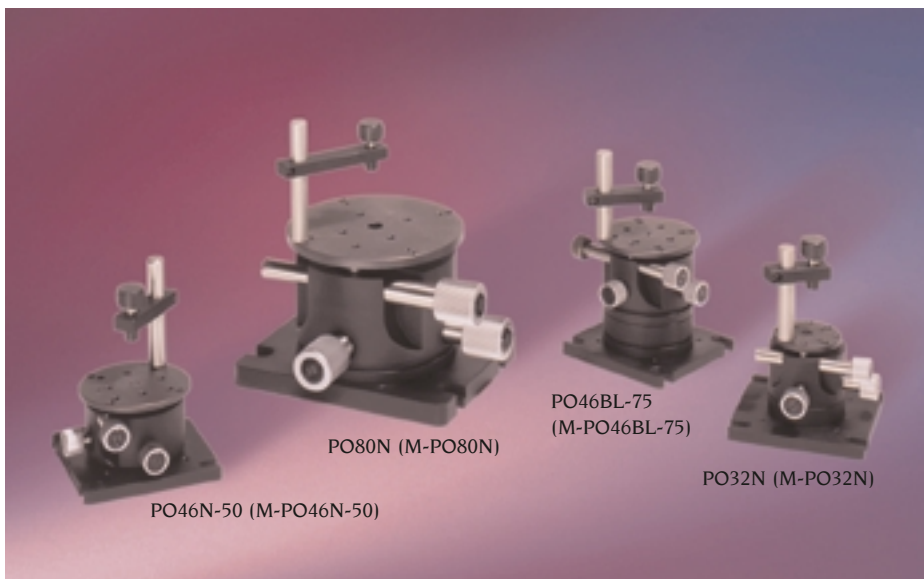


## PO Series

## Tilt and Rotation Stages

## Key Features

- Orthogonal, coplanar angular adjustment
- Uncoupled tilt adjustments with sensitivity to 1 arc sec
- Standard or lockable adjustment screws or differential micrometer



**PO Tilt/Rotation Stages provide two independent tilt adjustments** plus the added versatility of an in-plane rotation adjustment. These adjustments allow optical components like prisms and acousto-optic modulators to be oriented parallel to a desired plane, and then rotated within that plane. Three high-resolution drive options—standard adjustment screws, lockable adjustment screws, or differential micrometers—provide exceptional resolution. All three axes

are spring-loaded to eliminate backlash.

For easy insertion and removal of optical components, a mounting clamp is included. The spring-loaded clamp securely, yet gently, holds optics to the platform.

For mounting to other positioners, BR3 and BR4 Bridles can be used for PO46 and PO80 stages, respectively, in lieu of the removable base plate.

## Specifications

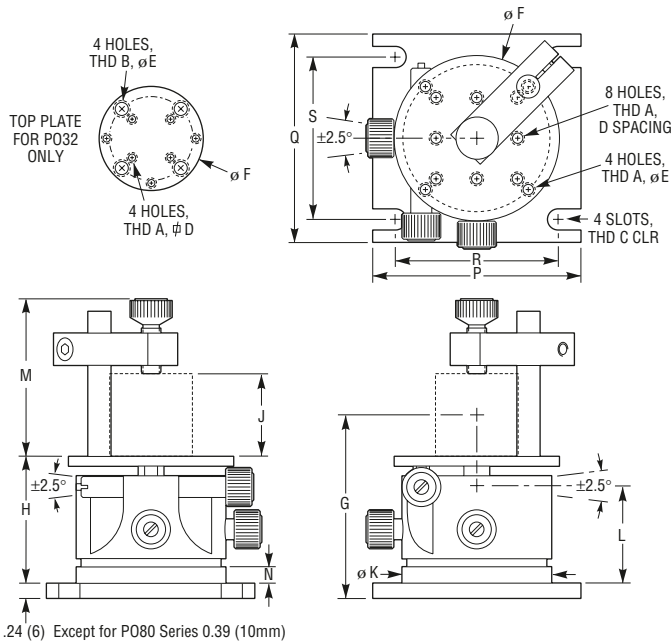
	PO32 (M-PO32)	PO46 (M-PO46)	PO80 (M-PO80)
Tilt	±2.5°	±2.5°	±2.5°
Rotation	±2.5°	±2.5°	±2.5°
Sensitivity* (all axes) (arc sec)	2 to 3	2 to 3	1
Load Capacity [lb (N)]	6.1 (27)	11.2 (50)	22.5 (100)

\*Using standard adjustment screws. Differential screws will be approximately 10 times more sensitive.

## Ordering Information

Model (Metric)	Actuators	Price
<b>Stage for 12.7 mm optics with 50 mm optical axis height</b>		
PO32N (M-PO32N)	Standard adjustment screws	\$391
PO32BL (M-PO32BL)	Locking adjustment screws	\$501
<b>Stage for 25.4 mm optics with 50 mm optical axis height</b>		
PO46N-50 (M-PO46N-50)	Standard adjustment screws	\$379
PO46BL-50 (M-PO46BL-50)	Locking adjustment screws	\$490
PO46BD-50 (M-PO46BD-50)	Differential micrometers	\$844
<b>Stage for 25.4 mm optics with 75 mm optical axis height</b>		
PO46N-75 (M-PO46N-75)	Standard adjustment screws	\$383
PO46BL-75 (M-PO46BL-75)	Locking adjustment screws	\$490
PO46BD-75 (M-PO46BD-75)	Differential micrometers	\$844
<b>Stage for 50.8 mm optics with 100 mm optical axis height</b>		
PO80N (M-PO80N)	Standard adjustment screws	\$538
PO80BL (M-PO80BL)	Locking adjustment screws	\$623
PO80BD (M-PO80BD)	Differential micrometers	\$1,003

### PO Series



## Related Products



Prisms page 441

See our website for CAD files.

Model (Metric)	Thread				Dimension [in. (mm)]													
	A	B	C	D	E	F	G	H	J	J	K	L	M	N	P	Q	R	S
									Min	Max								
PO32 (M-PO32)	4-40 (M2.5)	8-32 (M4)	1/4-20 (M6)	0.472 (12.0)	1.00 (25.0)	1.26 (32)	1.97 (50)	1.14 (29)	0.50 (12.7)	0.79 (20)	1.42 (36)	1.36 (34.5)	1.77 (45)		2.52 (64)	2.52 (64)	2.00 (50)	2.00 (50)
PO46-50 (M-PO46-50)	8-32 (M4)		1/4-20 (M6)	0.500 (12.5)	1.77 (45.0)	2.00 (50.8)	1.97 (50)	1.25 (31.7)	1.18 (30)	1.25 (31.8)	1.81 (46)	0.89 (22.7)	2.17 (55)		2.52 (64)	2.52 (64)	2.00 (50)	2.00 (50)
PO46-75 (M-PO46-75)	8-32 (M4)		1/4-20 (M6)	0.500 (12.5)	1.77 (45.0)	2.00 (50.8)	2.95 (75)	2.20 (55.9)	1.18 (30)	1.25 (31.8)	1.81 (46)	1.83 (46.5)	2.17 (55)	0.20 (5)	2.52 (64)	2.52 (64)	2.00 (50)	2.00 (50)
PO80 (M-PO80)	8-32 (M4)		1/4-20 (M6)	1.000 (25.0)	3.19 (81.0)	3.46 (88)	3.94 (100)	2.52 (64)	2.25 (57.2)	2.32 (58.9)	3.15 (80)	2.08 (52.8)	3.23 (82)	0.24 (6)	4.53 (115)	3.54 (90)	4.00 (100)	2.00 (50)