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Find the *Newport M-UMR8.25* at our website: ***Click HERE***

Double-Row Steel Linear Ball Bearing Stages



UMR Series Double-Row Ball Bearing Linear Stages feature a robust steel construction and double-row ball bearings that provide excellent, smooth, linear travel while also capable of carrying high loads. The moving carriage is preloaded by two springs, ensuring constant contact with the micrometer and backlash-free motion.

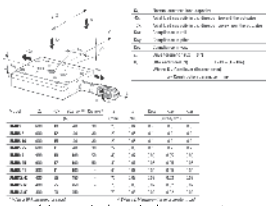
- Linear, single axis, double row ball-bearing stages
- Widest selection of sizes and travel ranges
- Low-profile steel construction for high stability and rigidity
- Centered load capacities up to 200 lb.
- Offered with & without thread mounted micrometers and <200 µrad deviation

Ordering Information

Compare	Model	Drawings, CAD & Specs	Availability	Price
 (/p/M-UMR12.40)	**M-UMR12.40 (/p/M-UMR12.40)** Single-Row Ball Bearing Linear Stage, 40 mm Travel, 400 N Load, Metric		**1 Week**	**$553.00**
 (/p/M-UMR12.40A)	**M-UMR12.40A (/p/M-UMR12.40A)** Single-Row Ball Bearing Aperture Linear Stage, 40mm, 400N Load, Metric		**In Stock**	**$697.00**
 (/p/M-UMR12.63)	**M-UMR12.63 (/p/M-UMR12.63)** Single-Row Ball Bearing Linear Stage, 63 mm Travel, 400 N Load, Metric		**1 Week**	**$746.00**
 (/p/M-UMR12.80)	**M-UMR12.80 (/p/M-UMR12.80)** Single-Row Ball Bearing Linear Stage, 80 mm Travel, 400 N Load, Metric		**1 Week**	**$857.00**
 (/p/M-UMR3.5)	**M-UMR3.5 (/p/M-UMR3.5)** Double-Row Ball Bearing Linear Stage, 5 mm , 600 N Load, Metric		**In Stock**	**$236.00**
 (/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-UMR5.16A)	**M-UMR5.16A (/p/M-UMR5.16A)** Double-Row Ball Bearing Linear Stage, Aperture, 16 mm, 600 N, Metric		**In Stock**	**$284.00**
 (/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-UMR5.25A)	**M-UMR5.25A (/p/M-UMR5.25A)** Double-Row Ball Bearing Linear Stage, Aperture, 25 mm, 600 N Load, Metric		**In Stock**	**$350.00**
 (/p/M-UMR5.5)	**M-UMR5.5 (/p/M-UMR5.5)** Double-Row Ball Bearing Linear Stage, 5 mm Travel, 600 N Load, Metric		**In Stock**	**$332.00**

Shared Specifications

Note: Specifications below are common to all products presented. See Individual product details for complete information.


(/mam/celum/celum_assets/UMR_Load_Characteristics_600w.gif?2)

Axes of Travel	X	**Bearings**	Double-Row Ball Bearings
Material	Alloy Steel	**Drive Location**	Center drive

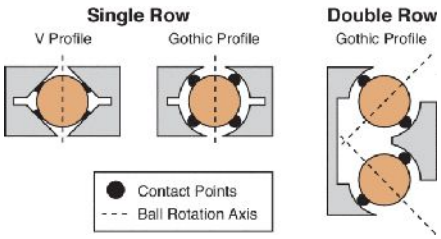
Features

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Low Profile and a Wide Variety of Sizes

These UMR Linear Stages are offered with translation from 0.2 in (5 mm) all the way to 3.15 in (80 mm). Stages can be sold separately or with thread mounted micrometers of either 1 or 0.1 µm sensitivity to fit your particular need. Stages are also available with a center aperture for applications needing optical access.





The type of bearing way, ball diameter, and number of balls affect the load capacity of a stage.

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.

