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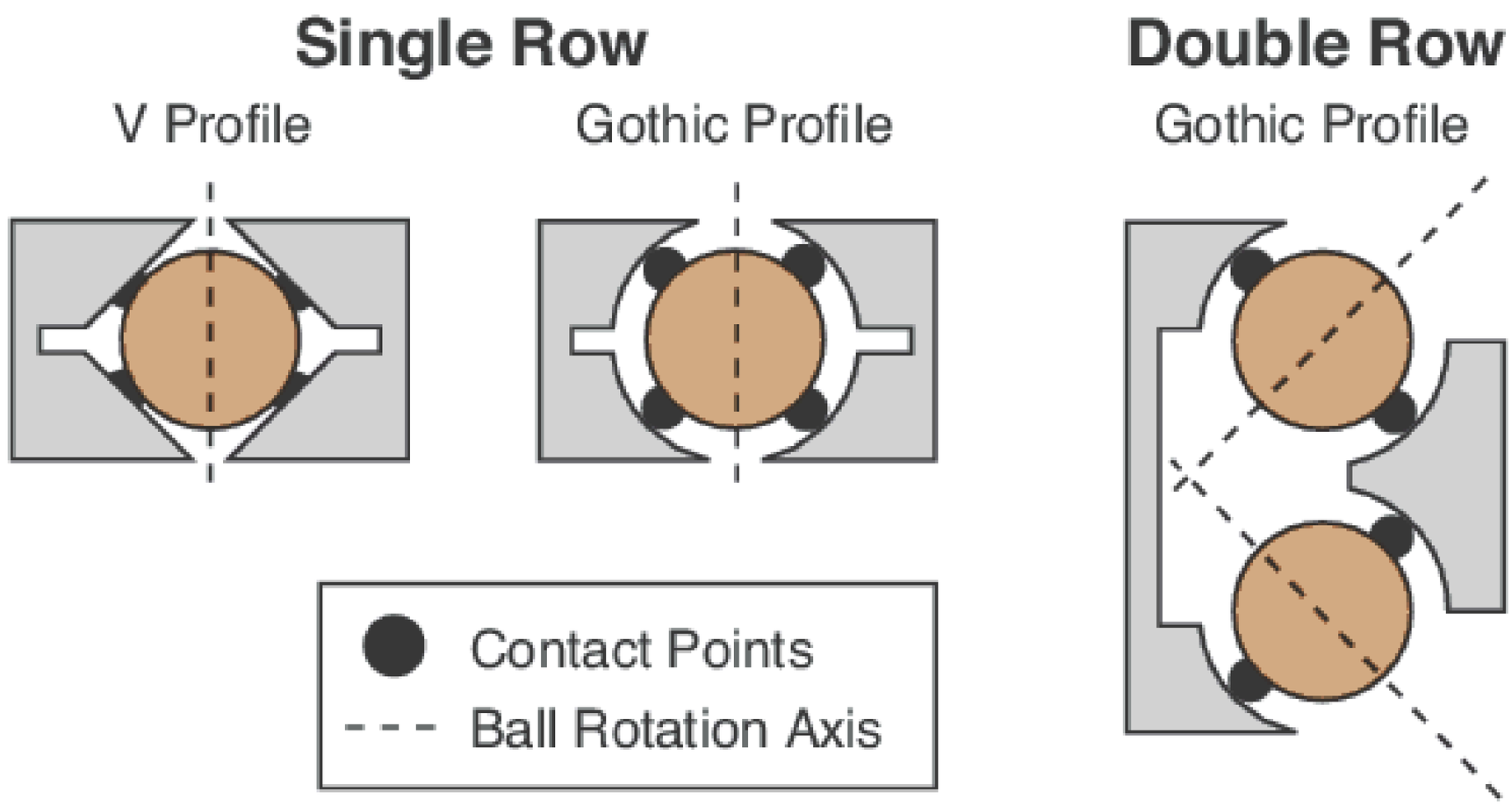
Linear Stage, Double-Row Ball Bearing, 16 mm Travel, M3, M4 and M6



The M-UMR5.16 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 an angular deviation <200 µrad.

