



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

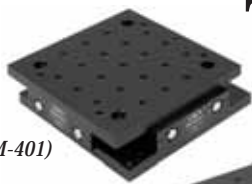
Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

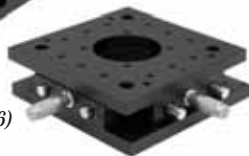
Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

# 401/406 Series High-Performance Large Platform Two-Axis Linear Stages



401 (M-401)



406 (M-406)

- Large platform for stable positioning of large objects
- Stable in vertical orientation
- Compatible with Newport manual and motorized actuators
- Ball bushing stage has 100 lb (450 N) load capacity
- 0.5 in. (13 mm) travel

401 and 406 are shown with SM Series micrometers. Order actuators separately.

The 401 and 406 Series High-Performance Large Platform Two-Axis Linear Stages integrate two orthogonal positioners into a single low profile unit. These stages offer high load capacity in a design based on three parallel plates. Bearing blocks in the top and bottom plates hold pre-loaded linear ball bushings. The inner plate supports pairs of hardened and polished steel rods that ride in the bushings.

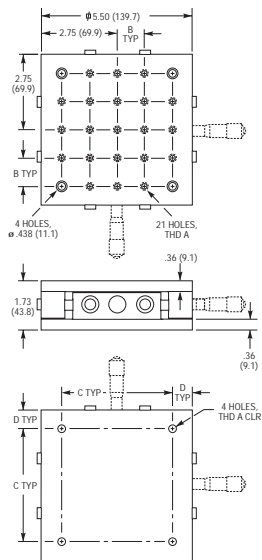
Backlash is eliminated by spring loading the moving assemblies against the tip of the actuator. The stages may be mounted in any orientation.

Solid platform and aperture platform versions are offered. Each features a convenient array of 1/4-20 or M6 tapped holes. The 2.25 in. (57.2 mm) diameter aperture of Model 406 closes to a minimum of 1.875 in. (47.6 mm) at the maximum diagonal displacement of the stage.

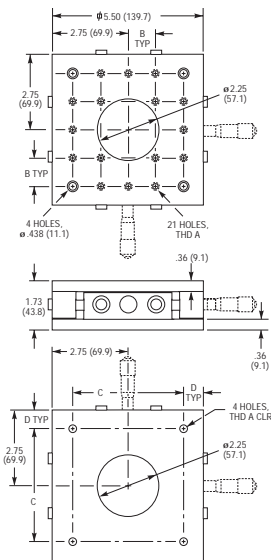
## Recommended Actuators

Manual Drives	Description	Travel (mm)	Sensitivity (µm)
AJS Series (page 921)	Fine Adjustment Screw	13	0.6 - 0.75
SM-13 (page 923)	Micrometer	13	1
HR-13 (page 925)	High-Resolution Micrometer	13	0.5
DM-13 (page 928)	Differential Micrometer	13	0.1
M-13L (page 926)	Differential Micrometer	13	0.1
Motorized Drives			
CMA Series (page 839)	Motorized Actuator	12.5	0.2-0.5
NSA12 (page 838)	Motorized Actuator	11	0.2
PZA12 Actuator (page 834)	NanoPZ actuator, 12.5 mm travel	12.5	0.03

### Model 401



### Model 406



## Specifications

Maximum Stage Travel [in. (mm)]	0.5 (13)
Angular Deviation (µrad)	<200
Max Centered Load [lb (N)]	100 (450)
Load Capacity, Vertical [lb (N)]	15 (67)

## Ordering Information

### Stages

Model (Metric)	Description	Actuators Required
401 (M-401)	Solid Platform	2
406 (M-406)	Aperture Platform	2



Miniature Stepper Motor Actuators (see page 838)



AJS High-Precision Adjustment Screws (see page 921)



The DM-13L Lockable Differential Micrometer (see page 926)

Model (Metric)	Thread				Dimensions [in. (mm)]			
	A	B	C	D	A	B	C	D
401 (M-401)	1/4-20 (M6)	1.000 (25.0)	4.000 (100.0)	0.75 (19.8)				
406 (M-406)	1/4-20 (M6)	1.000 (25.0)	4.000 (100.0)	0.75 (19.8)				

MANUAL LINEAR STAGES

MANUAL ROTATION AND TILT STAGES

MANUAL ACTUATORS

MANUAL FIBER ALIGNMENT



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)