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Suprema® Industrial Low-Drift Mirror Mounts

Newport's stainless steel Suprema industrial Mirror Mounts are specifically designed for "Set and Forget" OEM applications. They all have the features necessary for industrial applications: 1) slim and compact geometry, 2) hex key (knobless) adjusters to save space and prevent tampering, 3) locking for added long-term stability.

- Suprema performance for industrial applications
- Heat-treated stainless steel construction
- Locking 100-TPI adjustment screws
- Precision-polished ultra-hard carbide pads
- Clear edge and closed aperture designs
- Slim profile with front- or rear-load mirror mounting

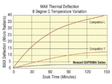


Compare	Model	Drawings, CAD & Specs	Optic Diameter	Drive Type	Adjustments	Sensitivity	Special Features
	SC100-F2H Suprema Clear Edge Mirror Mount, 1.0 in., (2) 100-TPI Locking Hex		25.4 mm	Allen-Key, locking	θx, θy	3.8 arc sec	Clear Edge
	SC100-F3H Suprema Clear Edge Mirror Mount, 1.0 in., (3) 100-TPI Locking Hex		25.4 mm	Allen-Key, locking	z, θx, θy	3.8 arc sec	Clear Edge
	SC100-R2H-LH Suprema Clear Edge Rear Load Mount, 1.0 in., 2 100-TPI Locking Hex, LH		25.4 mm	Allen-Key, locking	θx, θy	3.8 arc sec	Rear Loading
	SC100-R3H-LH Suprema Clear Edge Rear Load Mount, 1.0 in., 3 100-TPI Locking Hex, LH		25.4 mm	Allen-Key, locking	z, θx, θy	3.8 arc sec	Rear Loading
	SN050-F3 Suprema Clear Edge Mirror Mount, 0.5 in., 3 Locking 100-TPI Allen-Keys		12.7 mm	Allen-Key, locking	z, θx, θy	8.5 arc sec	Clear Edge
	SN050-R3 Suprema Clear Edge Rear Load Mount, 0.5 in., (3) 100-TPI Locking Allen		12.7 mm	Allen-Key, locking	z, θx, θy	8.5 arc sec	Clear Edge
	S5050-F3 Suprema Mirror Mount, 0.5 in., (3) 100-TPI Locking Allen-Key Actuators		12.7 mm	Allen-Key, locking	z, θx, θy	8.5 arc sec	Center Mount
	S5050-R3 Suprema Rear Loading Mirror Mount, 0.5 in., (3) 100-TPI Locking Allen		12.7 mm	Allen-Key, locking	z, θx, θy	8.5 arc sec	Center Mount
	S5100-F2H Suprema Mirror Mount, 1.0 in, (2) 100-TPI Locking Hex-Broach Actuators		25.4 mm	Allen-Key, locking	θx, θy	3.8 arc sec	Center Mount
	S5100-F3H Suprema Mirror Mount, 1.0 in, (3) 100-TPI Locking Hex-Broach Actuators		25.4 mm	Allen-Key, locking	z, θx, θy	3.8 arc sec	Center Mount

Features

Superior Thermal Stability

Suprema industrial Mounts were tested against the best competitive mounts and demonstrated superior drift stability as shown in the graph.





In-Process Heat Treatment

Every Suprema mount is heat treated as part of the fabrication process. Heat treating relieves the build up of fabrication stresses which improves the overall stability of the mount.

Front- or Rear-Loading, Right- or Left-Handed

Suprema Industrial Mounts are available in several configurations to suite different beam routing configurations. Left-handed mounts are essentially mirror images of the standard right-handed versions. Note that left-handed versions are also rear loading.





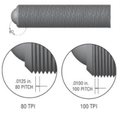
The Stainless Steel Advantage

All Suprema mirror mounts are made from stainless steel making them the most stable and easiest to align. Stainless steel is 3X stiffer than aluminum so it flexes significantly less allowing easier alignment. Stainless steel's coefficient of thermal expansion is lower than aluminum making it more stable during temperature fluctuations. Stainless steel makes Suprema the flag ship of Newport's mirror mount offering.

