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TECHNOLOGY GROUP

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Find the *Newport 423* at our website: ***Click HERE***

Extended Range Ball Bearing Linear Stages



423 shown with SM-25 and 433 shown with SM-50 . Actuators sold separately

423/433/443 long-range, ball bearing, linear translation stages are a staple in any optical laboratory. They are easily fit with manual or motorized actuators in a right or left handed configuration, as well as multiple tapped holes for mounting optical components, and can be stacked together for multi-axes use.

- Ball-bearings provide smooth lockable translation over extra long travel ranges
- Right-hand/Left-hand configurable and stackable to fit any basic translation need
- Can be used with both manual and motorized actuators

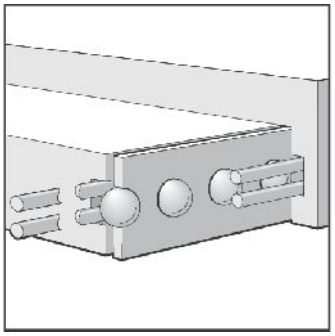
Ordering Information

Compare	Model	Drawings, CAD & Specs	Availability	Price
(/p/423)	**423 (/p/423)** High-Performance Low-Profile Ball Bearing Linear Stage, 1.0 in., 1/4-20		**In Stock**	**$255.00**
(/p/423-MIC)	**423-MIC (/p/423-MIC)** Linear Stage Bundle, Three 423 Linear Stages with SM-25 Micrometers		**In Stock**	**$765.00**
(/p/433)	**433 (/p/433)** High-Performance Low-Profile Ball Bearing Linear Stage, 1.81 in.,1/4-20		**In Stock**	**$296.00**
(/p/443)	**443 (/p/443)** High-Performance Low-Profile Ball Bearing Linear Stage, 2.0 in., 1/4-20		**In Stock**	**$317.00**
(/p/443-4)	**443-4 (/p/443-4)** High-Performance Low-Profile Ball Bearing Linear Stage, 4.0 in., 1/4-20		**In Stock**	**$317.00**
(/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-423-MIC)	**M-423-MIC (/p/M-423-MIC)** Linear Stage Bundle, Three M-423 Linear Stages with SM-25 Micrometers		**In Stock**	**$765.00**
(/p/M-433)	**M-433 (/p/M-433)** High-Performance Low-Profile Ball Bearing Linear Stage, 46 mm, M6		**In Stock**	**$296.00**
(/p/M-443)	**M-443 (/p/M-443)** High-Performance Low-Profile Ball Bearing Linear Stage, 50.8 mm, M6		**In Stock**	**$317.00**
(/p/M-443-4)	**M-443-4 (/p/M-443-4)** High-Performance Low-Profile Ball Bearing Linear Stage, 101.6 mm, M6		**Quote**	**$317.00**

Features

Ball-bearings Provide Smooth Linear Translation

Ball bearings in these stages reduce friction compared with rolling motion to guide linear translation. Although the guide ways are externally loaded to eliminate unwanted runout in the bearings, friction remains negligible to provide smooth travel over the entire range. The motion of each axis can easily be locked in place.

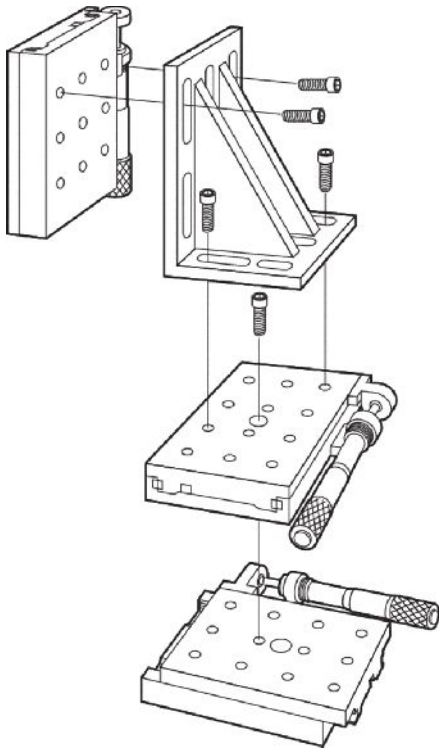


Preloaded precision ball bearing movements provide reduced friction and capability to make small controlled movements. Bearings are captured in hardened steel rod guides.