Easy Configuration

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 X-Y translation as well as secure mounting to a table or breadboard with an optional M-PBN Mounting Base (not needed for UMR8 and UMR12). Vertical stage configurations can be easily assembled also using our EQ Series Angle Brackets. Additionally, UMR Stages are compatible with UTR and URM Rotation Stages and BGM Goniometers, which provide countless configuration possibilities to fit the needs of both smaller and larger scale optical systems.



Two UMR5.25 stages with a UTR rotation stage.

Micrometer Actuator Compatibility



UMR stages can achieve 1 µm sensitivity when used with standard BM series micrometer heads or 0.1 µm sensitivity with DM series differential micrometers. Actuators are not included. The compatibility table shows which micrometers we recommend with each UMR linear stage type.

UMR Stage	Standard	Differential
UMR3.5	BM11.5 (/p/BM11.5)	DM11-5 (/p/DM11-5)
UMR5.16(A)	BM11.16 (/p/BM11.16)	DM11-16 (/p/DM11-16)
UMR5.25(A)	BM11.25 (/p/BM11.25)	DM11-25 (/p/DM11-25)
UMR8.4	BM17.04N (/p/BM17.04N)	DM17-4 (/p/DM17-4)
UMR8.25(A)	BM17.25 (/p/BM17.25)	DM17-25 (/p/DM17-25)
UMR8.51	BM17.51 (/p/BM17.51)	
UMR12.40(A)	BM25.40 (/p/BM25.40)	
UMR12.63	BM25.63 (/p/BM25.63)	
UMR12.80	BM32.80 (/p/BM32.80)	

Optical Mount Application

Low profile UMR stages work great for XY positioning of optical mounts in optical systems.

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Two UMR stages with an SL optical mount.

Accessories

UMR Compatible Actuators

	Compare	Description	Avail.	Price
(/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/ADAPT-BM25-375)	**ADAPT-BM25-375 (/p/ADAPT-BM25-375)**	Motorized Actuator Adapter, UMR12 to VP-25AA, LTA-HS, or PZA12	**1 Week**	**$47.00**
(/p/BM11.5)	**BM11.5 (/p/BM11.5)**	Standard Resolution Micrometer, 5 mm Travel, 9 lb. Load Capacity	**In Stock**	**$139.00**
(/p/BM11.16)	**BM11.16 (/p/BM11.16)**	Standard Resolution Micrometer, 16 mm Travel, 9 lb. Load Capacity	**In Stock**	**$159.00**
(/p/BM11.25)	**BM11.25 (/p/BM11.25)**	Standard Resolution Micrometer, 25 mm Travel, 9 lb. Load Capacity	**In Stock**	**$170.00**
(/p/BM17.04N)	**BM17.04N (/p/BM17.04N)**	Standard Resolution Micrometer, 4 mm Travel, 23 lb. Load Capacity	**In Stock**	**$228.00**
(/p/BM17.25)	**BM17.25 (/p/BM17.25)**	Standard Resolution Micrometer, 25 mm Travel, 23 lb. Load Capacity	**In Stock**	**$180.00**
(/p/BM17.51)	**BM17.51 (/p/BM17.51)**	Standard Resolution Micrometer, 51 mm Travel, 23 lb. Load Capacity	**In Stock**	**$211.00**
(/p/BM25.40)	**BM25.40 (/p/BM25.40)**	Standard Resolution Micrometer, 40 mm Travel, 100 lb. Load Capacity	**In Stock**	**$343.00**
(/p/BM25.63)	**BM25.63 (/p/BM25.63)**	Standard Resolution Micrometer, 63 mm Travel, 100 lb. Load Capacity	**In Stock**	**$432.00**

