

X-LRT-AEC Series Datasheet



- 100, 250, 500, 750, 1000, 1500 mm travel
- 20 μm full travel accuracy
- 300 kg load capacity
- Includes stainless steel dust covers
- Ball screw and lead screw configurations
- Optional integrated power-off brake for vertical applications
- Integrated linear encoders with 50 nm resolution provide slip/stall detection and position correction
- Built-in controller; daisy-chains with other Zaber products

X-LRT-AEC Series Overview

Zaber's X-LRT-AEC Series are computer-controlled, motorized linear stages designed for positioning high loads to within 20 μm accuracy. An integrated linear encoder combined with stage calibration provides high accuracy positioning over the full travel of the device. They have low pitch, roll, yaw and runout and long lifetime. Flexible dust covers keep out moderate debris. An indexed knob provides convenient manual control for versatile operation even without a computer. An optional power-off brake is available to enable vertical applications with backdrivable screws.

X-LRT-AEC devices are stand-alone units requiring only a standard 48 V power supply. They connect to the RS-232 port or USB port of any computer, and can be daisy-chained with any other Zaber products. Like all of Zaber's products, the X-LRT-AEC Series is designed to be 'plug and play' and very easy to set up and operate.

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

X-LRT-AEC Series Part Numbering & Options



X-LRT-AEC Series Drawings

- [X-LRT-AEC.png \(Drawing for the X-LRT-AEC\)](#)
- [X-LRT-BAEC.png \(Drawing for the X-LRT-BAEC\)](#)

X-LRT-AEC Series Specifications

Built-in Controller	
Accuracy (unidirectional)	20 μm (0.000787")
Backlash	< 15 μm (< 0.000591")
Encoder Type	Linear analog encoder
Encoder Resolution	50 nm
Communication Interface	RS-232
Communication Protocol	Zaber ASCII (Default)
Data Cable Connection	Locking 4-pin M8
Maximum Centered Load	2940 N (659.3 lb)
Maximum Moment (Pitch)	70 N-m (51.7 ft-lb)
Maximum Moment (Roll)	80 N-m (59.0 ft-lb)
Maximum Moment (Yaw)	70 N-m (51.7 ft-lb)
Vertical Runout	< 10 μm (< 0.000394")
Horizontal Runout	< 50 μm (< 0.001968")
Pitch	0.015° (0.262 mrad)
Roll	0.02° (0.349 mrad)
Yaw	0.03° (0.523 mrad)
Stiffness in Pitch	1400 N-m/° (12 $\mu\text{rad/N-m}$)
Stiffness in Roll	700 N-m/° (25 $\mu\text{rad/N-m}$)
Stiffness in Yaw	1200 N-m/° (15 $\mu\text{rad/N-m}$)
Power Supply	24-48 VDC
Power Plug	2-pin screw terminal
Maximum Current Draw	3600 mA
Motor Steps Per Rev	200
Motor Type	Stepper (2 phase)
Motor Rated Current	3000 mA/phase
Inductance	2 mH/phase
Default Resolution	1/64 of a step
Guide Type	Recirculating Ball Linear Guide
Limit or Home Sensing	Linear Encoder Index Mark
Manual Control	Indexed knob with push switch

Built-in Controller	
Axes of Motion	1
LED Indicators	Yes
Operating Temperature Range	0 to 50 °C
CE Compliant	Yes
Vacuum Compatible	No

Part Number	Microstep Size (Default Resolution)	Travel Range	Repeatability	Minimum Incremental Move
X-LRT0100AL-AE53C	0.124023438 µm	100 mm (3.937")	< 1 µm (< 0.000039")	500 nm
X-LRT0100BL-AE53C	0.49609375 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0100BL-BAE53C	0.49609375 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0100DL-AE53C	1.984375 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0100DL-BAE53C	1.984375 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0100HL-AE53C	0.390625 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0100HL-BAE53C	0.390625 µm	100 mm (3.937")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0250AL-AE53C	0.124023438 µm	250 mm (9.843")	< 1 µm (< 0.000039")	500 nm
X-LRT0250BL-AE53C	0.49609375 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0250BL-BAE53C	0.49609375 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0250DL-AE53C	1.984375 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0250DL-BAE53C	1.984375 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0250HL-AE53C	0.390625 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0250HL-BAE53C	0.390625 µm	250 mm (9.843")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0500AL-AE53C	0.124023438 µm	500 mm (19.685")	< 1 µm (< 0.000039")	500 nm
X-LRT0500BL-AE53C	0.49609375 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	2000 nm

Part Number	Microstep Size (Default Resolution)	Travel Range	Repeatability	Minimum Incremental Move
X-LRT0500BL-BAE53C	0.49609375 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0500DL-AE53C	1.984375 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0500DL-BAE53C	1.984375 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0500HL-AE53C	0.390625 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0500HL-BAE53C	0.390625 µm	500 mm (19.685")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0750AL-AE53C	0.124023438 µm	750 mm (29.528")	< 1 µm (< 0.000039")	500 nm
X-LRT0750BL-AE53C	0.49609375 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0750BL-BAE53C	0.49609375 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT0750DL-AE53C	1.984375 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0750DL-BAE53C	1.984375 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT0750HL-AE53C	0.390625 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT0750HL-BAE53C	0.390625 µm	750 mm (29.528")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT1000AL-AE53C	0.124023438 µm	1000 mm (39.370")	< 1 µm (< 0.000039")	500 nm
X-LRT1000BL-AE53C	0.49609375 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT1000BL-BAE53C	0.49609375 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	2000 nm
X-LRT1000DL-AE53C	1.984375 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT1000DL-BAE53C	1.984375 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	8000 nm
X-LRT1000HL-AE53C	0.390625 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT1000HL-BAE53C	0.390625 µm	1000 mm (39.370")	< 1.5 µm (< 0.000059")	1200 nm
X-LRT1500AL-AE53C	0.124023438 µm	1500 mm (59.055")	< 1 µm (< 0.000039")	500 nm
X-LRT1500BL-AE53C	0.49609375 µm	1500 mm (59.055")	< 1.5 µm (< 0.000059")	2000 nm
		1500 mm	< 1.5 µm	

Part Number	Microstep Size (Default Resolution)	Travel Range	Repeatability	Minimum Incremental Move
X-LRT1500BL-BAE53C	0.49609375 μm	(59.055")	(< 0.000059")	2000 nm
X-LRT1500DL-AE53C	1.984375 μm	1500 mm (59.055")	< 1.5 μm (< 0.000059")	8000 nm
X-LRT1500DL-BAE53C	1.984375 μm	1500 mm (59.055")	< 1.5 μm (< 0.000059")	8000 nm

Part Number	Maximum Speed	Minimum Speed	Speed Resolution	Peak Thrust
X-LRT0100AL-AE53C	45 mm/s (1.772"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT0100BL-AE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0100BL-BAE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0100DL-AE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0100DL-BAE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0100HL-AE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0100HL-BAE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0250AL-AE53C	45 mm/s (1.772"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT0250BL-AE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0250BL-BAE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0250DL-AE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0250DL-BAE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0250HL-AE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0250HL-BAE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0500AL-AE53C	45 mm/s (1.772"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT0500BL-AE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)

Part Number	Maximum Speed	Minimum Speed	Speed Resolution	Peak Thrust
X-LRT0500BL-BAE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0500DL-AE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0500DL-BAE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0500HL-AE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0500HL-BAE53C	240 mm/s (9.449"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0750AL-AE53C	45 mm/s (1.772"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT0750BL-AE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0750BL-BAE53C	175 mm/s (6.890"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT0750DL-AE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0750DL-BAE53C	700 mm/s (27.559"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT0750HL-AE53C	150 mm/s (5.905"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT0750HL-BAE53C	150 mm/s (5.905"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT1000AL-AE53C	28 mm/s (1.102"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT1000BL-AE53C	120 mm/s (4.724"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT1000BL-BAE53C	120 mm/s (4.724"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT1000DL-AE53C	500 mm/s (19.685"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT1000DL-BAE53C	500 mm/s (19.685"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT1000HL-AE53C	95 mm/s (3.740"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT1000HL-BAE53C	95 mm/s (3.740"/s)	0.000239 mm/s (0.000009"/s)	0.000239 mm/s (0.000009"/s)	1200 N (269.1 lb)
X-LRT1500AL-AE53C	13 mm/s (0.512"/s)	0.000076 mm/s (0.000003"/s)	0.000076 mm/s (0.000003"/s)	1200 N (269.1 lb)
X-LRT1500BL-AE53C	55 mm/s (2.165"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)

Part Number	Maximum Speed	Minimum Speed	Speed Resolution	Peak Thrust
X-LRT1500BL-BAE53C	55 mm/s (2.165"/s)	0.000303 mm/s (0.000012"/s)	0.000303 mm/s (0.000012"/s)	600 N (134.6 lb)
X-LRT1500DL-AE53C	225 mm/s (8.858"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)
X-LRT1500DL-BAE53C	225 mm/s (8.858"/s)	0.001212 mm/s (0.000048"/s)	0.001212 mm/s (0.000048"/s)	200 N (44.9 lb)

Part Number	Back-driving Force*	Maximum Continuous Thrust	Linear Motion Per Motor Rev	Mechanical Drive System
X-LRT0100AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT0100BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0100BL-BAE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0100DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0100DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0100HL-AE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0100HL-BAE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0250AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT0250BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0250BL-BAE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0250DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0250DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0250HL-AE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0250HL-BAE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0500AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT0500BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
	(± 30%) 420 N			Precision lead

Part Number	Back-driving Force*	Maximum Continuous Thrust	Linear Motion Per Motor Rev	Mechanical Drive System
X-LRT0500BL-BAE53C	(94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	screw
X-LRT0500DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0500DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0500HL-AE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0500HL-BAE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0750AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT0750BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0750BL-BAE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT0750DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0750DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT0750HL-AE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT0750HL-BAE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT1000AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT1000BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT1000BL-BAE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT1000DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT1000DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT1000HL-AE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT1000HL-BAE53C	(± 30%) 157 N (35.2 lb)	1200 N (269.1 lb)	5 mm (0.197")	Precision ball screw
X-LRT1500AL-AE53C	Non-back-driving	1200 N (269.1 lb)	1.5875 mm (0.062")	Precision lead screw
X-LRT1500BL-AE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw

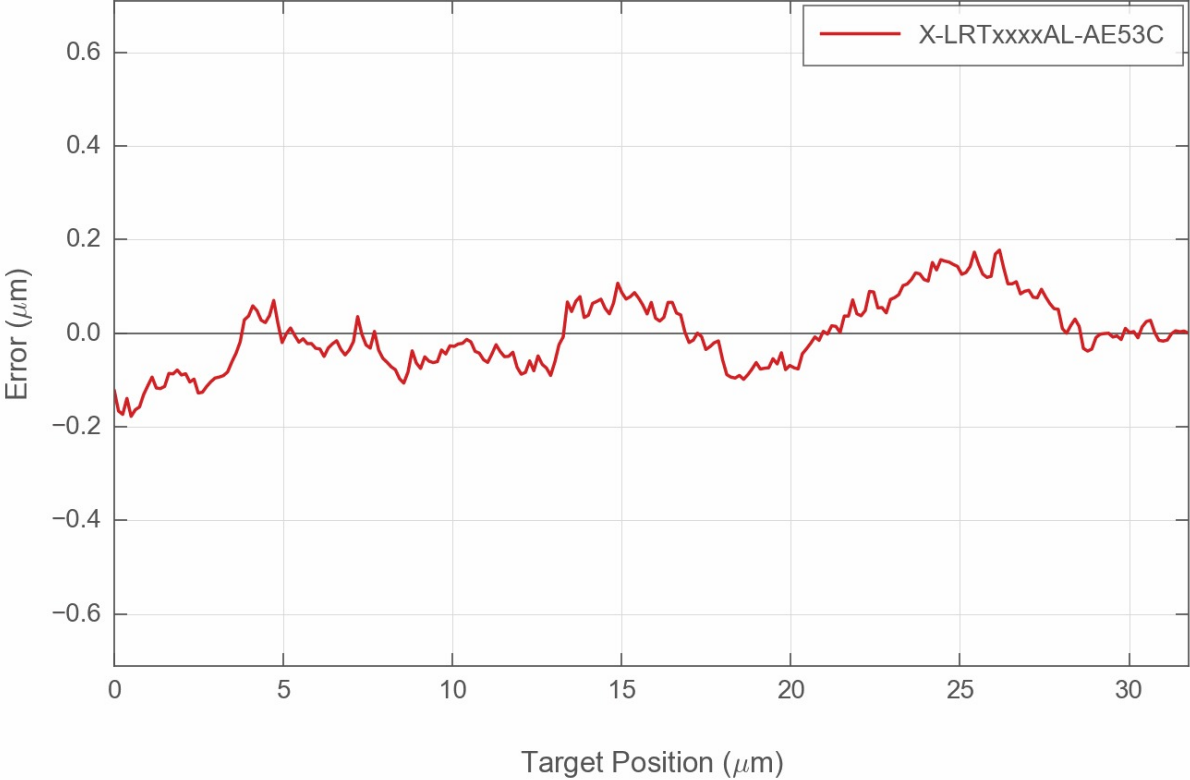
Part Number	Back-driving Force*	Maximum Continuous Thrust	Linear Motion Per Motor Rev	Mechanical Drive System
X-LRT1500BL-BAE53C	(± 30%) 420 N (94.2 lb)	600 N (134.6 lb)	6.35 mm (0.250")	Precision lead screw
X-LRT1500DL-AE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw
X-LRT1500DL-BAE53C	(± 30%) 40 N (9.0 lb)	180 N (40.4 lb)	25.4 mm (1.000")	Precision lead screw

