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Find the *ThorLabs SM1* at our website: ***Click HERE***

SM-Threaded Kinematic Mirror Mounts with Two Adjusters

- SM-Threaded Kinematic Mounts for Thin Ø1/2", Ø1", and Ø2" Optics
- Phosphor Bronze Bushings and Stainless Steel Adjuster Screws



KM05T
For Ø1/2" Optics,
SM05 Threaded



KM100T
For Ø1" Optics,
SM1 Threaded



KM200T
For Ø2" Optics,
SM2 Threaded



Application Idea
KM100T SM1-Threaded Mount
Shown with the AD11F Adapter
and F280APC-B Fiber Collimator

Related Items









Overview

Features

- SM-Threaded Mounts for Thin Ø1/2", Ø1", or Ø2" Optics or Threaded Components
- Hardened Steel Inserts at Kinematic Contact Points to Reduce Wear
- Phosphor Bronze Bushings and Stainless Steel Lead Screws for Smooth Adjustment
- Fabricated from Black Anodized Aluminum
- Mounting Holes Enable Left-Handed or Right-Handed Operation
- Double-Bore Mirror Mounts Also Available



Click to Enlarge
Mirror Surface Aligned Over
the Post Axis Using Our
KMCP Centering Plate

Thorlabs' Standard SM-Threaded Kinematic Mounts are designed for stress-free mounting of thin optical components. These mounts have an internally threaded hole with a lip on the back side against which the optic can be secured using the included externally threaded retaining ring.

These mounts offer an angular adjustment range of ±4° (±3° for the KM200T) and are mountable in left- or right-handed orientations. With #8 (M4) counterbored through holes on the back plate, these mounts are compatible with both imperial and metric Ø1/2" posts. The knobs on the KM100T and KM200T are removable, thereby exposing the hex sockets at the end of the lead screws (see the video to the right).

Thorlabs offers a variety of other two and three adjuster mirror mounts including our high-stability Polaris™ Mirror Mounts.

Ø1/2" Kinematic Mount with SM05 Threads



Zoom

- SM05-Threaded Mount for Ø1/2" Optics up to 0.15" (4 mm) Thick
- Optic Held with Retaining Rings
- Angular Range: ±4°
- Resolution: 13 mrad (0.75°) per rev via Two 3/16"-100 TPI Precision Adjusters
- Two Tapped 8-32 (M4) Mounting Holes Allow for Left- or Right-Handed Orientation
- Ø1/2" Lens Tube Compatible via SM05 Threading

The KM05T(/M) Kinematic Mirror Mount is designed for use with thin Ø1/2" optics up to 0.15" (4 mm) thick. An optic is secured in the mounting hole with the two included SM05RR SM05 (0.535"-40) threaded retaining rings, which can be attached using the SPW603 spanner wrench. This mount is also compatible with SM05-threaded components, including our Ø1/2" Lens Tubes. The KM05T(/M) is post-mountable via two 8-32 (M4) threaded mounting holes to allow for left- or right-handed operation.



Click to Enlarge
Rear of KM05T Mount with
Dichroic Mirror on a Ø1/2"
Post

Based on your currency / country selection, your order will ship from Newton, New Jersey

Part Number - Imperial	
KM05T	SM05-Threaded Kinematic Mount for Thin Ø1/2" Optics, 8-32 Taps

Part Number - Metric	
KM05T/M	SM05-Threaded Kinematic Mount for Thin Ø12.7 mm Optics, M4 Taps

Ø1" Kinematic Mount with SM1 Threads



Zoom

- SM1-Threaded Mount for Ø1" Optics up to 0.14" (3.5 mm) Thick
- Optics Held with Retaining Rings
- Angular Range: ±4°
- Resolution: 8 mrad (0.5°) per Rev via Two 1/4"-80 Precision Adjusters
- Three Counterbored #8 (M4) Through Holes Allow for Left-Handed, Right-Handed, or Upward-Facing Orientation
- Removable Knobs Expose Hex Sockets in the Adjuster Screws
- Ø1" Lens Tube Compatible via SM1 Threading

The KM100T SM1-Threaded Kinematic Mirror Mount is designed for use with thin Ø1" optics up to 0.14" (3.5 mm) thick. An optic is secured in the mounting hole with the two included SM1RR SM1 (1.035"-40) threaded retaining rings, which can be attached using the SPW602 spanner wrench. This mount is also compatible with SM1-threaded components, including our Ø1" Lens Tubes.

