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TECHNOLOGY GROUP

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

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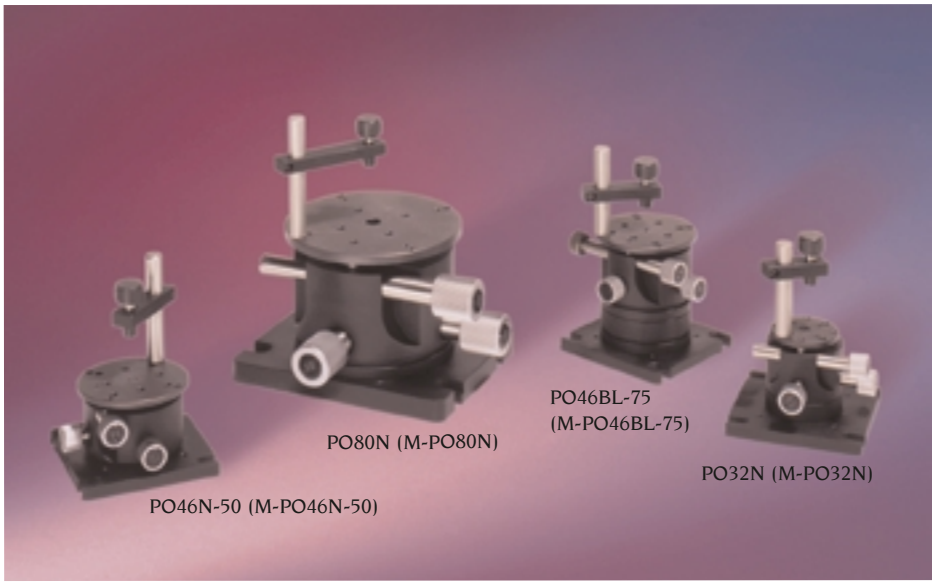
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Find the *Newport PO80BL* at our website: ***Click HERE***

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)

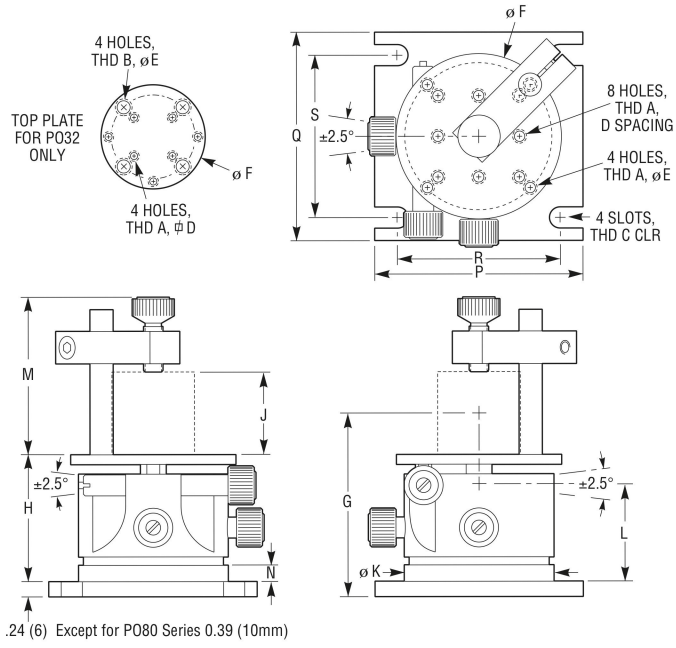
*Using standard adjustment screws. Differential screws will be approximately 10 times more sensitive.

Phone: 1-800-222-6440 • Fax: 1-949-253-1680

Ordering Information

Model (Metric)	Actuators
Stage for 12.7 mm optics with 50 mm optical axis height	
PO32N (M-PO32N)	Standard adjustment screw
PO32BL (M-PO32BL)	Locking adjustment screw
Stage for 25.4 mm optics with 50 mm optical axis height	
PO46N-50 (M-PO46N-50)	Standard adjustment screw
PO46BL-50 (M-PO46BL-50)	Locking adjustment screws
PO46BD-50 (M-PO46BD-50)	Differential micrometers
Stage for 25.4 mm optics with 75 mm optical axis height	
PO46N-75 (M-PO46N-75)	Standard adjustment screws
PO46BL-75 (M-PO46BL-75)	Locking adjustment screws
PO46BD-75 (M-PO46BD-75)	Differential micrometers
Stage for 50.8 mm optics with 100 mm optical axis height	
PO80N (M-PO80N)	Standard adjustment screws
PO80BL (M-PO80BL)	Locking adjustment screws
PO80BD (M-PO80BD)	Differential micrometers

PO Series



.24 (6) Except for PO80 Series 0.39 (10mm)

Related Products



Prisms page 441

See our website for CAD files.

	Thread			Dimension [in. (mm)]														
Model (Metric)	A	B	C	D	E	F	G	H	J Min	J Max	K	L	M	N	P	Q	R	S
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)

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