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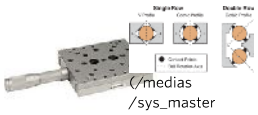
Double-Row Ball Bearing Linear Stage, 25 mm, 900 N Load, Metric

MODEL: M-UMR8.25



$311.00 **In Stock**

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Description

The M-UMR8.25 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 better than 100-200 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 25 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.



(/f/umr-precision-double-row-ball-bearing-linear-stages)

Product Series Overview

UMR Precision, Double Row Ball Bearing Linear Stages (/f/umr-precision-double-row-ball-bearing-linear-stages)

Technical Specs

Axes of Travel	X
Maximum Stage Travel	25 mm
Thread Type	M6
Recommended Actuators	LTA-HL or BM15.25
Load Capacity	900 N
Angular Deviation	<200 µrad
Inverse Axial Load Capacity	1.3 kg
Material	Steel
Bearings	Double-Row Ball Bearings

Bearing Constant	40 mm
Drive Location	Center drive
Drive Torque	0.07 Nm
Centered Load Capacity with BM Micrometer	100 N
Vertical Load Capacity	100 N
Compliance in Roll	0.05 mrad/Nm
Compliance in Pitch	0.05 mrad/Nm
Compliance in Yaw	0.05 mrad/Nm

Resources & Downloads

Other

RoHS Compliance Certificate (/medias/sys_master/images/images/h6d/ha3/8797248454686/RoHS-Compliance-Certificate.pdf) (141.7 kB, PDF)

2D / 3D CAD Software

Download CAD Files

Drawings And Cad

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UMR8 48 25S-S (/medias/sys_master/images/images/h45/h29/8933958975518/UMR8-48-25S-S.pdf) (117.5 kB, PDF)

Related Products

Similar Products

	Compare	Description	Avail.	Price
(/p/M-423)	**M-423 (/p/M-423)** High-Performance Low-Profile Ball Bearing Linear Stage, 25.4 mm, M6		**In Stock**	**$255.00**
(/p/M-UMR5.16)	**M-UMR5.16 (/p/M-UMR5.16)** Double-Row Ball Bearing Linear Stage, 16 mm, 600 N Load, Metric		**In Stock**	**$236.00**
(/p/M-UMR5.25)	**M-UMR5.25 (/p/M-UMR5.25)** Double-Row Ball Bearing Linear Stage, 25 mm Travel, 600N Load, Metric		**In Stock**	**$332.00**
(/p/M-UMR8.4)	**M-UMR8.4 (/p/M-UMR8.4)** Double-Row Ball Bearing Linear Stage, 4 mm, 900 N Load, Metric		**1 Week**	**$311.00**
(/p/M-UMR8.51)	**M-UMR8.51 (/p/M-UMR8.51)** Double-Row Ball Bearing Linear Stage, 51 mm, 900 N Load, Metric		**In Stock**	**$607.00**

Compatible Products

	Compare	Description	Avail.	Price
(/p/DM17-25)	**DM17-25 (/p/DM17-25)** Differential Micrometer, 25.1 mm Coarse, 0.1 mm Fine, 11 lb. Load		**In Stock**	**$527.00**
(/p/LTA-HL)	**LTA-HL (/p/LTA-HL)** High Load Motorized Actuator, 25 mm travel, LTA, M12 thread		**2 Weeks**	**$1,830.00**
(/p/BM17.25)	**BM17.25 (/p/BM17.25)** Standard Resolution Micrometer, 25 mm Travel, 23 lb. Load Capacity		**In Stock**	**$180.00**
(/p/M-BR4)	**M-BR4 (/p/M-BR4)** Mounting Bridle, SL,SK51,M-TTN80,M-UTR80,VGM to M-MVN80,M-TGN80,M-BMG120,M-MTM		**In Stock**	**$37.00**

Accessory Products

	Compare	Description	Avail.	Price
(/p/M-SK-M6A)	**M-SK-M6A (/p/M-SK-M6A)** Black Oxide Screw Kit, M6, Assortment, Qty 261		**In Stock**	**$51.00**
(/p/AW-1)	**AW-1 (/p/AW-1)** Adaptor Washers, 1/4-20 (M6) to 8-32 (M4), Qty 10		**In Stock**	**$15.00**
(/p/CL12-25)	**CL12-25 (/p/CL12-25)** Carriage Lock, UMR8.25, 2 Req. for Fixed Positioning		**2 Weeks**	**$31.00**
(/p/M-BDK-1)	**M-BDK-1 (/p/M-BDK-1)** Ball driver Tool Set, Includes: 1.5, 2, 2.5, 3, 4 & 5 mm Wrenches		**In Stock**	**$26.00**
(/p/ADAPT-BM17-375)	**ADAPT-BM17-375 (/p/ADAPT-BM17-375)** Motorized Actuator Adapter, UMR8 to VP-25AA, LTA-HS, TRA or PZA12		**In Stock**	**$47.00**
(/p/EQ80-E)	**EQ80-E (/p/EQ80-E)** Outer Bracket, Compatible with 80 mm Stages		**In Stock**	**$113.00**
(/p/EQ80-I)	**EQ80-I (/p/EQ80-I)** Inner Bracket, Compatible with 80 mm Stages		**3 Weeks**	**$98.00**
(/p/M-PBN8)	**M-PBN8 (/p/M-PBN8)** Base Plate, Used with UMR8 Series, MVN80 & UTR80 Series		**In Stock**	**$82.00**

Support: (877)835-9620 (tel:(877)835-9620) **Hours:** Monday - Friday, 5am - 5pm PST **Contact Us (/contact-us)**

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