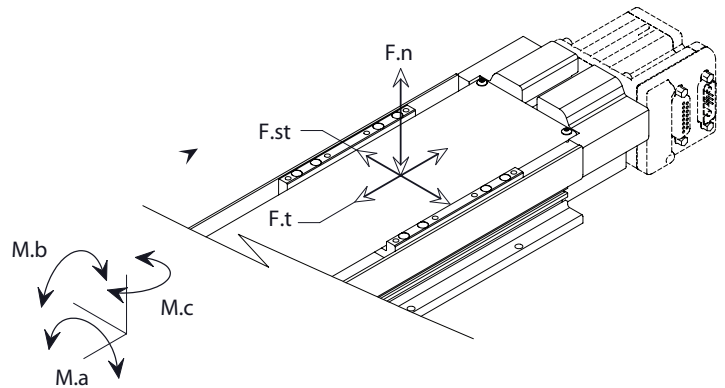


ACTUATORS

XL100 Product Specifications

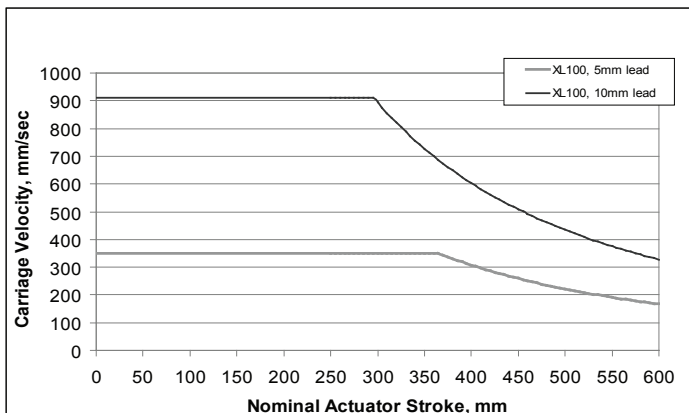
Parameter	Value	Units
Configuration & Physical Parameters		
Motor	Animatics SmartMotors Size 17 & 23	-
Coupling	Beam	-
Ball Screw Leads	5, 10	mm/rev
Position Sensors	Adjustable (3 per side - 6 max) NPN N/O or N/C	-
Stroke Lengths	Standard in 50mm increments to 600 Custom in 1mm increments to 600	mm
Overall Length	Stroke + 223.50 + Motor	mm
Over-Travel	24.5	mm
Unit Mass	2.657 + 0.0049 x (stroke, mm) + (motor mass, kg)	kg
Performance		
Unidirectional Repeatability	3	µm
Bi-directional Repeatability	16	µm
Ballscrew Lead Accuracy	0.1/300	mm/mm
Load Capacities, Dynamic* (Static)		
Payload Mass	110 or 88 (5 or 10mm/rev lead)	kg
F. t, Thrust	200 (1140)	N
F.n, Carriage Normal	860 (15000)	N
F.st, Carriage Side	580 (1000)	N
M.a, Carriage Moment**	25 (500)	Nm
M.b, Carriage Moment**	25 (500)	Nm
M.c, Carriage Moment**	25 (500)	Nm



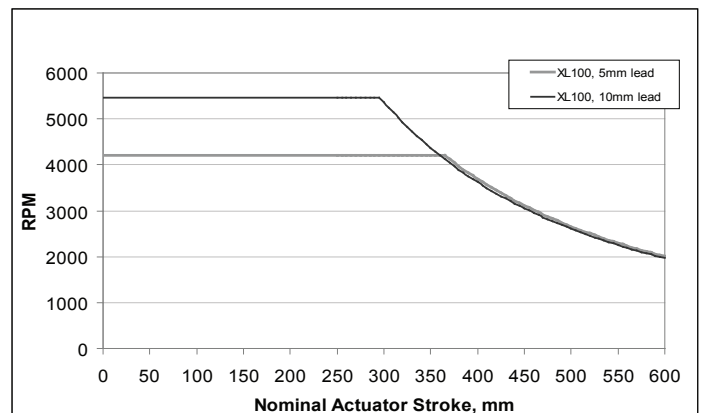
*Based on a basic desired service life of 15,000hr (7.5yrs single shift) @ 167 mm/s and 333mm/s (2000 RPM) average speed at given payload.
 Consult the factory if your application exceeds these values.
 **Moment capacities given about center of carriage mounting surface.

