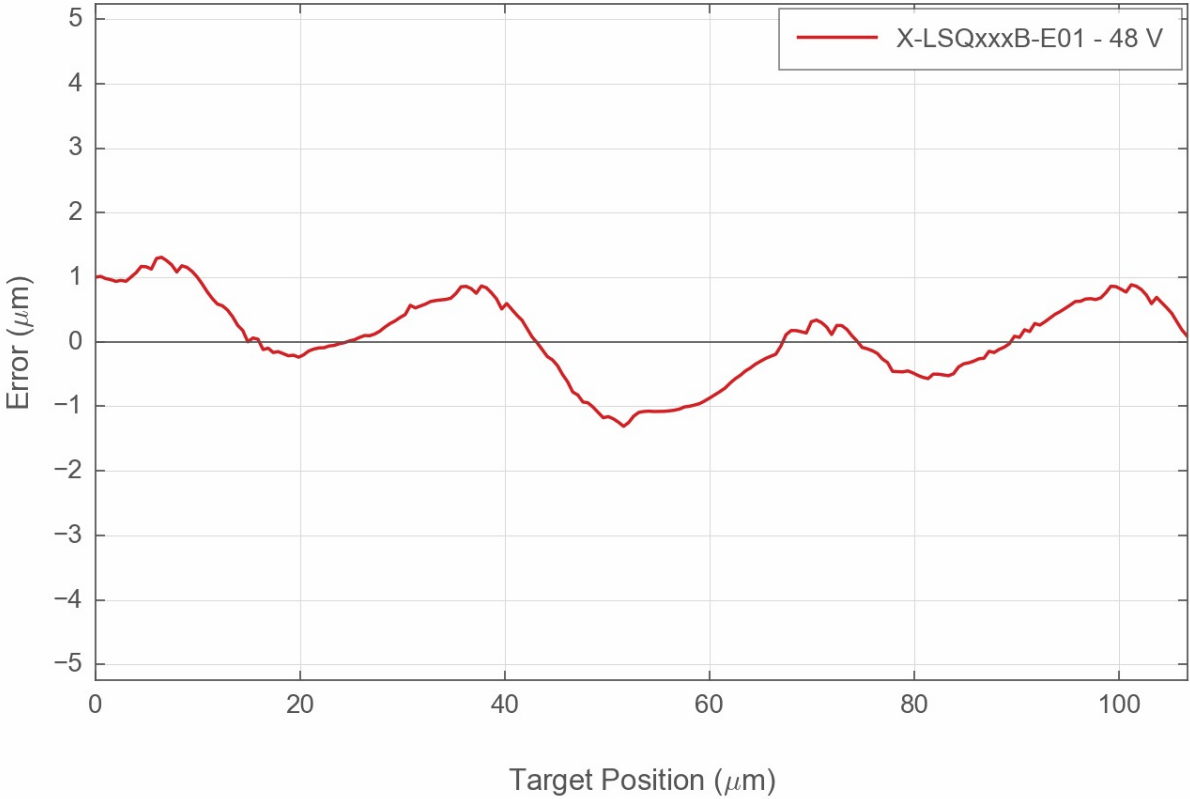
Thrust Speed Performance



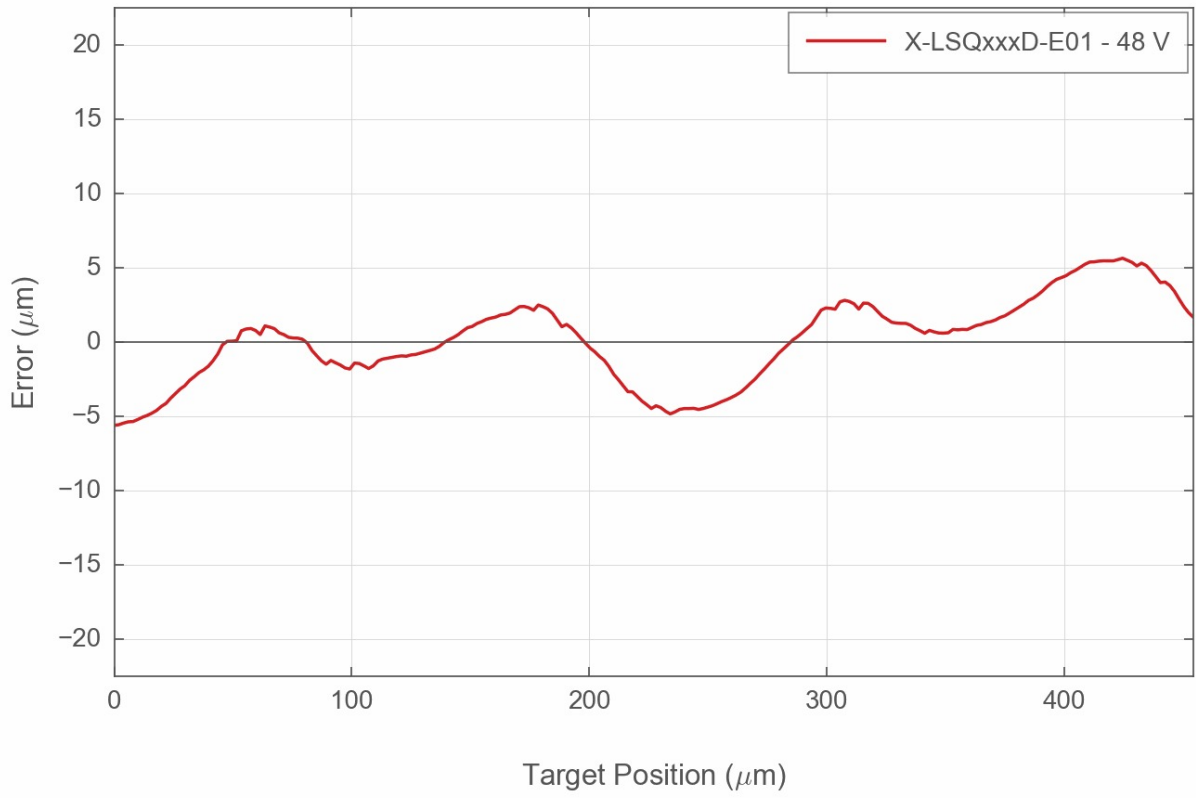
Typical Microstepping Accuracy



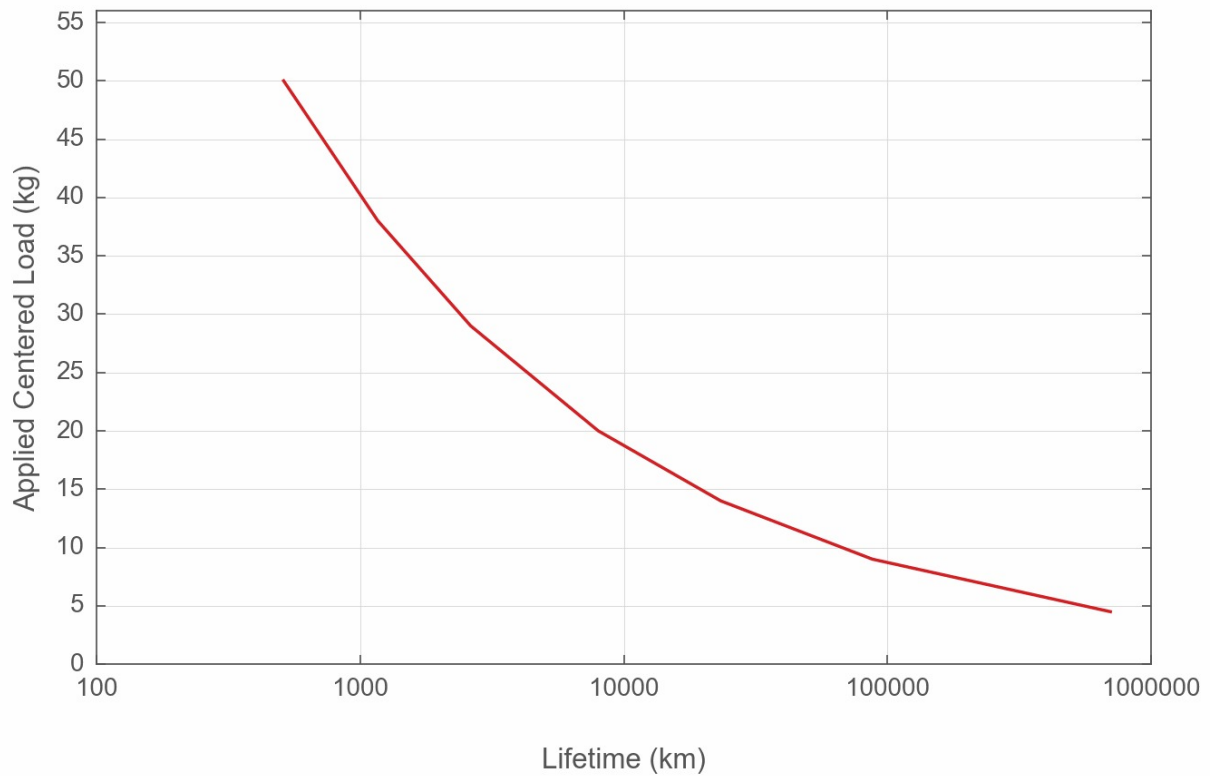
Typical Microstepping Accuracy



Typical Microstepping Accuracy



LSQ Linear Bearing Lifetime



Contact

Email: contact@zaber.com

Phone (toll free Canada/USA): 1-888-276-8033

Phone (direct): 1-604-569-3780

Fax: 1-604-648-8033

Zaber Technologies Inc.

#2 - 605 West Kent Ave. N.

Vancouver, British Columbia

Canada, V6P 6T7

<https://www.zaber.com>