Locking Allen-Key Adjusters

All of Newport's Suprema industrial mounts have locking Allen-key adjustments to save space and prevent unintended adjustment. These capstan-style locks are used as jam nuts and, when tightened, impart an axial force on to the adjustment screw which locks the mirror mount's alignment in place.



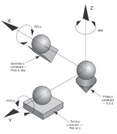


Superior Adjustability

All Suprema industrial mirror mounts are equipped with locking 100-TPI adjustment screws that provide a 25% improvement in adjustment sensitivity over competing mounts having 80-TPI adjusters. Better adjustability means faster, easier alignment.

Stability Ensured by Kinematic Design

The design of the these mounts follows kinematic principles to ensure the highest stability and precision. Each degree of freedom is constrained just once using the Cone, V, and Flat configuration.



Accessories

Precision Spacers

Compare	Description	Drawings, CAD & Specs
	SP-KT Precision Optical Post/Pedestal Spacer Kit	
	PS-0.125 Optical Pedestal Spacer, 0.125 in. Thick, 1 in. Dia., 8-32 (M4) CLR	
	PS-0.063 Optical Pedestal Spacer, 0.0625 in. Thick, 1 in. Dia., 8-32 (M4) CLR	
	PS-0.031 Optical Pedestal Spacer, 0.03125 in. Thick, 1 in. Dia., 8-32 (M4) CLR	
	PS-0.25 Optical Pedestal Spacer, 0.250 in. Thick, 1 in. Dia., 8-32 (M4) CLR	

Top-Adjust Industrial Mounts

Compare	Description	Drawings, CAD & Specs
	HVM-05 Vertical Drive Industrial Kinematic Mirror Mount, 0.5 in., 2 Locking Allen-Keys	
	HVM-1I Industrial Kinematic Mirror Mount, Vertical Drive, 1 in., 2 Allen-Keys	

Optic Adaptors

Compare	Description	Drawings, CAD & Specs
	UPA-SMA Fiber Adaptor, SMA, 25.4 mm Diameter, 5.1 mm Thick	
	UPA-CH1 Cube Beamsplitter Holder, 1 inch, For U100A Mount	
	UPA-FC 0.250 in. Fiber Chuck Adaptor for 1 in. Optic Mounts	
	UPA-CH.5 Cube Beamsplitter Holder, 0.5 inch, For U50-A Mount	
	UPA-45D1 1 in. (25.4 mm) 45° Mirror Holder	
	9920 45° Mirror Adapter, 1 in. (25.4 mm)	
	9922 Tiny 45° Adapter, 0.5 in. Mounts	

Additional Industrial Mounts

Compare	Description	Drawings, CAD & Specs
	MFM-100-LC Mirror Mount LaserClean, Ø1.0 in.	
	MFM-050-HR Flexure Industrial Optical Mount, 0.5 in., 100-TPI Hex Adjustment x 2	
	P100-AG1 PERFORMA+ Aperture Mount, 25.4 mm, 2 Allen-Key, 100 TPI	
	PX-FM1 Fixed Mirror Mount, 1 in., for PX Post, Stainless Steel	
	Q-S5100-R3HN Kinematic Optic Mount, 1.0 in., Stainless Steel, Aegis Qube System	
	SX100-F2H-127 Suprema XTE Low-Drift Mirror Mount, 1 in., 2 Locking 127-TPI Adjusters	
	9876-K Tiny Corner Mirror Mount, 0.5 in., 3 Allen-Key Adjustment	

Low Wavefront Distortion Suprema Mounts

Related Products



Mirror Mount Adapters



Ultrafast Mirrors



Industrial Mirror Mounts



Mirror Mount Mounting Adapters



1.0 in. PX Forkless Optical Pedestals and Posts



Top Adjust Industrial Mirror Mounts

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