WARNING: Do not exceed these limits

XL100 - Maximum Permissible Carriage Velocity



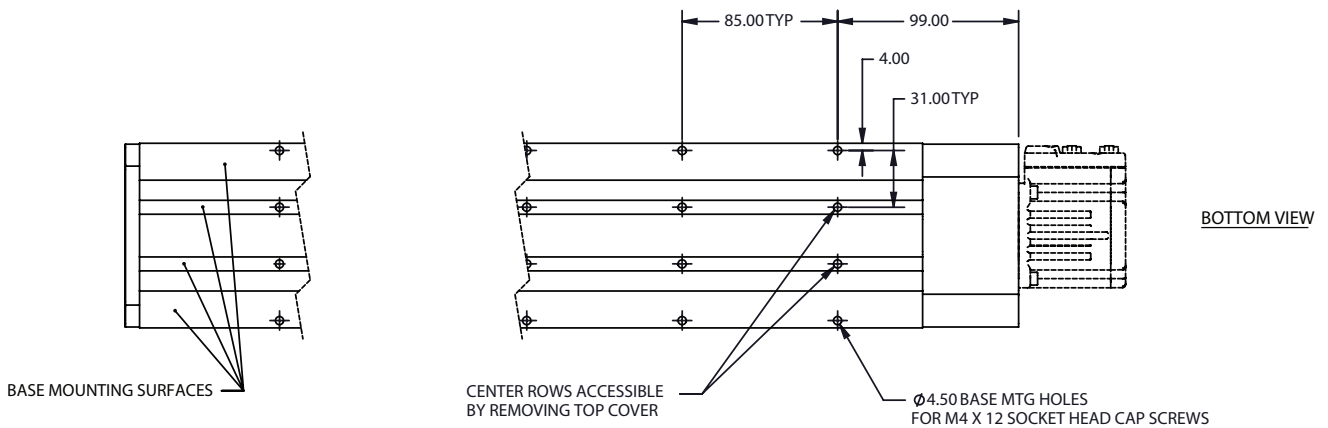
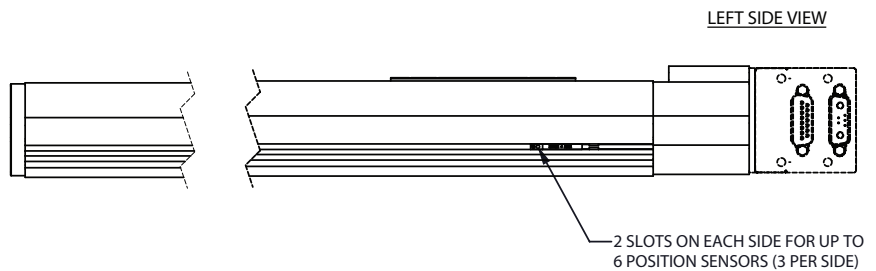
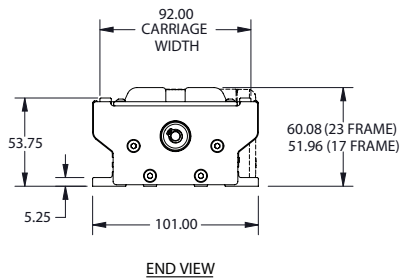
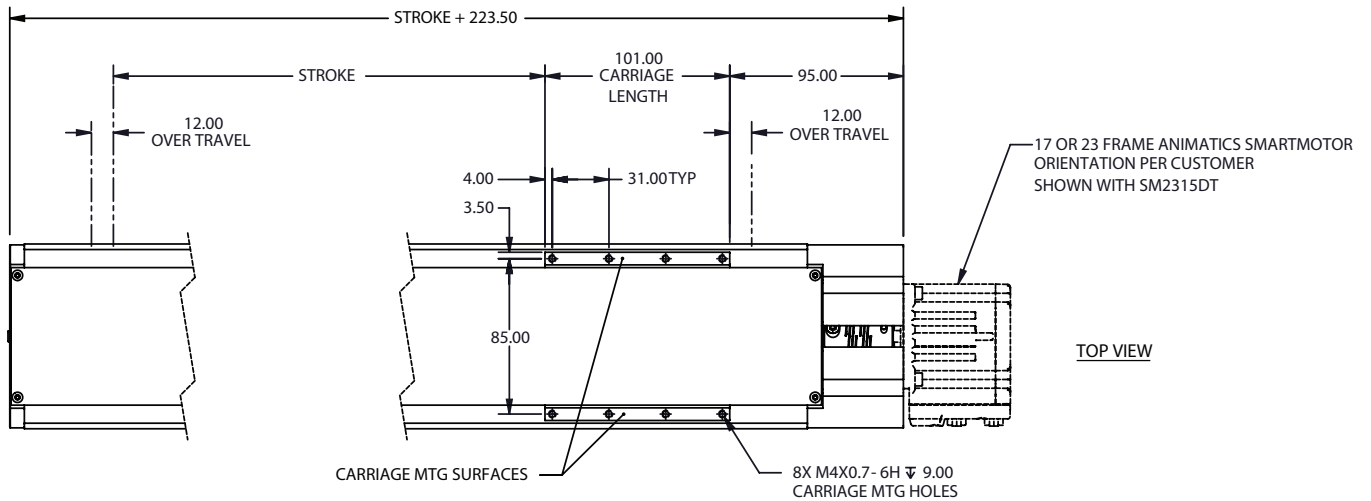
XL100 - Maximum Permissible Screw Speed



