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Multi-Axis Optical Fiber Positioners



FP Series Fiber Optic Positioners provide multi-axis precision positioning for bare, connectorized, or polarization-preserving fibers with newly improved, high-resolution, 100 TPI adjustment screws. Positioning is controlled with easy to handle knobs that lock securely with a hex key.

- Multi-axis precision positioning for bare, connectorized, or PM fibers
- 100 TPI XYθXθY adjustment screws, 80 TPI Z adjustment knob
- Large diameter knobs with hex socket for increased sensitivity
- Non-influencing locks maintain stable alignment
- Wide assortment of interchangeable fiber accessories

Specifications

	Model	Axes of Travel	Fiber Type	Travel Range	Angular Range	Sensitivity
	**FP-1A**	X, Y, Z	Bare	X,Y: ±1.6 mm Z: ±3.6 mm		X,Y: 0.75 µm Z: 1 µm
	**FP-2A**	X, Y, Z, θx, θy	Bare	X,Y: ±1.6 mm Z: ±3.6 mm	θx,θy: ±3°	X,Y: 0.75 µm Z: 1 µm θx,θy: 3.8 arc sec
	**FPR-1A**	X, Y, Z, θz	Bare	X,Y: ±1.6 mm Z: ±3.6 mm	θz: 360°	X,Y: 0.75 µm Z: 1 µm
	**FPR-2A**	X, Y, Z, θx, θy, θz	Bare	X,Y: ±1.6 mm Z: ±3.6 mm	θx,θy: ±3° θz: 360°	X,Y: 0.75 µm Z: 1 µm θx,θy: 3.8 arc sec
	**FPR1-C1A**	X, Y, Z, θz	Connectorized	X,Y: ±1.6 mm Z: ±3.2 mm	θz: 360°	X,Y: 0.75 µm Z: 1 µm
	**FPR2-C1A**	X, Y, Z, θx, θy, θz	Connectorized	X,Y: ±1.6 mm Z: ±3.2 mm	θx,θy: ±5° θz: 360°	X,Y: 0.75 µm Z: 1 µm θx: 6.3 arc sec θy: 7.6 arc sec

Features

Precision Control for Bare or Connectorized Fibers

FP Series Fiber Optic Positioners provide three- to six-axis precision positioning with an 80 TPI adjustment screw for Z positioning and 100 TPI screws for all other axes. The XY range of motion for these positioners is ±0.063 in. (±1.6 mm), and the Z range is ±0.14 in. (±3.6 mm) or ±0.125 (±3.2 mm), depending on the model.

Three- and five-axis positioners are available for bare fibers (models FP-1A and FP-2A). For bare polarization-preserving fibers, models FPR-1A and FPR-2A support the same bare fiber chucks as FP-1A and FP-2A do and also include an additional rotational positioning about the fiber axis.

For connectorized fibers, models FPR1-C1A and FPR2-C1A provide four- and six-axis positioning control, respectively. As the models for connectorized fibers feature rotational control about the fiber axis, they are suitable for polarization-preserving fibers as well.

A single positioner supports multiple chuck styles, all available separately from the Fiber Chucks and Holders family.





FP-2A with FPH-J

Positioners Locl

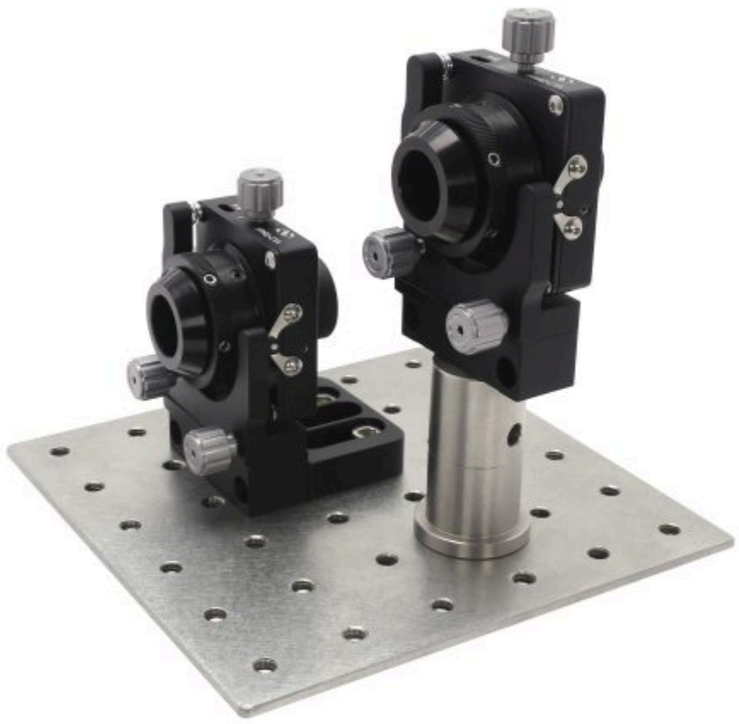
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Mount to Optical Posts

All FP Series Fiber Optic Positioners have threaded 8-32 and M4 holes in their base for mounting to optical posts. FPR2-C1A is also provided with a slotted base plate for mounting directly to an optical table, which can be mounted on either side of the positioner.



Related Products

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