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Linear Stage, Double-Row Ball Bearing, 51 mm Travel, M4 and M6



Overview

The M-UMR8.51 Precision Double-Row Ball Bearing Metric Linear Stage features steel construction for high stability and rigidity. The ball bearings and precision-ground bearing surfaces provide exceptional linear travel, with angular deviation of 150 µrad. UMR8 Series Stages have double-row ball bearings making them an excellent choice for carrying high loads up to 900 N. The moving carriage is preloaded by two springs to ensure constant micrometer contact for smooth, backlash-free motion over a 51 mm travel range. Multiple drive options cover the range of precision positioning. Standard BM Series Micrometers provide 1 µm sensitivity, while DM Series Differential Micrometers offer 0.1 µm. For coarse motion with position locking, a fixed positioning kit replaces the micrometer with two opposing adjustment screws and lock nuts. An optional carriage locking kit includes a screw that mounts in the stage body opposite the micrometer. Motorized actuators can be added for precision motion control. Generous hole patterns allow great flexibility in component placement on the stage mounting surface. Two stages can be easily stacked in an XY configuration and mounted to a table or breadboard. Multi-axis stage configurations are easily assembled using EQ Series Angle Brackets. UMR Stages are compatible with UTR and URM Rotation Stages, BGM Goniometers, and SL Series Mirror Mounts.

Technical Specs

Axes of Travel	X	**Drive Torque**	0.07 Nm
Maximum Stage Travel	50 mm	**Compliance in Roll**	0.05 mrad/Nm
Thread Type	M4 and M6	**Compliance in Pitch**	0.05 mrad/Nm
Load Capacity	900 N	**Compliance in Yaw**	0.05 mrad/Nm
Vertical Load Capacity	100 N	**Platform Size**	80 x 118 mm
Angular Deviation	150 µrad	**Height**	18 mm
Material	Steel	**Recommended BM Micrometer**	BM17.51
Bearings	Double-Row Ball Bearings	**Recommended LTA Motorized Actuator**	LTA-HS
Bearing Constant	40 mm	**Travel Requirement**	More Than 25.4 mm
Drive Location	Center drive		

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