Actuators

XL100

ACTUATORS



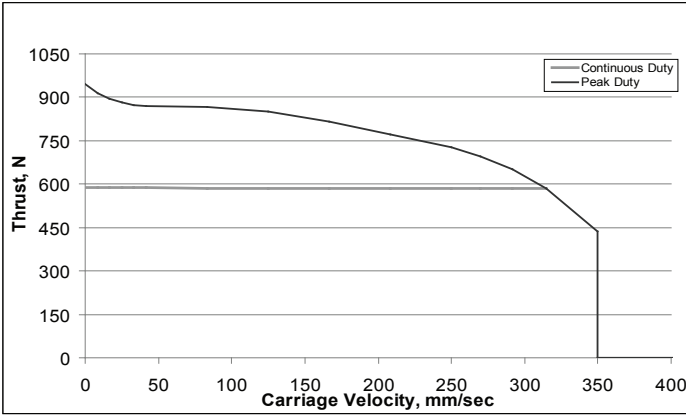
Dimensions in millimeters

Note: For part numbers please refer to our Website at www.oemdynamics.com/partnumbers or to catalog page 5.

Thrust Curve performance data in following section on pages 44-49.

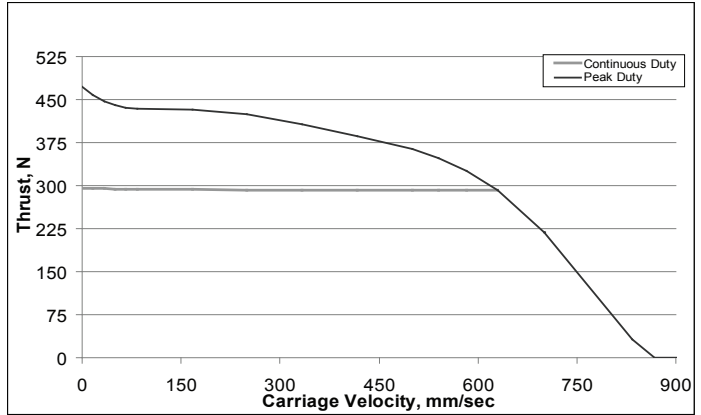
THRUST CURVES

L70/XL100 - SM2316DT @ 48V, 5mm/rev lead ball screw



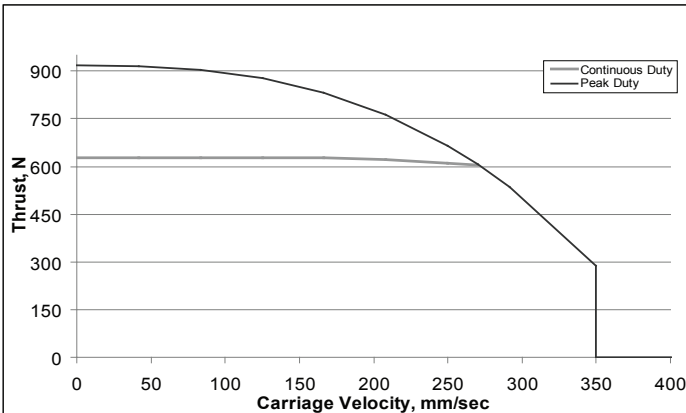
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316DT @ 48V, 10mm/rev lead ball screw



