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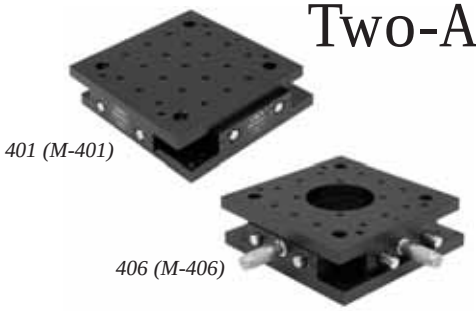
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Find the *Newport 401* at our website: ***Click HERE***

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.

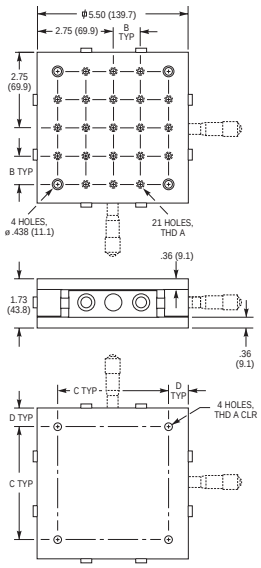
Backlash is eliminated by spring loading the moving assemblies against the tip of the actuator. The stages may be mounted in any orientation.

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.

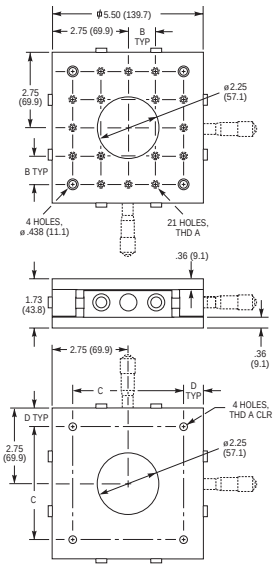
Recommended Actuators

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 A	Dimensions [in. (mm)] 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)

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