Part Number	Maximum Axial Brake Force	Weight
X-LRT0100AL-AE53C		3.65 kg (8.047 lb)
X-LRT0100BL-AE53C		3.65 kg (8.047 lb)
X-LRT0100BL-BAE53C	600 N (134.9 lb)	4.276 kg (9.427 lb)
X-LRT0100DL-AE53C		3.65 kg (8.047 lb)
X-LRT0100DL-BAE53C	180 N (40.5 lb)	4.276 kg (9.427 lb)
X-LRT0100HL-AE53C		3.65 kg (8.047 lb)
X-LRT0100HL-BAE53C	1200 N (269.8 lb)	4.276 kg (9.427 lb)
X-LRT0250AL-AE53C		4.441 kg (9.791 lb)
X-LRT0250BL-AE53C		4.441 kg (9.791 lb)
X-LRT0250BL-BAE53C	600 N (134.9 lb)	5.067 kg (11.171 lb)
X-LRT0250DL-AE53C		4.441 kg (9.791 lb)
X-LRT0250DL-BAE53C	180 N (40.5 lb)	5.067 kg (11.171 lb)
X-LRT0250HL-AE53C		4.441 kg (9.791 lb)
X-LRT0250HL-BAE53C	1200 N (269.8 lb)	5.067 kg (11.171 lb)
X-LRT0500AL-AE53C		5.758 kg (12.694 lb)
X-LRT0500BL-AE53C		5.758 kg (12.694 lb)
X-LRT0500BL-BAE53C	600 N (134.9 lb)	6.384 kg (14.074 lb)
X-LRT0500DL-AE53C		5.758 kg (12.694 lb)
X-LRT0500DL-BAE53C	180 N (40.5 lb)	6.384 kg (14.074 lb)
X-LRT0500HL-AE53C		5.758 kg (12.694 lb)
X-LRT0500HL-BAE53C	1200 N (269.8 lb)	6.384 kg (14.074 lb)
X-LRT0750AL-AE53C		7.076 kg (15.600 lb)
X-LRT0750BL-AE53C		7.076 kg (15.600 lb)
X-LRT0750BL-BAE53C	600 N (134.9 lb)	7.702 kg (16.980 lb)
X-LRT0750DL-AE53C		7.076 kg (15.600 lb)

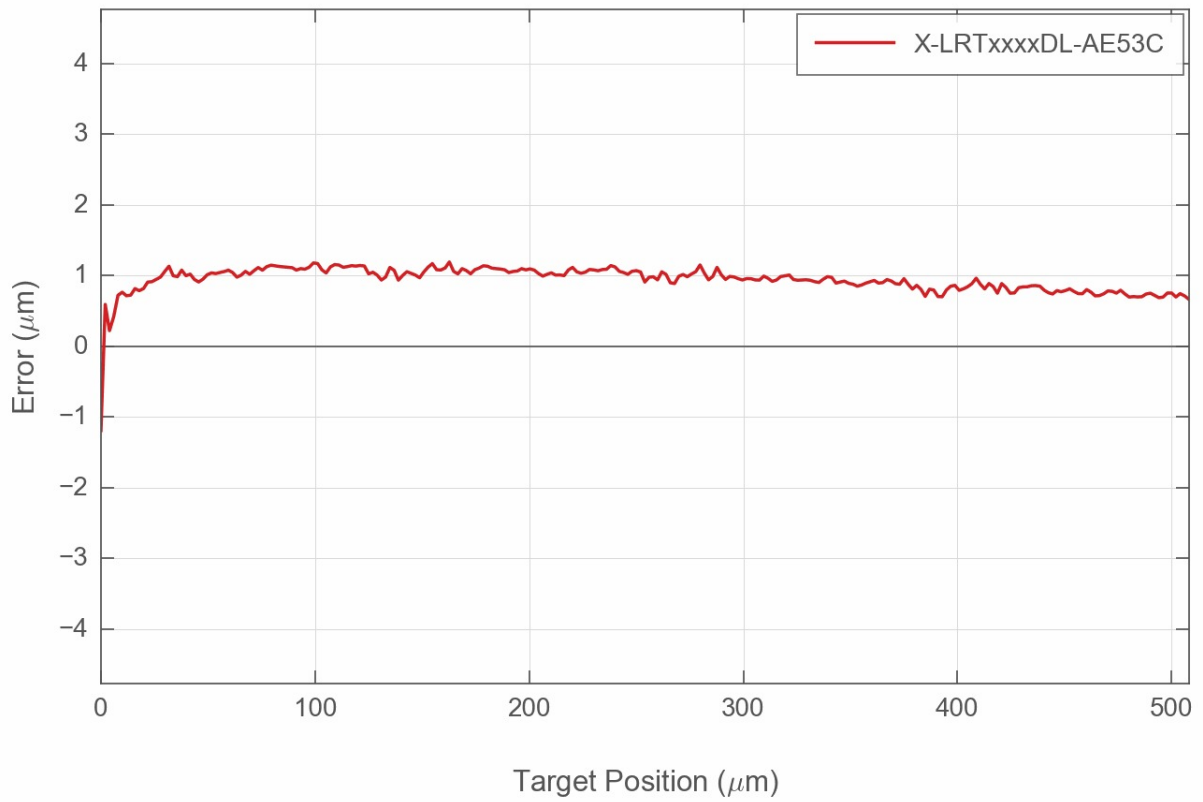
Part Number	Maximum Axial Brake Force	Weight
X-LRT0750DL-BAE53C	180 N (40.5 lb)	7.702 kg (16.980 lb)
X-LRT0750HL-AE53C		7.076 kg (15.600 lb)
X-LRT0750HL-BAE53C	1200 N (269.8 lb)	7.702 kg (16.980 lb)
X-LRT1000AL-AE53C		8.393 kg (18.503 lb)
X-LRT1000BL-AE53C		8.393 kg (18.503 lb)
X-LRT1000BL-BAE53C	600 N (134.9 lb)	9.019 kg (19.883 lb)
X-LRT1000DL-AE53C		8.393 kg (18.503 lb)
X-LRT1000DL-BAE53C	180 N (40.5 lb)	9.019 kg (19.883 lb)
X-LRT1000HL-AE53C		8.393 kg (18.503 lb)
X-LRT1000HL-BAE53C	1200 N (269.8 lb)	9.019 kg (19.883 lb)
X-LRT1500AL-AE53C		11.028 kg (24.313 lb)
X-LRT1500BL-AE53C		11.028 kg (24.313 lb)
X-LRT1500BL-BAE53C	600 N (134.9 lb)	11.654 kg (25.693 lb)
X-LRT1500DL-AE53C		11.028 kg (24.313 lb)
X-LRT1500DL-BAE53C	180 N (40.5 lb)	11.654 kg (25.693 lb)

