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# Ø1/2" Post Holders

- **Extra Wide Relief Cut Provides a Highly Stable Two-Line Contact with the Mating Post**
- **Each Post Holder Includes One Spring-Loaded or Solid Hex-Locking Thumbscrew**
- **Vacuum-Compatible Versions Available**





Magnets in Pedestal Post Holders Provide Holding Force Before Lockdown



Post Holder Secured by Clamping Fork

## Related Items

Ø1/2" Universal Post Holders



Post Holder Bases



Ø1/2" Posts



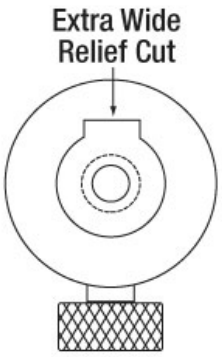
Imperial and Metric Part Differences



Overview | Insights | Feedback

## Features

- Precision-Machined Extra Wide Relief Cut Provides Stable Two-Line Contact with Ø1/2" Posts
- Variety of Mounting Mechanisms Include Bottom-Located 1/4"-20 (M6) Tapped Hole or Magnetic Base
- Extra Thumbscrews Also Available Below



Post Holders Have an Extra Wide Relief Cut for Two-Line Contact with Ø1/2" Posts

Thorlabs' Ø1/2" optical post holders are the ideal solution for mounting optical components when a specific height for a setup has not been determined. These post holders come in several styles: standard, vacuum compatible, and pedestal.

**Standard Post Holders**
Standard post holders can be mounted to any one of our Mounting Bases via a 1/4"-20 (M6) cap screw. Each includes a spring-loaded thumbscrew that holds the post in place before tightening.

**Vacuum-Compatible Post Holders**
Vacuum-compatible post holders are constructed from 6061-T6 and 2024-T3 aluminum and are compatible with our Vacuum-Compatible Mounting Bases. They are similar to our standard post holders but have a chemically cleaned finish instead of the standard black anodization. This allows them to be used directly out of the packaging at pressures as low as $10^{-6}$ Torr, or at even lower pressures with additional cleaning and processing. They also incorporate a one-piece thumbscrew instead of the standard spring-loaded design found on our other post holders.

**Pedestal Post Holders**
Pedestal post holders have a base that works in conjunction with the clamping forks featured below for flexible mounting options on an optical table. They incorporate high-strength magnets in the base to provide holding force while performing rough alignments. Standard post holders can also be converted to pedestal post holders using the BE1(/M) or BE1R(/M) base adapters, which are also available below.

In addition to the post holder options presented here, Thorlabs also offers swivel post holders, which have an attached swivel base, and other specialty post holders.

| Key Features | | | |
|---|---|---|---|
| **Type** | **Standard Post Holders** | **Vacuum-Compatible Post Holders** | **Pedestal Post Holders** |
| Post Contact | Precision-Machined Extra Wide Relief Cut for Stability | | |
| Optical Table Mounting | Bottom-Located 1/4"-20 (M6) Tapped Hole | | Compatible with CF038-P5, CF125, CF175, CF038C(/M)-P5, CF125C(/M), and CF175C(/M) Clamping Forks (Sold Below) |
| Thumbscrew | Spring Loaded with 3/16" (5 mm) Hex | One Piece with 3/16" (5 mm) Hex | Spring Loaded with 3/16" (5 mm) Hex |
| Vacuum Compatibility | N/A | >$10^{-6}$ Torr (Lower Pressures with Additional Cleaning) | N/A |
| Construction | Black Anodized Aluminum | 6061-T6 and 2024-T3 Aluminum | Black Anodized Aluminum |

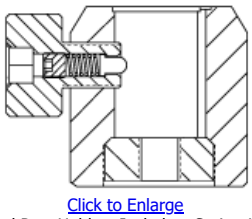
## Standard Ø1/2" Post Holders



Zoom

Aluminum, Spring-Loaded, Hex-Locking Thumbscrew (3/16" or 5 mm) for Positioning Ease
Extra Wide Relief Cut Provides a Two-Line Stable Contact for Post
1/4"-20 (M6) Tapped Hole on Bottom
Packs of 5 Also Available for 1" to 4" Lengths (20 mm to 100 mm)

