

### Specifications

Load Capacities		Four (4) Bearing Carriage	Six (6) Bearing Carriage
<b>Dynamic Horizontal</b>	2 million inches (50 km) of travel	7,780 lbs ( 3530 kgf)	11,670 lbs ( 5290 kgf)
<b>Dynamic Horizontal</b>	100 million inches (2540 km) of travel	2,090 lbs ( 948 kgf)	3,135 lbs ( 1420 kgf)
<b>Static Horizontal</b>		11,640 lbs ( 5280 kgf)	17,460 lbs ( 7920 kgf)
<b>Dynamic Roll Moment</b>	2 million inches (50 km) of travel	1,025 ft-lbs ( 1390 N-m)	1,540 ft-lbs ( 2085 N-m)
<b>Dynamic Roll Moment</b>	100 million inches (2540 km) of travel	275 ft-lbs ( 370 N-m)	410 ft-lbs ( 555 N-m)
<b>Static Roll Moment</b>		1,830 ft-lbs ( 2480 N-m)	2,750 ft-lbs ( 3725 N-m)
<b>Dyn. Pitch &amp; Yaw Moment</b>	2 million inches (50 km) of travel	2,160 ft-lbs ( 2925 N-m)	2,235 ft-lbs ( 3030 N-m)
<b>Dyn. Pitch &amp; Yaw Moment</b>	100 million inches (2540 km) of travel	580 ft-lbs ( 785 N-m)	600 ft-lbs ( 810 N-m)
<b>Static Pitch &amp; Yaw Moment</b>		3,860 ft-lbs ( 5230 N-m)	3,980 ft-lbs ( 5395 N-m)
<b>Each Bearing Dyn. Capacity</b>	2 million inches (50 km) of travel	1,945 lbs ( 882 kgf)	1,945 lbs ( 882 kgf)
<b>Each Bearing Dyn. Capacity</b>	100 million inches (2540 km) of travel	525 lbs ( 238 kgf)	525 lbs ( 238 kgf)
<b>Each Bearing Static Load Capacity</b>		2,910 lbs ( 1320 kgf)	2,910 lbs ( 1320 kgf)
<b>Thrust Force Capacity</b>	10 million screw revolutions	895 lbs ( 406 kgf)	895 lbs ( 406 kgf)
<b>Thrust Force Capacity</b>	500 million screw revolutions	240 lbs ( 109 kgf)	240 lbs ( 109 kgf)
<b>Maximum Acceleration</b>		772 in/sec <sup>2</sup> ( 19,6 m/sec <sup>2</sup> )	772 in/sec <sup>2</sup> ( 19,6 m/sec <sup>2</sup> )
<b>d<sub>1</sub></b>	Center to center distance (spread) between the two rails	3.660 in ( 92,96 mm)	3.660 in ( 92,96 mm)
<b>d<sub>2</sub></b>	Center to center distance (spacing) of the bearings on a single rail	9.290 in ( 235,97 mm)	4.645 in ( 117,98 mm)
<b>d<sub>r</sub></b>	Center distance of the bearing to top of carriage plate surface	1.320 in ( 33,53 mm)	1.320 in ( 33,53 mm)

Other	For Four (4) & Six (6) Bearing Carriages
<b>Table Material</b>	Base, Carriage, End Plates & Cover Plate Option - 6061 anodized aluminum
<b>Linear Rail Material</b>	Case Hardened Steel
<b>Screw Material</b> (see pages E-30 to E-35)	Acme Screw - Stainless Steel
<b>Screw Material</b> (see pages E-30 to E-35)	Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel
<b>Unidirectional Repeatability</b>	+/- 0.0002 in (5 microns)
<b>Bidirectional Repeatability</b>	+/- 0.0002 in (5 microns) to +/- 0.0082 in (208 microns) - depends on selected screw
<b>Straightness</b>	< 0.00016 in/in (< 4,06 microns/25mm)
<b>Flatness</b>	< 0.00016 in/in (< 4,06 microns/25mm)
<b>Orthogonality</b> (multi-axis systems)	< 30 arc-seconds
<b>Friction Coefficient</b>	< 0.01
<b>Motor Mount</b>	NEMA 23 & 34 Mounts, Metric Mounts, Motor Wraps, and Hand Crank Option
<b>Coupling</b>	Three (3) different styles available
<b>Waycover Material</b>	Hypilon Polyester Bellows mounted to carriage & end plates

Specifications subject to change without notice