X-LRT-AEC Series Charts

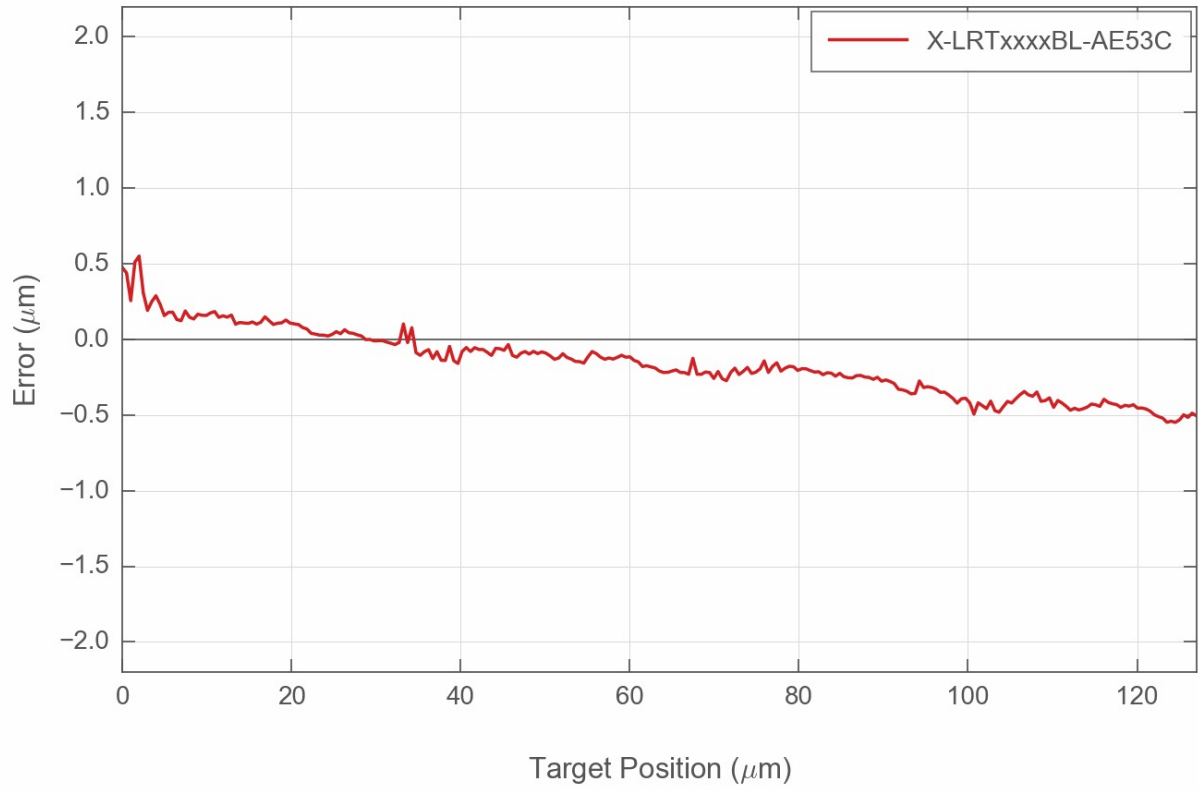
Typical Microstepping Accuracy



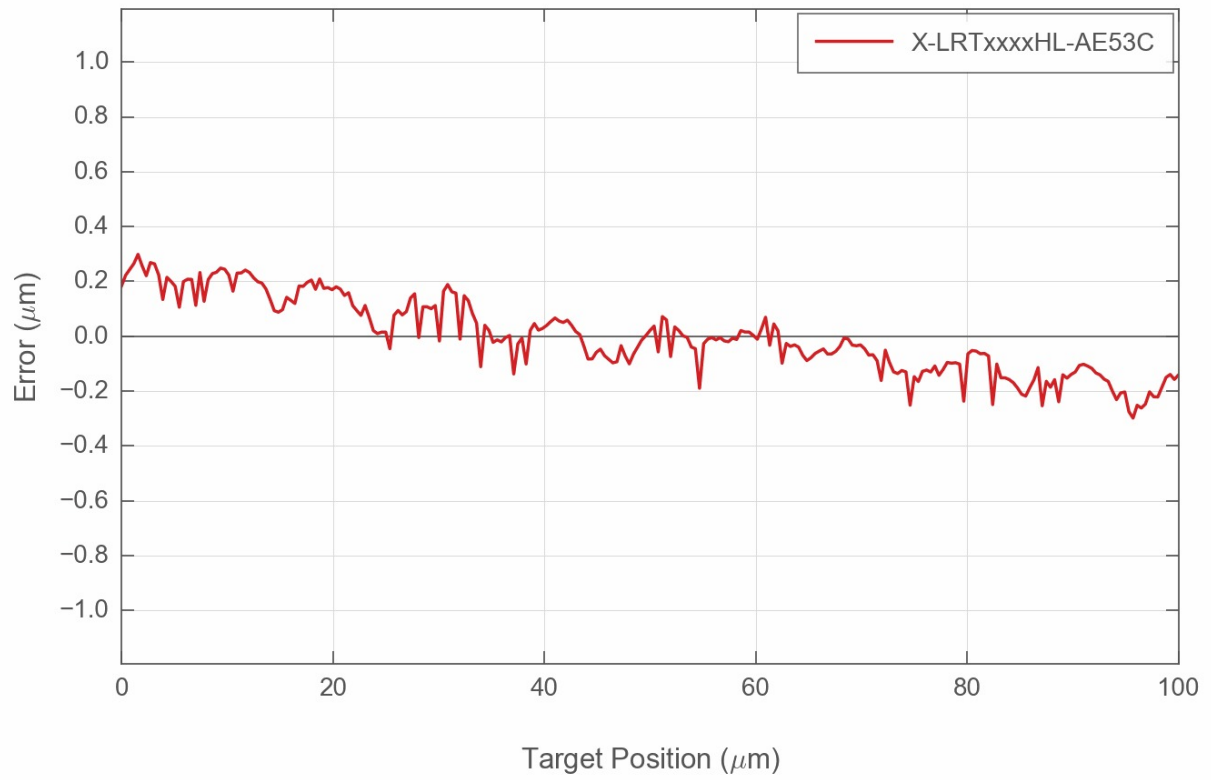
Typical Microstepping Accuracy



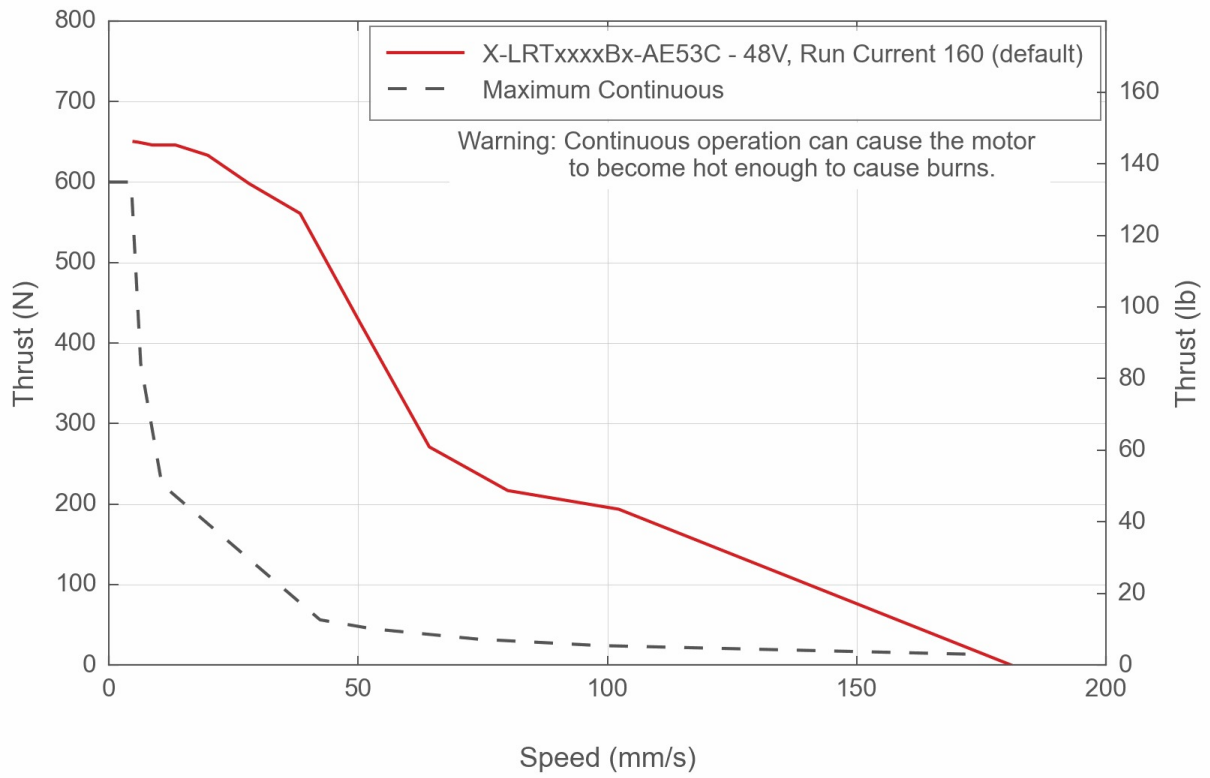