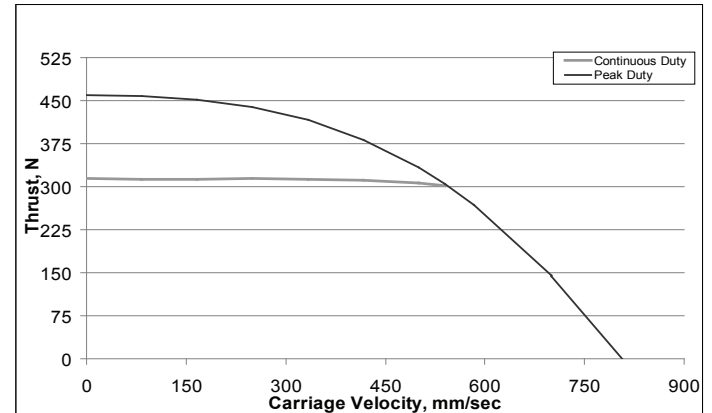
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316DT @ 42V, 5mm/rev lead ball screw



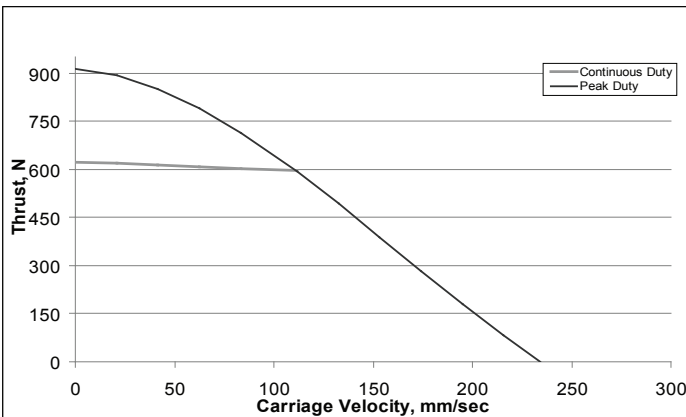
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316DT @ 42V, 10mm/rev lead ball screw



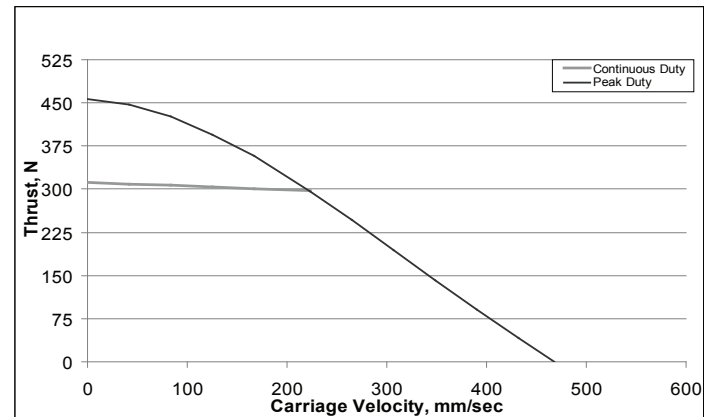
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316DT @ 24V, 5mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316DT @ 24V, 10mm/rev lead ball screw



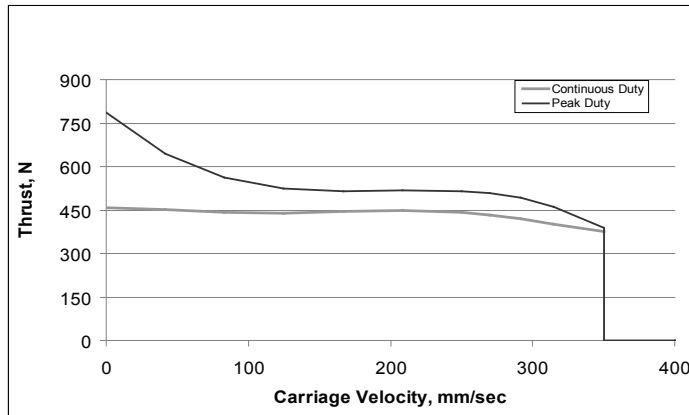
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

