

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)
Thrust Force Capacity	10 million screw revolutions	665 lbs	(302 kg)	665 lbs	(302 kg)
Thrust Force Capacity	500 million screw revolutions	180 lbs	(82 kg)	180 lbs	(82 kg)
Maximum Acceleration		386 in/sec ²	(9,8 m/sec ²)	772 in/sec ²	(19,6 m/sec ²)
d₁	Center to center distance (spread) between the two rails	2.375 in	(60,3 mm)	2.375 in	(60,3 mm)
d₂	Center to center distance (spacing) of the bearings on a single rail	-		2.088 in	(53,0 mm)
d_r	CP0 version Center distance of the bearing to top of carriage plate surface	.750 in	(19,1 mm)	.750 in	(19,1 mm)
d_r	CP1 version 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 option - 6061 anodized aluminum
Linear Rail Material	Stainless Steel
Screw Material (see pages C-18 to C-23)	Acme Screw - Stainless Steel
Screw Material (see pages C-18 to C-23)	Rolled Ball, Precision Ball, & Ground Ball - Case Hardened Steel
Unidirectional Repeatability	+/- 0.0001 in (2,5 microns) to +/- 0.0002 in (5 microns) - depends on selected screw
Bidirectional Repeatability	+/- 0.0001 in (2,5 microns) to +/- 0.0082 in (208 microns) - depends on selected screw
Straightness	< 0.00013 in/in (< 3,30 microns/25mm)
Flatness	< 0.00013 in/in (< 3,30 microns/25mm)
Orthogonality (multi-axis systems)	< 30 arc-seconds
Friction Coefficient	< 0.01
Motor Mount	NEMA 23 & 34 Mounts, Metric Mounts, Motor Wraps, and Hand Crank Option
Coupling	Three (3) different styles available

Specifications subject to change without notice