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	Compare	Description	Avail.	Price
 (/p/BM32.80)		**BM32.80 (/p/BM32.80)** Standard Resolution Micrometer, 80mm Travel, 100 lb. Load Capacity	**In Stock**	**$558.00**
(/p/DM11-5)		**DM11-5 (/p/DM11-5)** Differential Micrometer, 5.1 mm Coarse, 0.1 mm Fine, 6.6 lb. Load	**In Stock**	**$296.00**
 (/p/DM11-16)		**DM11-16 (/p/DM11-16)** Differential Micrometer, 16.1 mm Coarse, 0.1 mm Fine, 6.6 lb. Load	**In Stock**	**$357.00**
(/p/DM11-25)		**DM11-25 (/p/DM11-25)** Differential Micrometer, 25.1 mm Coarse, 0.1 mm Fine, 6.6 lb. Load	**In Stock**	**$388.00**
 (/p/DM17-4)		**DM17-4 (/p/DM17-4)** Differential Micrometer, 4.1 mm Coarse, 0.1 mm Fine, 11 lb. Load	**In Stock**	**$415.00**
(/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**

Carriage Locks

	Compare	Description	Avail.	Price
 (/p/CL3-5)		**CL3-5 (/p/CL3-5)** Carriage Lock, UMR3.5	**5 Weeks**	**$41.00**
 (/p/CL6-5)		**CL6-5 (/p/CL6-5)** Carriage Lock, UMR5.5, 2 Req. for Fixed Positioning	**In Stock**	**$31.00**
 (/p/CL6-16)		**CL6-16 (/p/CL6-16)** Carriage Lock, UMR5.16, 2 Req. for Fixed Positioning	**In Stock**	**$31.00**
 (/p/CL6-25)		**CL6-25 (/p/CL6-25)** Carriage Lock, UMR5.25, 2 Req. for Fixed Positioning	**In Stock**	**$31.00**
 (/p/CL12-4)		**CL12-4 (/p/CL12-4)** Carriage Lock, UMR8.4, 2 Req. for Fixed Positioning	**5 Weeks**	**$31.00**
 (/p/CL12-25)		**CL12-25 (/p/CL12-25)** Carriage Lock, UMR8.25, 2 Req. for Fixed Positioning	**2 Weeks**	**$31.00**
 (/p/CL12-51)		**CL12-51 (/p/CL12-51)** Carriage Lock, UMR8.51, 2 Req. for Fixed Positioning	**In Stock**	**$31.00**
 (/p/CL18-40)		**CL18-40 (/p/CL18-40)** Carriage Lock, UMR12.40 or UMR12.40A	**In Stock**	**$31.00**
 (/p/CL18-63)		**CL18-63 (/p/CL18-63)** Carriage Lock, UMR12.63	**In Stock**	**$31.00**
 (/p/CL22-80)		**CL22-80 (/p/CL22-80)** Carriage Lock, UMR12.80	**5 Weeks**	**$31.00**

UMR Accessories

	Compare	Description	Avail.	Price

	Compare	Description	Avail.	Price
 (/p/FP3-5)		**FP3-5 (/p/FP3-5)** Fixed Positioning Kit, UMR3.5	**In Stock**	**$47.00**
 (/p/FP18-40)		**FP18-40 (/p/FP18-40)** Fixed Positioning Kit, UMR12.40	**5 Weeks**	**$31.00**
 (/p/FP22-80)		**FP22-80 (/p/FP22-80)** Fixed Positioning Kit, UMR12.80	**In Stock**	**$31.00**
 (/p/M-PBN3)		**M-PBN3 (/p/M-PBN3)** Base Plate, Used with UMR3.5 Linear Stage	**In Stock**	**$51.00**
 (/p/M-PBN5)		**M-PBN5 (/p/M-PBN5)** Base Plate, Used with UMR5 Series, MVN50 & UTR46 Series	**In Stock**	**$61.00**
 (/p/M-PBN8)		**M-PBN8 (/p/M-PBN8)** Base Plate, Used with UMR8 Series, MVN80 & UTR80 Series	**In Stock**	**$82.00**
 (/p/M-PBN12)		**M-PBN12 (/p/M-PBN12)** Base Plate, Used with UMR12 Series, MVN120 & UTR120 Series	**3 Weeks**	**$102.00**

Related Products



(/f/precision-steel-rotation-stages-utr-series)



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



(/f/90-degree-angle-brackets-eq-series)



(/f/bm-thread-mount-micrometer-heads)



(/f/dm-thread-mount-differential-micrometers-heads)



(/f/base-plates-pbn-series)

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