Impress Tryout Thrust Curves

L70 & XL100 • SM2315DT

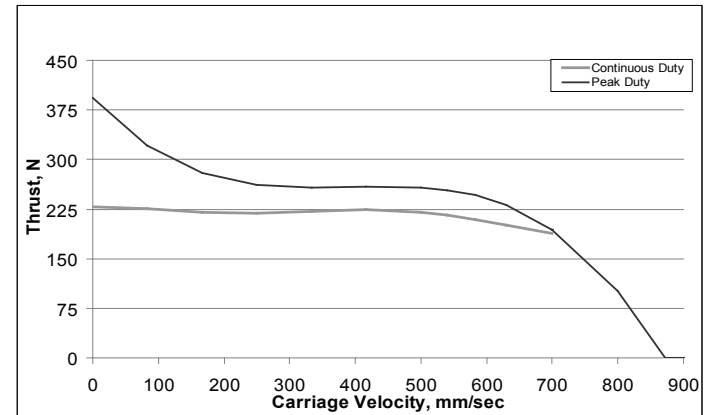
THRUST CURVES

L70/XL100 - SM2315DT @ 48V, 5mm/rev lead ball screw



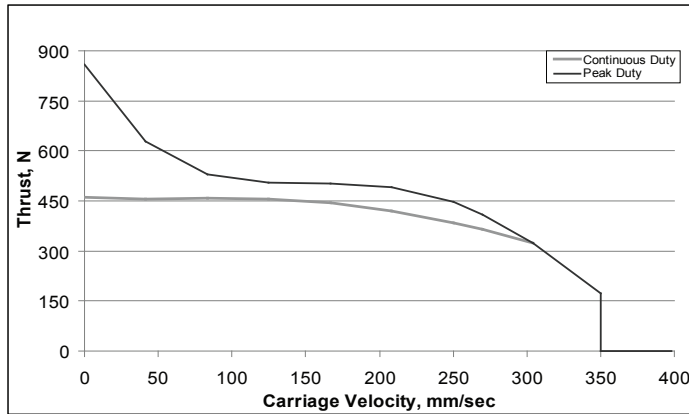
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315DT @ 48V, 10mm/rev lead ball screw



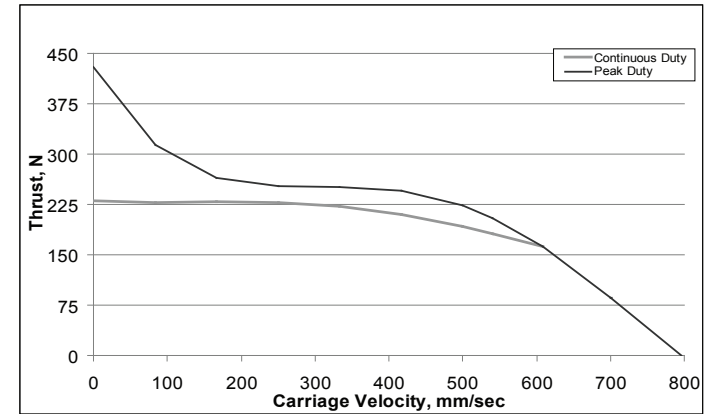
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315DT @ 42V, 5mm/rev lead ball screw



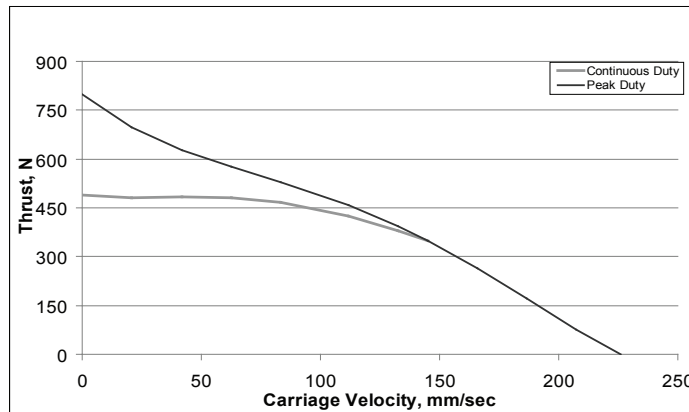
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315DT @ 42V, 10mm/rev lead ball screw