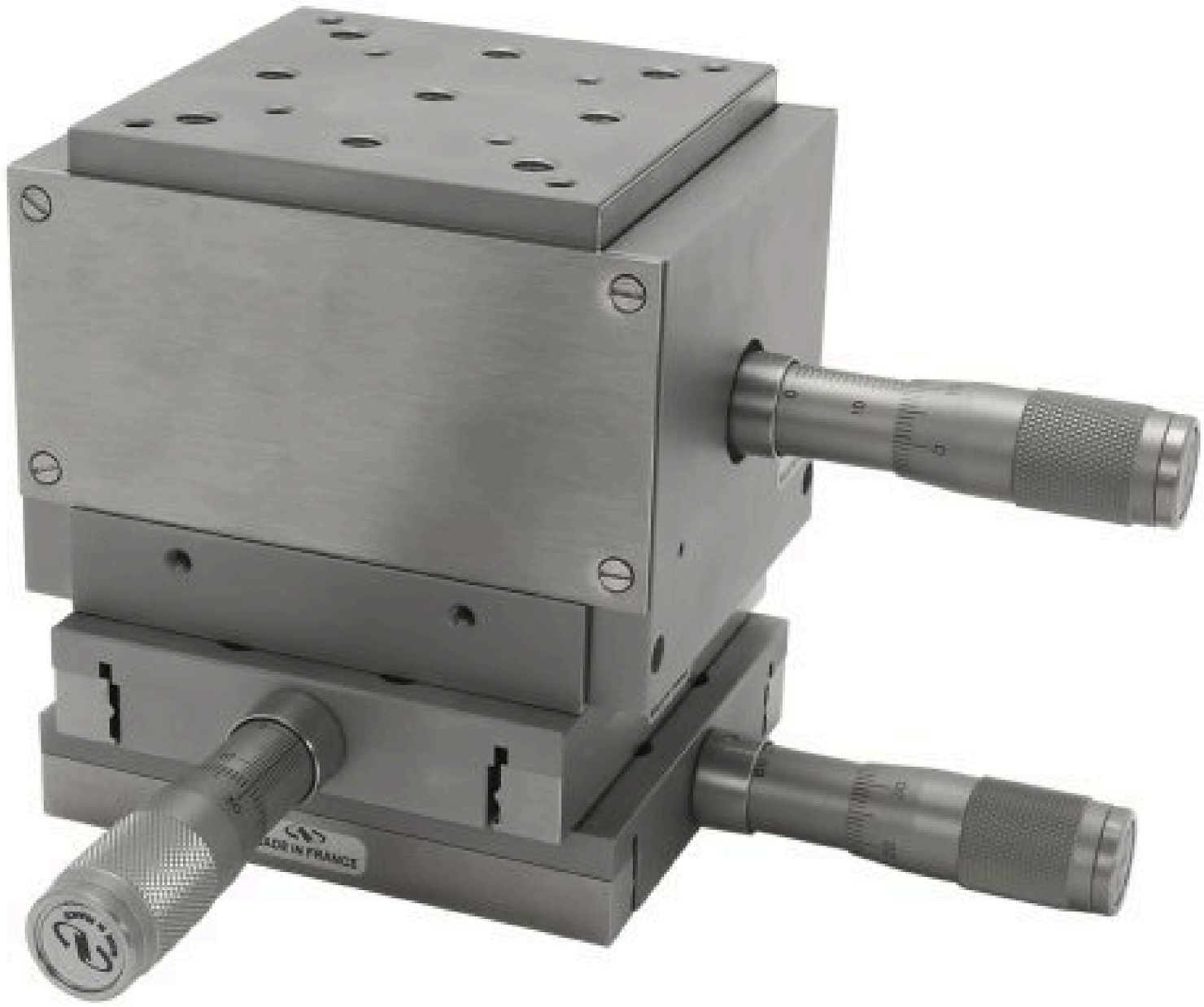
UMR5 Series Stages have double-row ball bearings making them an excellent choice for carrying high loads up to 600 N The moving carriage is preloaded by two springs to ensure constant micrometer contact for smooth, backlash-free motion over a 16 mm travel range.

Double-Row Ball Bearings for Smooth Travel & Heavier Loads



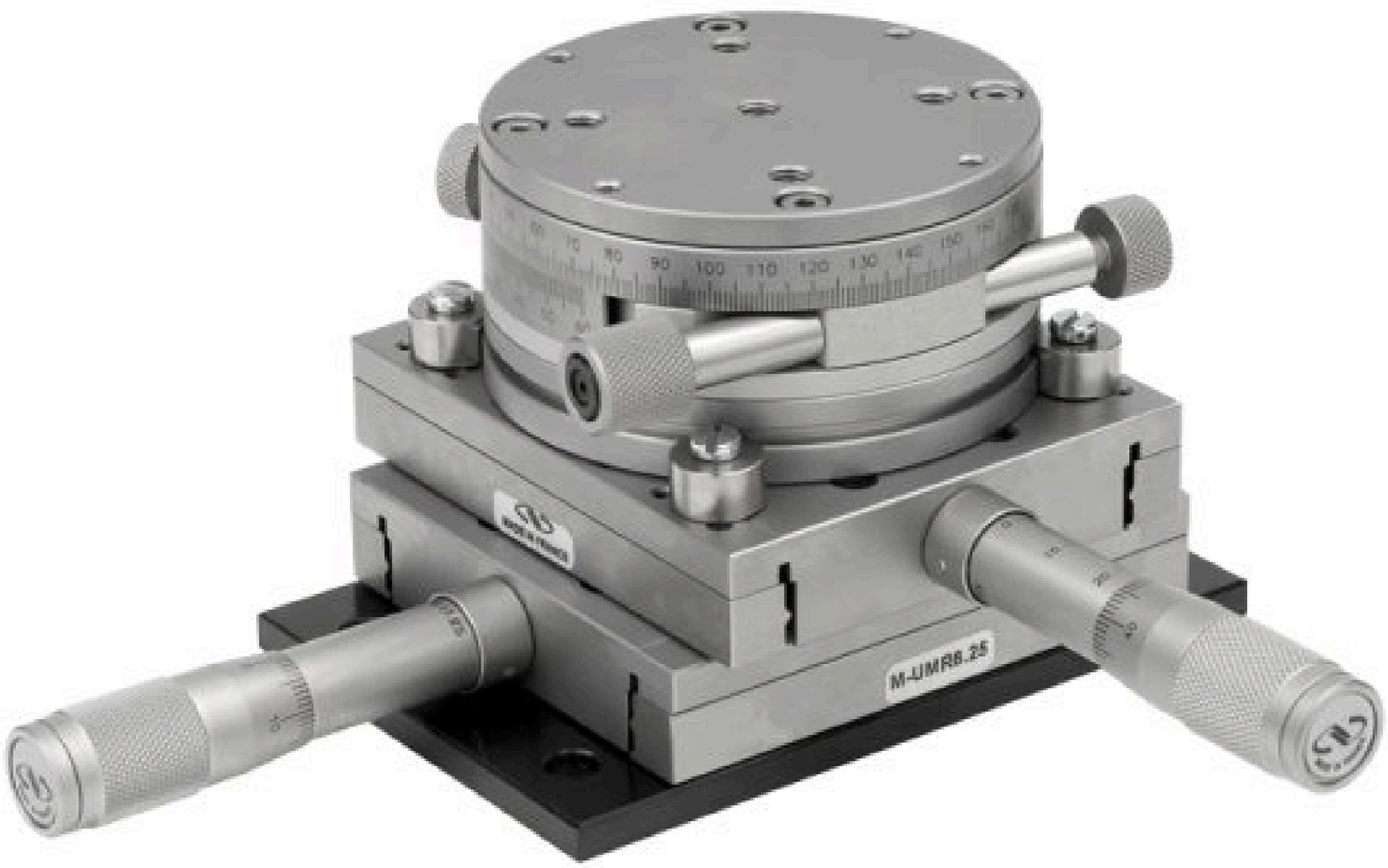
Ball bearing slides provide smoother translation from a rolling motion. Ball bearings are captured in guide ways by means of hardened steel rods with a gothic profile. This creates only two points of contact for minimal friction, and provides extremely smooth travel for even the smallest of incremental movements. Fewer points of contact also mean less differential slip and provide higher load capacities compared to the 4-point contact of other ball-bearing designs. The lower differential slip keeps friction and wear minimal, adding to the durability and lifetime of these stages.

MVN Vertical Stage Compatibility



UMR stages are compatible with MVN Series Vertical Stages allowing you to build XZ or XYZ stage stacks with a horizontal oriented mounting platform. An MVN50 vertical stage is shown on top of UMR5.25 linear stage.

UTR Rotation Stage Compatibility



UMR linear stages are compatible with UTR Series Rotation Stages allowing you to built X or XY stage stacks with a rotatable mounting platform. A UTR80 rotation stage is shown mounted on top of UMR8.25 linear stage.

XYZ Configurations



Abundant tapped hole patterns on these stages are included to provide the most options for mounting components on the stage mounting surface. Two stages can be easily stacked to provide XY translation (except the UMR5.5). Z configuration can be assembled using the EQ Series Angle Brackets. Two XYZ configurations of (3) UMR5.25 linear stages with EQ50 angle brackets are shown.

Compatible Actuators

UMR stages can achieve 1 µm sensitivity when used with BM series standard micrometer heads or 0.1 µm sensitivity with DM series differential micrometers. Select models can also be driven by motorized actuators. Actuators are not included. Refer to the specification tables above to see compatible actuators and required adapters for each UMR stage.

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— Specifications

Axes of Travel	X	**Bearing Constant**	22 mm
Maximum Stage Travel	16 mm	**Drive Location**	Center drive
Centered Normal Load Capacity	600 N	**Drive Torque**	0.05 Nm
Vertical Axial Load Capacity	40 N	**Platform Size**	50 x 58 mm
Angular Deviation	<200 µrad	**Height**	13 mm
Compliance in Pitch	0.2 mrad/Nm	**Thread Type**	M3, M4 and M6
Compliance in Roll	0.1 mrad/Nm	**Recommended BM Micrometer**	BM11.16
Compliance in Yaw	0.2 mrad/Nm	**Recommended DM Differential Micrometer**	DM11-16
Material	Steel		
Bearings	Double-Row Ball Bearings		

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