Typical Microstepping Accuracy



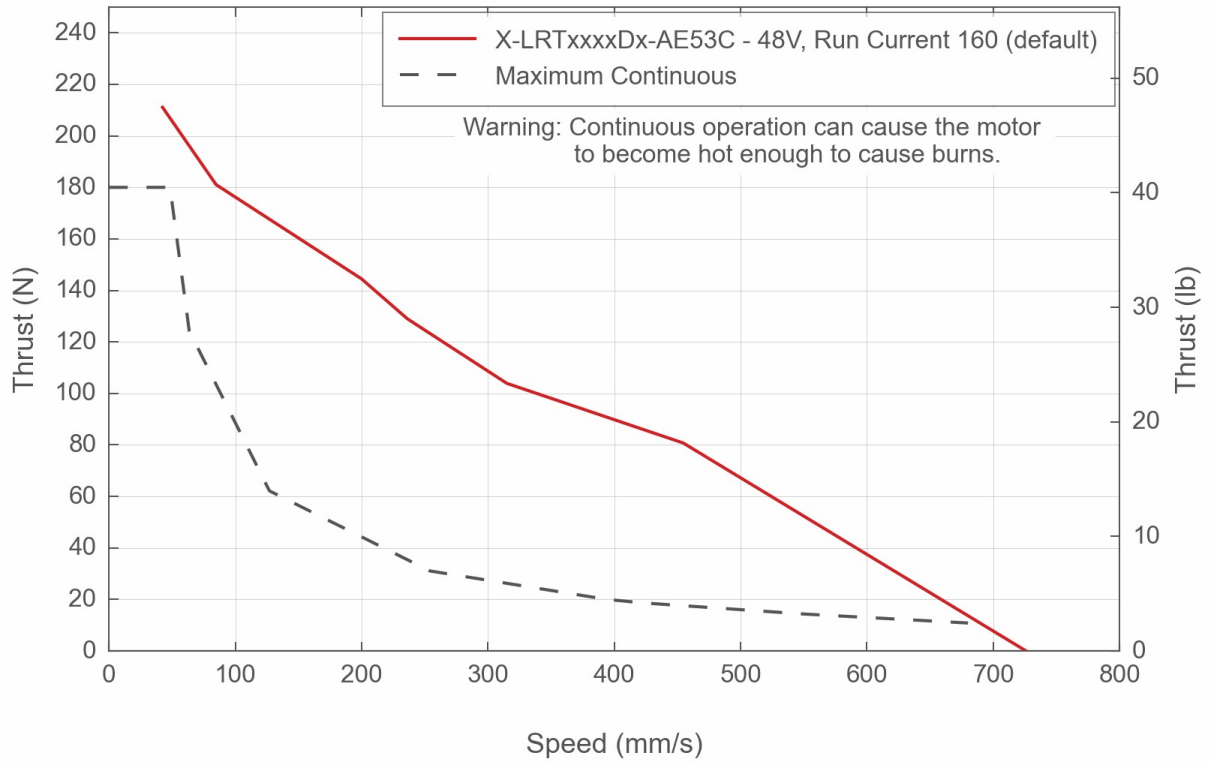
Typical Microstepping Accuracy



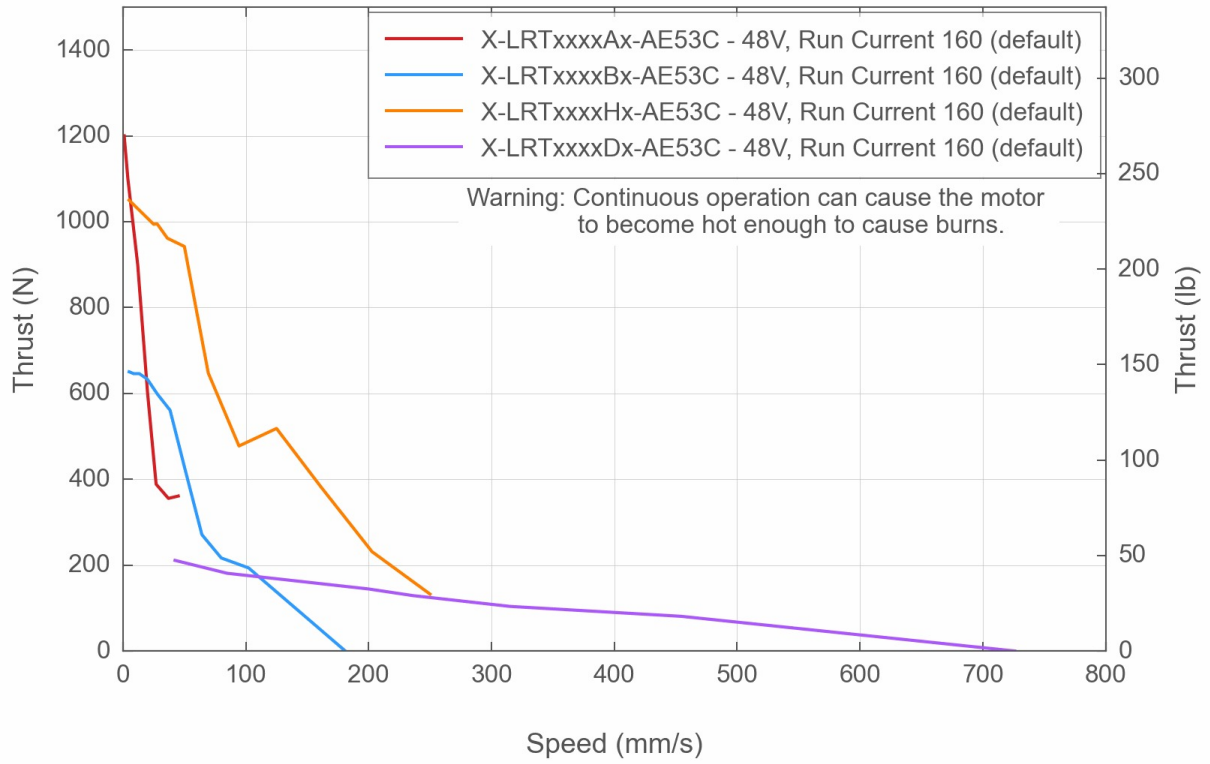
Thrust Speed Performance