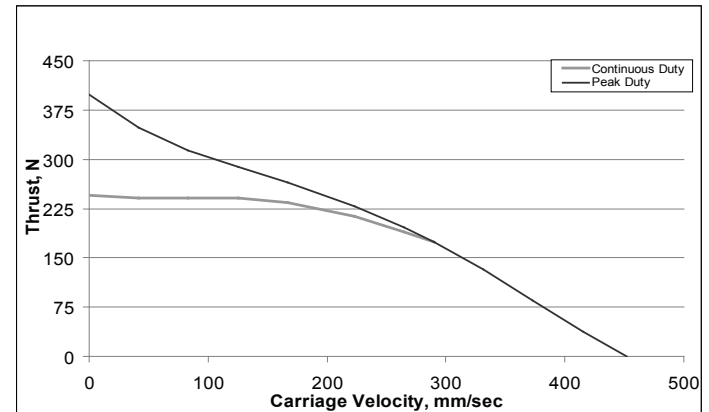
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315DT @ 24V, 5mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

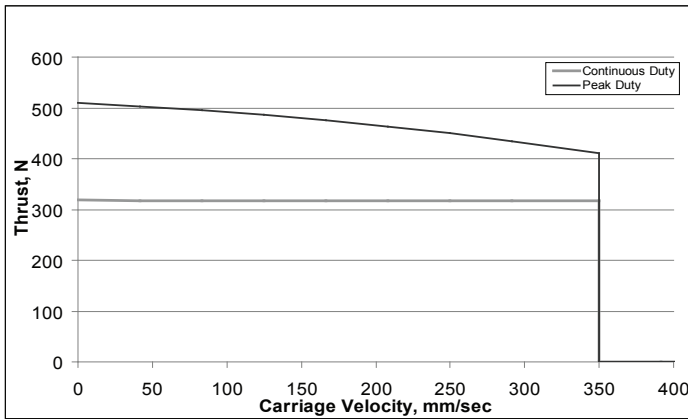
L70/XL100 - SM2315DT @ 24V, 10mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

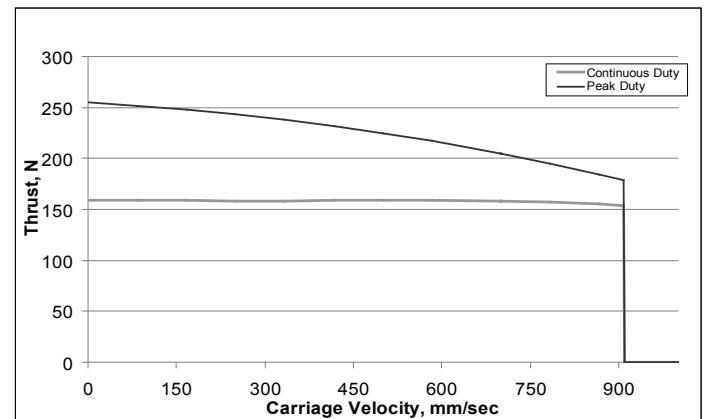
THRUST CURVES

L70/XL100 - SM2316D @ 48V, 5mm/rev lead ball screw



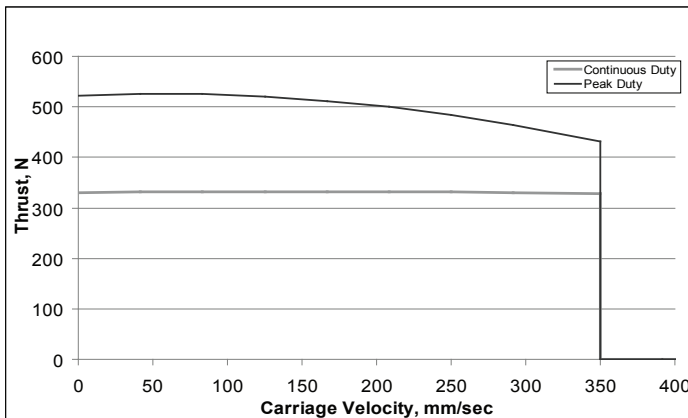
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316D @ 48V, 10mm/rev lead ball screw



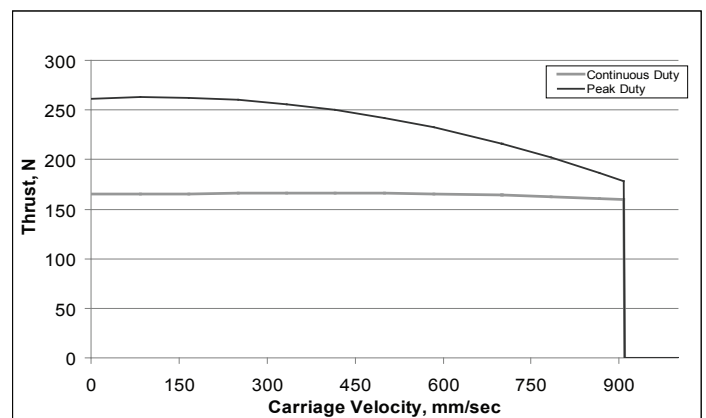
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316D @ 42V, 5mm/rev lead ball screw