Multi-axis Configurations & Fast Integration Into Most Set-ups

Easily combine and stack these light-weight stages together for a low-profile,

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multi-axis system. Newport mounting brackets are available for the addition of a vertical axis, as well as many other additional accessories that allow you to easily and quickly adapt these stages to your particular needs. A stainless steel actuator mounting system allows your choice of manual or motorized actuators to be attached in either a left- or right-hand configuration.

Compatible With Manual or Motorized Actuators

These stages are sold without actuators, allowing you to customize the translation for your desired precision. Actuators can be easily and quickly interchanged for any necessary adaptations after installation. Adjustment screws, Vernier micrometers, differential micrometers, and motorized actuators all fit the stainless steel actuator mounts on these stages.



Order actuators separately. 443 is shown with SM-50 . 443-4 requires two SM-50s.

Accessories

Angle Brackets

	Compare	Description	Avail.	Price
 (/p/360-30)		**360-30 (/p/360-30)** Angle Bracket, 30°/60°, Slotted Faces	**In Stock**	**$102.00**
 (/p/360-45)		**360-45 (/p/360-45)** Angle Bracket, 45°, Slotted Faces	**In Stock**	**$92.00**
 (/p/360-90)		**360-90 (/p/360-90)** Angle Bracket, 90°, Slotted Faces	**In Stock**	**$72.00**
 (/p/M-360-90)		**M-360-90 (/p/M-360-90)** Angle Bracket, 90°, Slotted Faces, Metric	**1 Week**	**$72.00**

Actuators Blocks

	Compare	Description	Avail.	Price

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	Compare	Description	Avail.	Price
 (/p/AB-3)		**AB-3 (/p/AB-3)** Actuator Mounting Block, Spare, 423/433/443 Stages	**In Stock**	**$19.50**
 (/p/AB-4)		**AB-4 (/p/AB-4)** Actuator Push Block, Spare, 423/433/443 Stages	**In Stock**	**$20.50**

Compatible Actuators

	Compare	Description	Avail.	Price
 (/p/AJS100-1)		**AJS100-1 (/p/AJS100-1)** Precision 100 TPI Adjustment Screw, 25.4 mm, Small Knob, Side Lock	**In Stock**	**$28.00**
 (/p/AJS100-2)		**AJS100-2 (/p/AJS100-2)** Precision 100 TPI Adjustment Screw, 50.8 mm, Small Knob, Side Lock	**In Stock**	**$31.00**
 (/p/DM-13L)		**DM-13L (/p/DM-13L)** Lockable Differential Micrometer, 13 mm Coarse, 0.2 mm Fine, 11 lb.	**In Stock**	**$510.00**
(/p/DM-25L)		**DM-25L (/p/DM-25L)** Lockable Differential Micrometer, 25 mm Coarse, 0.2 mm Fine,11 lb. Load	**In Stock**	**$537.00**
(/p/HR-13)		**HR-13 (/p/HR-13)** High Resolution Micrometer, 0.5 µm Sensitivity, 13 mm Travel	**In Stock**	**$158.00**
 (/p/LTA-HS)		**LTA-HS (/p/LTA-HS)** High Speed LTA Motorized Actuator, 50 mm travel, LTA, 3/8-40 thread	**2 Weeks**	**$1,745.00**
 (/p/PZA12)		**PZA12 (/p/PZA12)** NanoPZ Ultra-High Resolution Actuator, 12.5mm Travel	**In Stock**	**$1,051.00**
 (/p/SM-13)		**SM-13 (/p/SM-13)** Vernier Micrometer, 13 mm Travel, 9 lb Load Capacity, 50.8 TPI	**In Stock**	**$72.00**
 (/p/SM-25)		**SM-25 (/p/SM-25)** Vernier Micrometer, 25 mm Travel, 23 lb Load Capacity, 50.8 TPI	**In Stock**	**$112.00**
 (/p/SM-50)		**SM-50 (/p/SM-50)** Vernier Micrometer, 50 mm Travel, 23 lb Load Capacity, 50.8 TPI	**In Stock**	**$211.00**
 (/p/TRA25CC)		**TRA25CC (/p/TRA25CC)** Miniature Motorized Actuator, 25 mm Travel, DC Servo Motor	**In Stock**	**$763.00**

Related Products












(/c/micrometer-heads)

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(/c/manual-rotation-stages)

Manual Rotation Stages (/c/manual-rotation-stages)

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

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