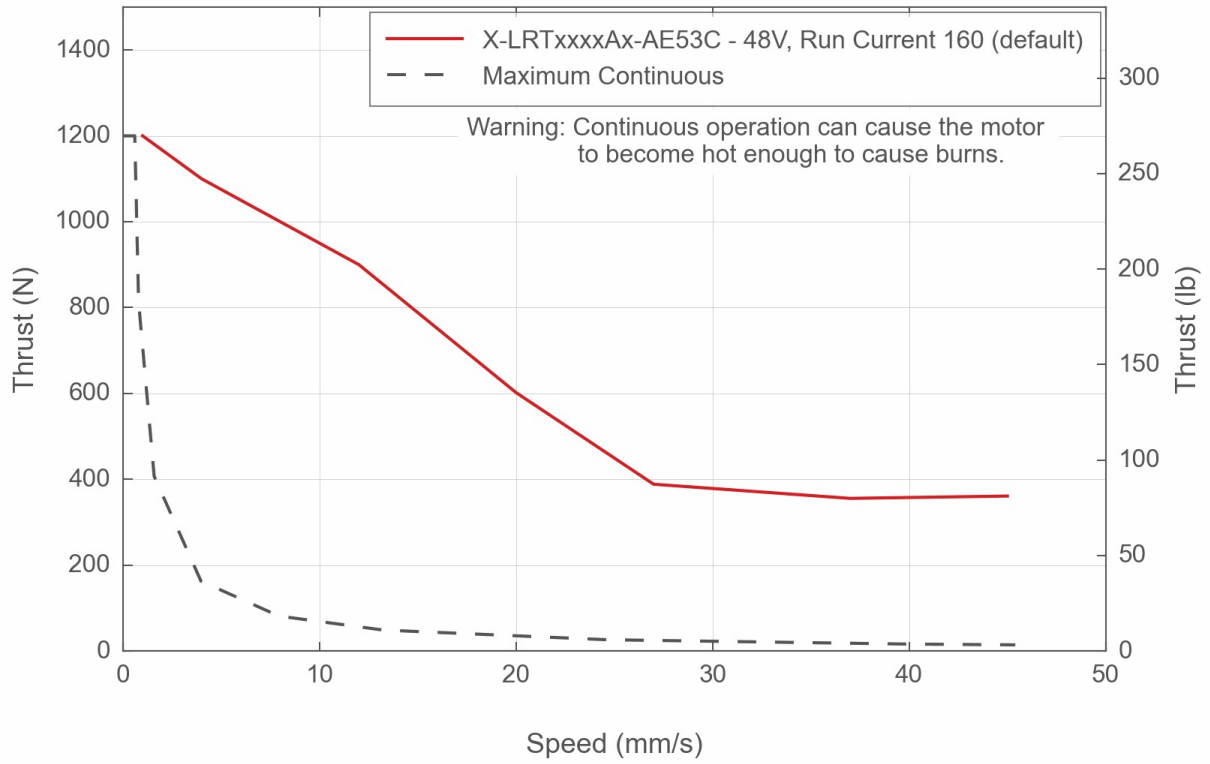
Thrust Speed Performance



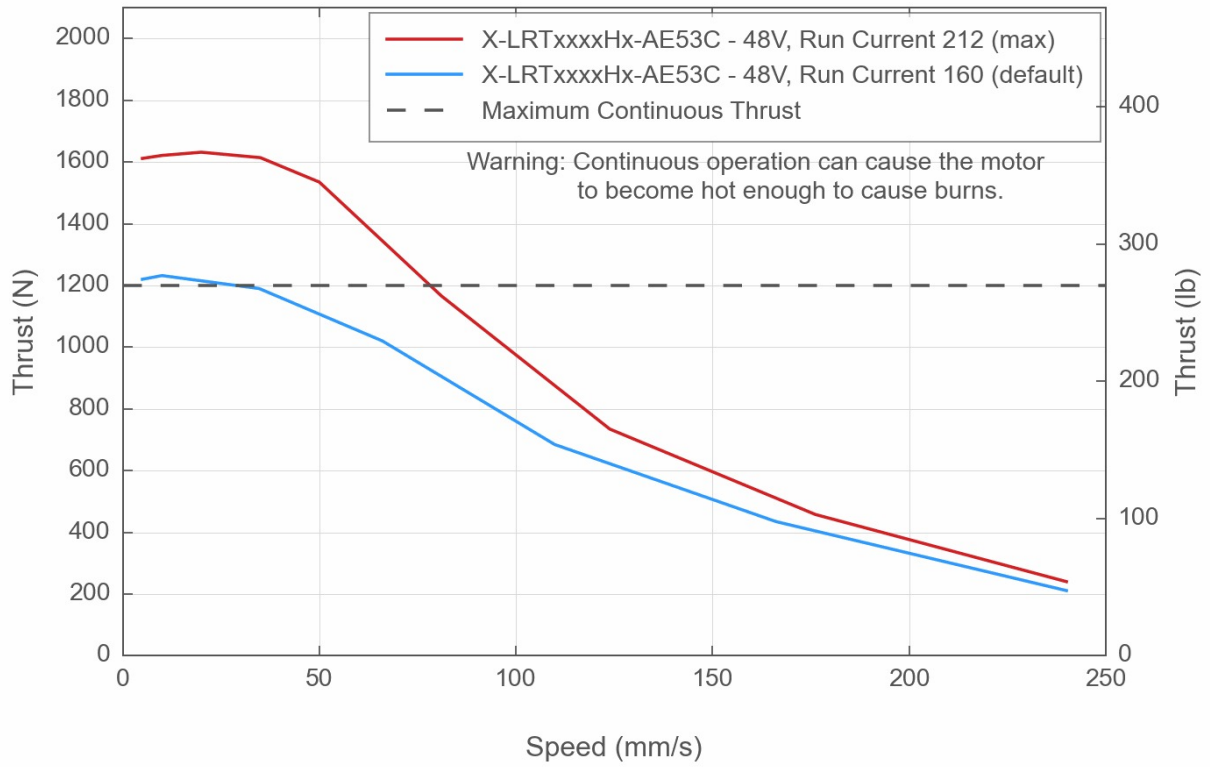
Thrust Speed Performance



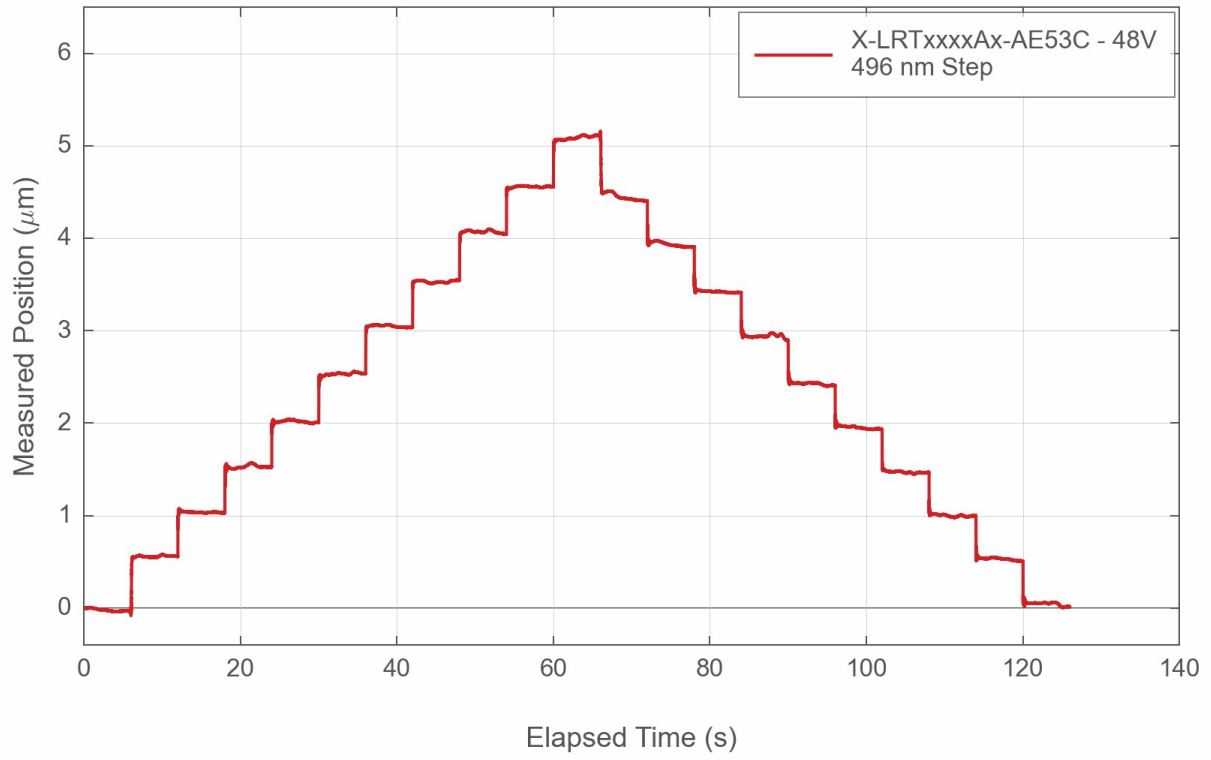
Thrust Speed Performance