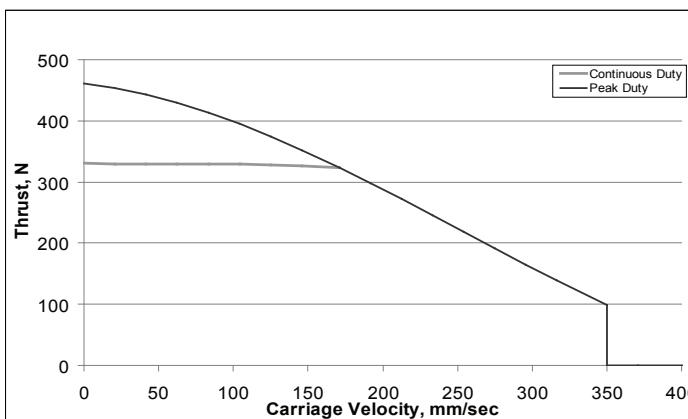
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316D @ 42V, 10mm/rev lead ball screw



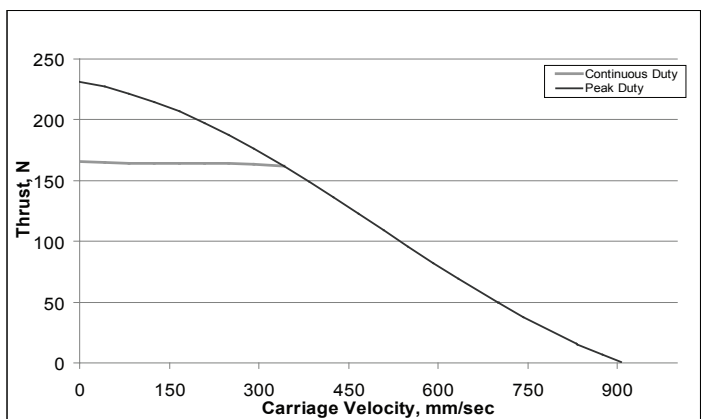
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316D @ 24V, 5mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2316D @ 24V, 10mm/rev lead ball screw



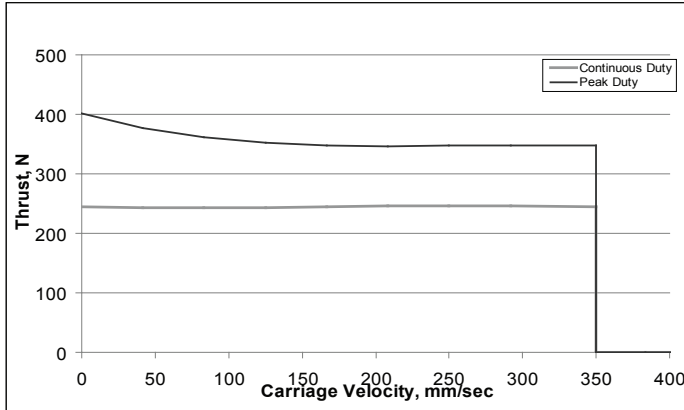
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