The universal KM100T is compatible with both imperial and metric threaded Ø1/2" mounting posts via #8 (M4) counterbored through holes, and can be attached to the post in a right-handed, left-handed, or upward-facing orientation, as shown in the photos to the right. The mount has removable knobs that expose hex sockets in the lead adjuster screws. The KM100T features two 1/4"-80 adjusters for tip and tilt adjustments. An optional accessory, the LN2580 bronze locking nut, is available to lock the adjusters once the desired position is reached.



Click to Enlarge



Click to Enlarge

Both images above show the F280APC-B fiber collimator mounted in the KM100T kinematic mount using an AD11F adapter. On the left, the KM100T is mounted upwards using the #8 (M4) counterbore accessed by a through hole in the front plate. On the right, the KM100T is mounted with one of two back-located #8 (M4) counterbores, which are orthogonal to the optic mounting bore and to each other.

Thin Kinematic Mounts are also suitable for mounting fiber collimators utilizing adapters such as the AD11F, as shown above.

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Part Number - Universal	
KM100T	SM1-Threaded Kinematic Mount for Thin Ø1" Optics

Ø2" Kinematic Mount with SM2 Threads



Zoom

- SM2-Threaded Mount for Ø2" Optics up to 0.10" (2.5 mm) Thick
- Optics Held with Retaining Rings
- Angular Range: ±3°
- Resolution: 5 mrad (0.3°) per rev via Two 1/4"-80 TPI Precision Adjusters
- Six Counterbored #8 (M4) Through Holes Allow for Left- or Right-Handed Orientation
- Removable Knobs Expose Hex Sockets in Adjuster Screws
- Ø2" Lens Tube Compatible via SM2 Threading

The KM200T SM2-Threaded Kinematic Mirror Mount is designed for use with thin Ø2" optics up to 0.10" (2.5 mm) thick. An optic is secured in the mounting hole with the two included SM2RR SM2 (2.035"-40) threaded retaining rings, which can be attached with the SPW604 spanner wrench. This mount is also compatible with SM2-threaded components, including our Ø2" Lens Tubes.

The universal KM200T is compatible with both imperial and metric threaded Ø1/2" mounting posts via #8 (M4) counterbored through holes, and can be attached to the post in either a right- or left-handed orientation. The mount has removable knobs which expose hex sockets in the lead adjuster screws. An optional accessory, the LN2580 bronze locking nut, is available to lock the adjusters once the desired position is reached.



Click to Enlarge
KM200T with Dichroic Mirror
and Color-Coded Knobs
Mounted on a Ø1/2" Post



Click to Enlarge
KM200T Shown with a PIAK10
Piezoelectric Inertia Actuator

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Part Number - Universal	
KM200T	SM2-Threaded Kinematic Mount for Thin Ø2" Optics

5/64" Hex Key Adjusters



Zoom

- For Convenient Adjustment of 5/64" and 2 mm Hex-Driven Actuators
- Red Anodized Adjustment Knob with Engraved Hex Size
- Replaceable Hex Tip
- Sold in Packages of 4

These 5/64" Hex Key Adjuster Thumbscrews allow for quick adjustment of many 5/64" and 2 mm hex-driven actuators (or standard actuators with the knobs removed). These temporary knobs can be left in the screw's hex socket between adjustments for convenience (see photo to the right). An 8-32 setscrew (5/64" hex) secures the replaceable hex bit, which can be reversed if the tip is stripped. Contact Tech Support to order replacement hex key bits.

We offer hex key thumbscrews in sizes from 0.050" to 3/16" and 2 mm to 5 mm.



Click for Details
POLARIS-K1-2AM with HKTS-5/64
Adjuster

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Part Number - Universal	
HKTS-5/64	Customer Inspired! 5/64" (2 mm) Hex Key Thumbscrew, 4 Pack

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