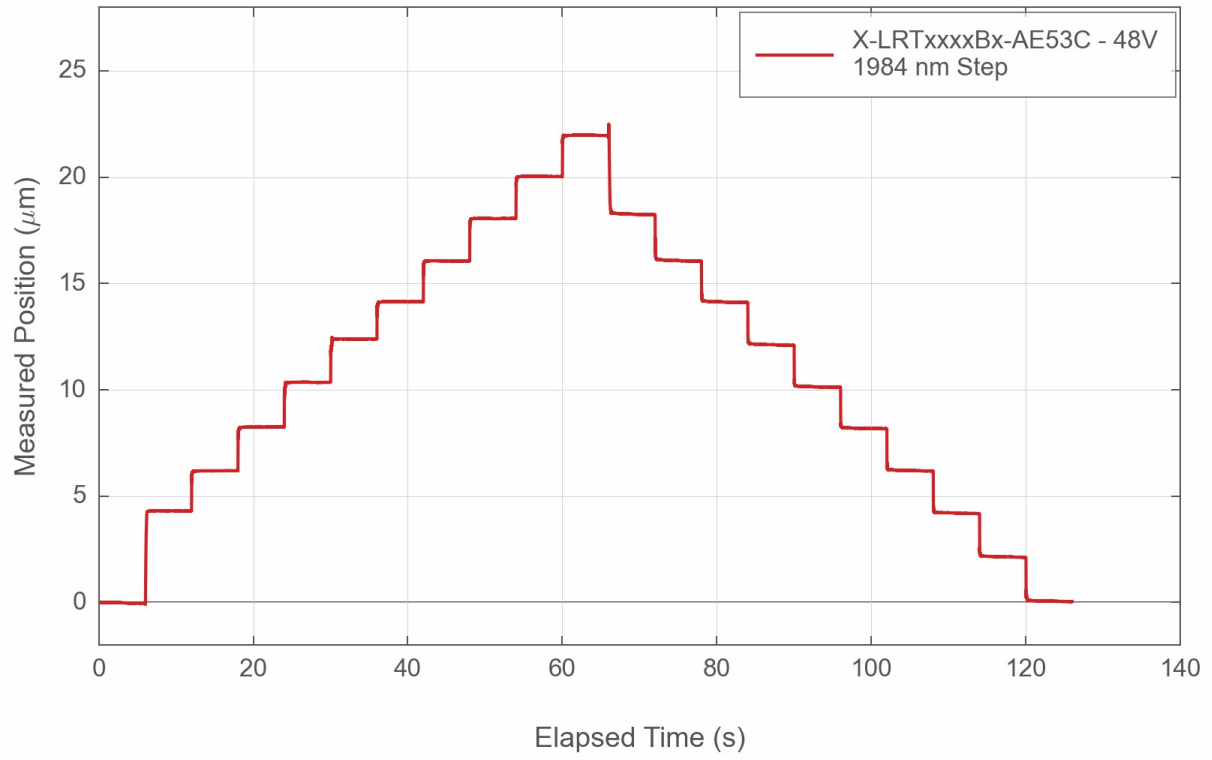
Thrust Speed Performance



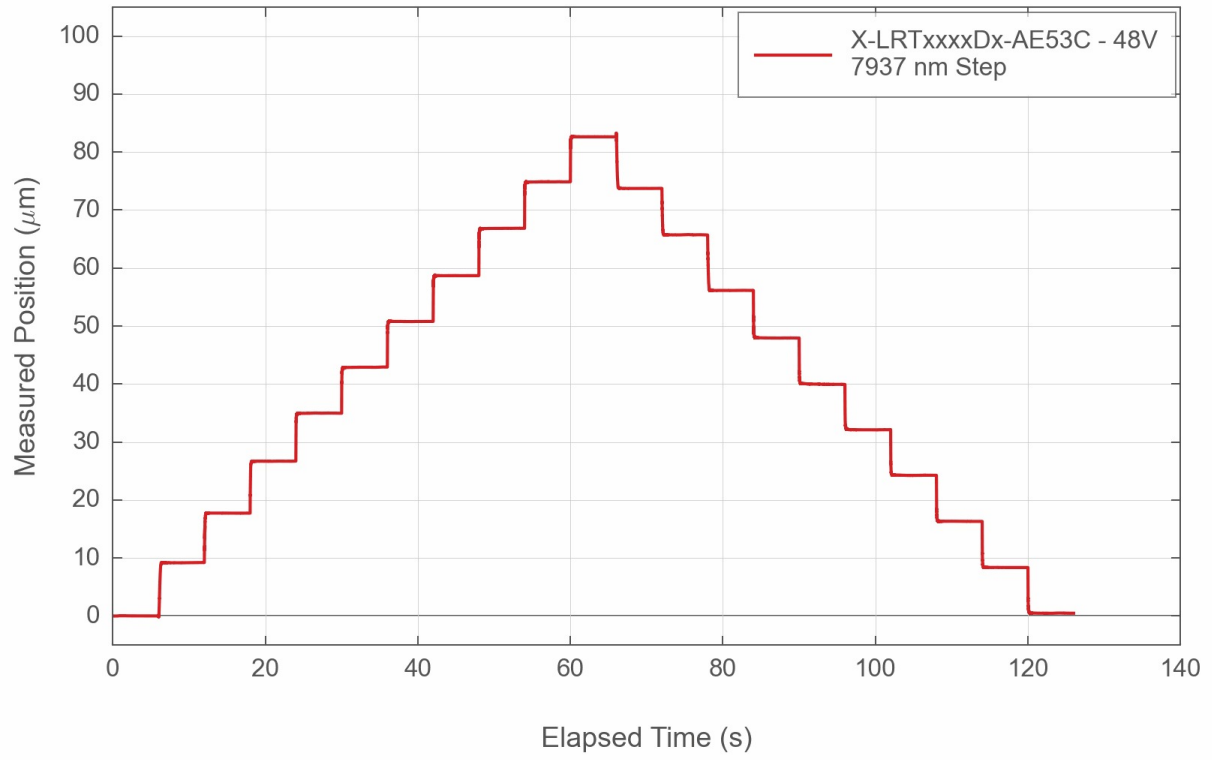
Typical Minimum Incremental Move



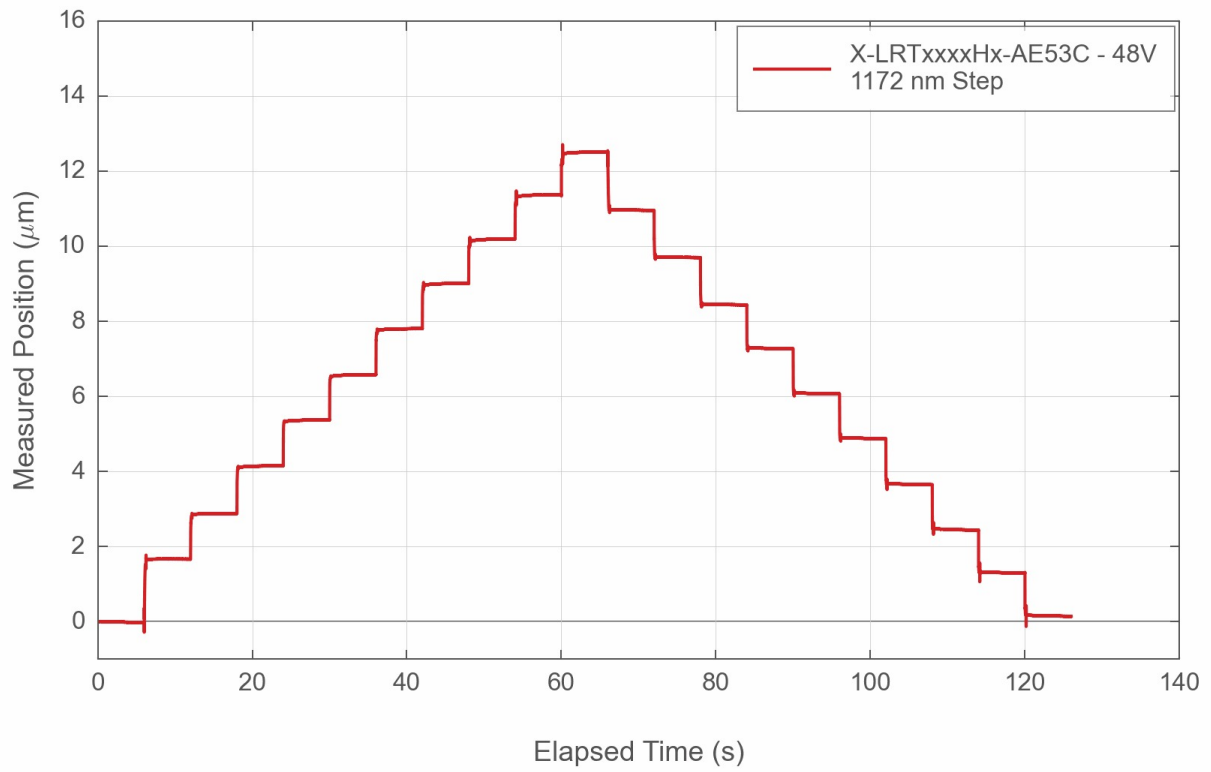
Typical Minimum Incremental Move