Impress Tryout Thrust Curves

L70 & XL100 • SM2315D

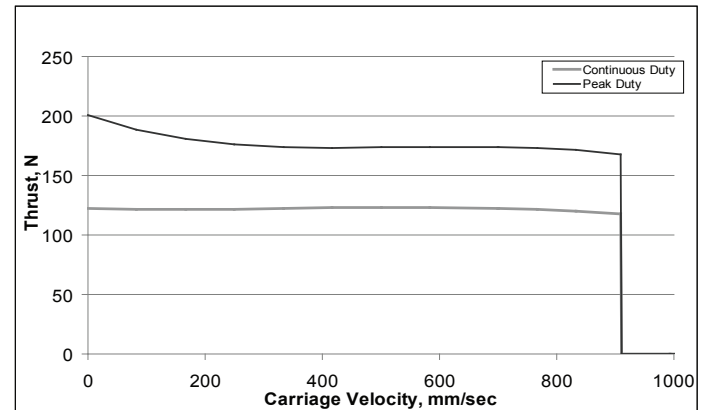
THRUST CURVES

L70/XL100 - SM2315D @ 48V, 5mm/rev lead ball screw



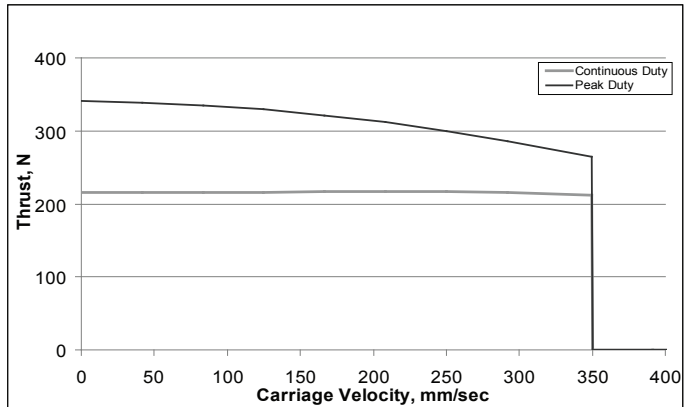
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315D @ 48V, 10mm/rev lead ball screw



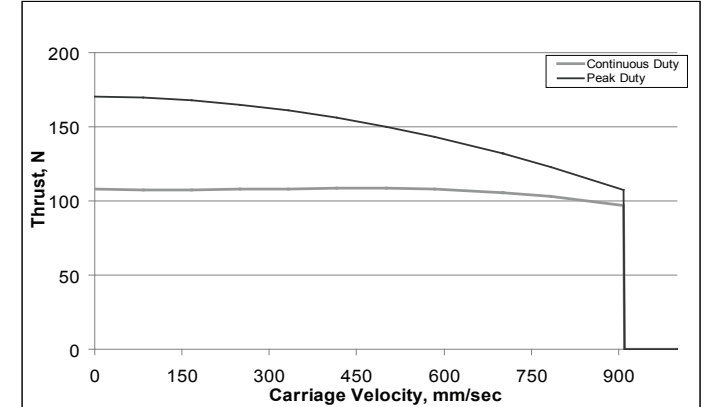
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315D @ 42V, 5mm/rev lead ball screw



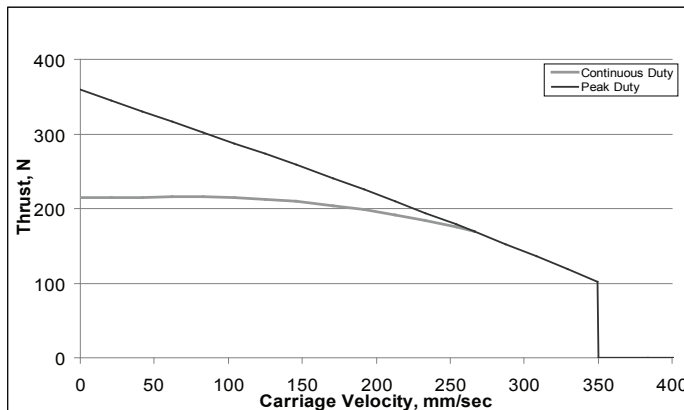
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315D @ 42V, 10mm/rev lead ball screw



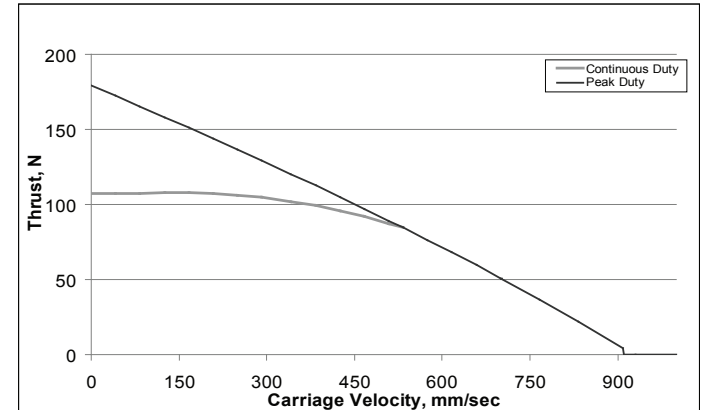
*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315D @ 24V, 5mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.

L70/XL100 - SM2315D @ 24V, 10mm/rev lead ball screw



*200 N Dynamic Thrust Limit for Basic Service Life when operated at critical speed limits.
 **Please see pages 14 and 28 for lifetime information.