ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Newport UMR5.16* at our website: ***Click HERE***

Linear Stage, Double-Row Ball Bearings, 0.63 in., 4-40, 8-32 and 1/4-20



Overview

The UMR5.16 Precision Double-Row Ball Bearing 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 135 lb. The moving carriage is preloaded by two springs to ensure constant micrometer contact for smooth, backlash-free motion over a 0.63 inch 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 (M-PBN Mounting Base required). 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**	0.05 Nm
Maximum Stage Travel	16 mm	**Compliance in Roll**	0.1 mrad/Nm
Thread Type	4-40, 8-32 and 1/4-20	**Compliance in Pitch**	0.2 mrad/Nm
Load Capacity	600 N	**Compliance in Yaw**	0.2 mrad/Nm
Vertical Load Capacity	40 N	**Platform Size**	50 x 58 mm
Angular Deviation	<200 µrad	**Height**	13 mm
Material	Steel	**Recommended BM Micrometer**	BM11.16
Bearings	Double-Row Ball Bearings	**Recommended DM Differential Micrometer**	DM11-16
Bearing Constant	22 mm	**Travel Requirement**	12.7 to 25.4 mm
Drive Location	Center drive		

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP