Specifications

Load Capacities		Two (2) Bearing Carriage	Four (4) Bearing Carriage
Dynamic Horizontal	2 million inches (50 km) of travel	1,550 lbs (703 kg)	3,100 lbs (1406 kg)
Dynamic Horizontal	100 million inches (2540 km) of travel	415 lbs (188 kg)	840 lbs (381 kg)
Static Horizontal		2,360 lbs (1070 kg)	4,720 lbs (2140 kg)
Dynamic Roll Moment	2 million inches (50 km) of travel	140 ft-lbs (190 N-m)	280 ft-lbs (379 N-m)
Dynamic Roll Moment	100 million inches (2540 km) of travel	37 ft-lbs (50 N-m)	75 ft-lbs (101 N-m)
Static Roll Moment		210 ft-lbs (285 N-m)	425 ft-lbs (576 N-m)
Dyn. Pitch & Yaw Moment	2 million inches (50 km) of travel	18 ft-lbs (24 N-m)	240 ft-lbs (325 N-m)
Dyn. Pitch & Yaw Moment	100 million inches (2540 km) of travel	5 ft-lbs (7 N-m)	65 ft-lbs (88 N-m)
Static Pitch & Yaw Moment		30 ft-lbs (41 N-m)	365 ft-lbs (495 N-m)
Each Bearing Dyn. Capacity	2 million inches (50 km) of travel	775 lbs (351 kg)	775 lbs (351 kg)
Each Bearing Dyn. Capacity	100 million inches (2540 km) of travel	208 lbs (94 kg)	208 lbs (94 kg)
Each Bearing Static Load Capacity		1,180 lbs (535 kg)	1,180 lbs (535 kg)
Maximum Belt Tensile Force		250 lbs (113 kg)	250 lbs (113 kg)
Maximum Carriage Thrust Force		115 lbs (52 kg)	115 lbs (52 kg)
Maximum Speed		118 in/sec (3 m/sec)	118 in/sec (3 m/sec)
Maximum Acceleration		386 in/sec^2 (9,8 m/sec^2)	772 in/sec^2 (19,6 m/sec^2)
d_1	Center to center distance (spread) between the two rails	2.375 in (60,3 mm)	2.375 in (60,3 mm)
d_2	Center to center distance (spacing) of the bearings on a single rail	-	2.088 in (53,0 mm)
d_r	Center distance of the bearing to top of carriage plate surface	1.375 in (34,9 mm)	1.375 in (34,9 mm)

Other	For Two (2) & Four (4) Bearing Carriages
Table Material	Base, Carriage, End Plates, & Cover Plate - 6061 anodized aluminum
Linear Rail Material	Stainless Steel
Belt Properties	Black, 16 mm wide, Polyurethane, Steel reinforced belt
Drive Pulley Weight	0.21 lbs (0,10 kg)
Drive Pulley Diameter	1.128 in (28,65 mm)
Drive Lead	3.543 in (90,00 mm)
Belt Stretch - x Load (lbs or N)	0.00025 in/ft per lbs (0,00476 mm/m per N)
Unidirectional Repeatability	+/- 0.001 in (+/- 0,0254 mm)
Bidirectional Repeatability	+/- 0.004 in (+/- 0,1016 mm)
Position Accuracy (Belt) [1]	< 0.010 in/ft (< 0,254 mm/300mm)
Orthogonality (multi-axis systems)	< 30 arc-seconds
Friction Coefficient	< 0.01
Breakaway Torque	< 60 oz-in (0,424 N-m)
Motor Mount	NEMA 23 & 34 Mounts, Metric Mounts, and Gearheads
Coupling	Two (2) different styles available

Footnotes:

(1) Position accuracy varies based on belt stretch. The given rating is based upon a carriage speed of 5 inches/sec (127 mm/sec) and a no load condition.

Specifications subject to change without notice