

Specifications & Part Number System

The XLA
ALL-in-ONE
SYSTEM

XLA15 - T48 BS _ .100 - C

Part ID	
Travel in Inches Travel XX	
Screw Type BS = Ball Screw LS = Lead Screw	
Unit of Measure (Screw Lead) Blank = Inches M = Metric	
Screw Lead Specify e.g.: .100= .1" Lead M 010= 10mm Lead	
Options C = Cover (Alum.) LSx=Limit Switch (x = # of Switches) BC= Bellows HS= Home Switch	

LM Guide Specification	
Type	XLA-15-LS
Dyn. Load Rating C lbf [kN]	1933.4 [8.6]
Stat. Load Rating C ₀ lbf [kN]	3192.3 [14.2]

Bearing Specification	
Dyn. Load Rating C lbf [N]	586.4 [2608.6]
Stat. Load Rating C ₀ lbf [N]	1212.5 [5393.7]

Repeatability	+/- .0001 mm
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Static Permissible Moment		
Ma	lbf.ft [Nm]	1478 [2004]
Mb	lbf.ft [Nm]	1571 [2130]
Mc	lbf.ft [Nm]	1485.5 [2014]

Geometrical Moment of Inertia		
I _x	in ⁴ [mm ⁴]	.49 [2.04 * 10 ⁵]
I _y	in ⁴ [mm ⁴]	6.66 [2.8 * 10 ⁶]
Mass	lb/ ft [kg/m]	3.45 [5.1]

Ball Screw Specification			
Outer Diam. of Screw in [mm]	0.625 [16]		
Lead	in [mm]	.197 [5]	.394 [10]
Dyn. Load Rating C	lbf [N]	1719.6 [7649.2]	1829.84 [8139.52]
Stat. Load Rating C ₀	lbf [N]	3946.3 [17553.9]	2753.6 [12248.5]
Accuracy	C 10		
Axial Clearance	P0		

Lead Screw Specification			
Outer Diam. of Screw	in [mm]	.625 [16]	
Lead	in [mm]	.1 [2.54]	.2 [5.08]
Dyn. Load Rating C*	lbf [N]	250 [1112.06] ¹	
Accuracy	in/in	.0006	
Axial Clearance	Pre-loaded		

¹Based on 200 million inches of travel uncoated, TFE coating available to increase life to 300 million inches