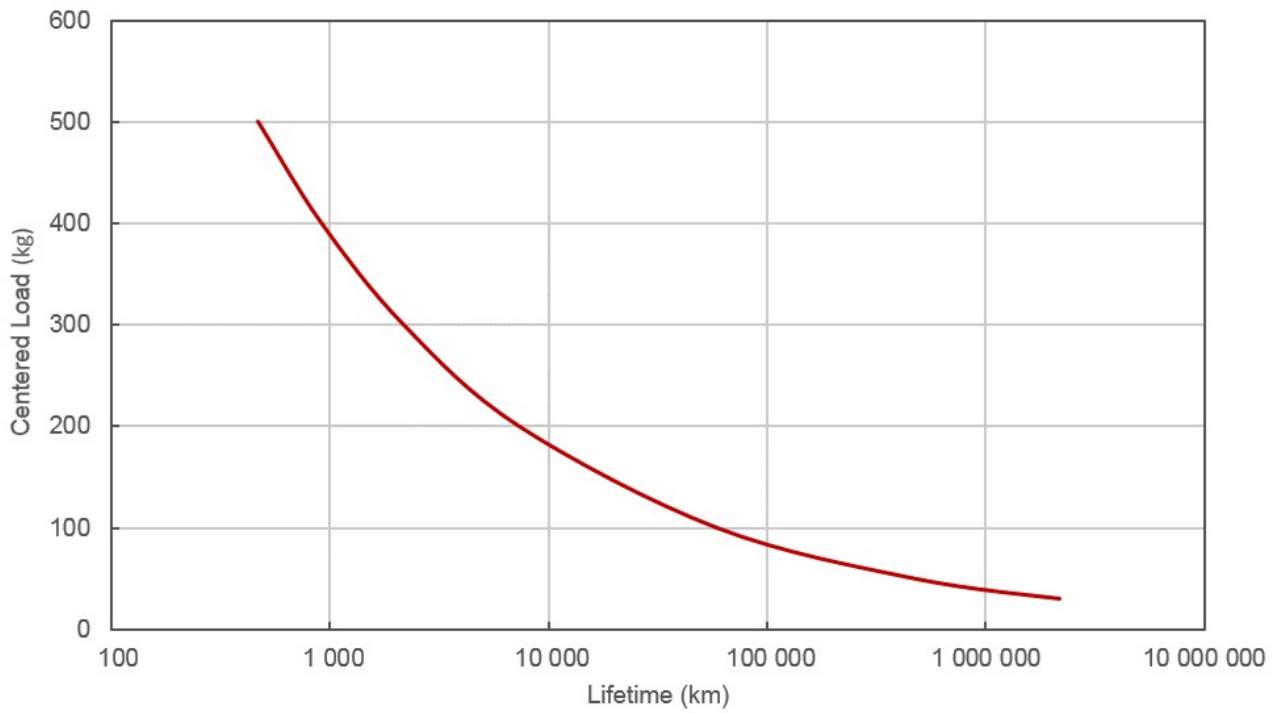
Typical Minimum Incremental Move



Typical Minimum Incremental Move



Typical LRT Bearing Lifetime



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