These standard post holders are designed with a wide, square relief cut that provides two lines of contact for highly stable post mounting. A spring-loaded plunger within the aluminum thumbscrew holds a steel post firmly within the post holder prior to final tightening. This design allows one-handed positioning of post-mounted devices. Thorlabs' imperial and metric post holders are equipped with our 3/16" (TS25H) and 5 mm (TS6H/M) spring-loaded hex-locking thumbscrews, respectively (also available separately below). These thumbscrews should not be tightened beyond the maximum torque of 28 in·lbs (3.2 N·m). The post holders are compatible with our entire line of table bases and the BE1(/M) and BE1R(/M) base adapters (sold separately below).


Click to Enlarge
Standard Post Holders Include a Spring-Loaded

Popular post holders are also available in packages of five for ease of ordering.

Thumbscrew that Holds Posts in Place Before Tightening

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| | | | PH1 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1" | $7.24 | Today |
| | | | PH1-P5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1", 5 Pack | $36.20 | Today |
| | | | PH1.5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1.5" | $7.44 | Today |
| | | | PH1.5-P5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.5", 5 Pack | $37.18 | 5-8 Days |
| | | | PH2 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 2" | $7.93 | Today |
| | | | PH2-P5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 2", 5 Pack | $39.65 | Today |
| | | | PH3 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 3" | $8.52 | Today |
| | | | PH3-P5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 3", 5 Pack | $42.59 | Today |
| | | | PH4 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 4" | $9.45 | Today |
| | | | PH4-P5 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 4", 5 Pack | $47.23 | Today |
| | | | PH6 | Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 6" | $13.02 | 5-8 Days |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| | | | PH20/M | Customer Inspired! Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=20 mm | $7.24 | Today |
| | | | PH20/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=20 mm, 5 Pack | $36.20 | Today |
| | | | PH30/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=30 mm | $7.24 | Today |
| | | | PH30/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=30 mm, 5 Pack | $36.20 | Today |
| | | | PH40/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=40 mm | $7.44 | Today |
| | | | PH40/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=40 mm, 5 Pack | $37.18 | Today |
| | | | PH50/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=50 mm | $7.93 | Today |
| | | | PH50/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=50 mm, 5 Pack | $39.65 | Today |
| | | | PH75/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=75 mm | $8.52 | Today |
| | | | PH75/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=75 mm, 5 Pack | $42.59 | Today |
| | | | PH100/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=100 mm | $9.45 | Today |
| | | | PH100/M-P5 | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=100 mm, 5 Pack | $47.23 | Today |
| | | | PH150/M | Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=150 mm | $13.02 | Today |

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## Vacuum-Compatible Ø1/2" Post Holders




Zoom



Click to Enlarge

These post holders are packaged inside a double vacuum bag.

- Vacuum-Compatible, Unanodized Design (>$10^{-6}$ Torr)
- Double Vacuum Bagged for Cleanroom Environments
- One-Piece Thumbscrew for Reduced Outgassing
- Extra Wide Relief Cut Provides a Two-Line Stable Contact for Post
- 1/4"-20 (M6) Tapped Hole on Bottom

These vacuum-compatible post holders are constructed from 6061-T6 and 2024-T3 aluminum and are designed with a wide, square relief cut that provides two lines of contact for highly stable post mounting. They are compatible with our vacuum-compatible post holder bases.

Our vacuum-compatible post holders are chemically cleaned and prepared for vacuum applications before packaging. They are compatible directly out of the packaging with vacuum environments down to $10^{-6}$ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the aluminum, epoxy, and grease (see the table to the right). The material properties of the 6061-T6 and 2024-T3 aluminum and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under $10^{-6}$ Torr.

Our vacuum-compatible post holders are packaged in double airtight bags for cleanroom and vacuum chamber applications. The imperial and metric post holders are equipped with our 3/16" (TS25HV) and 5 mm (TS6HV/M) vacuum-compatible hex-locking thumbscrews, respectively (also available separately below).

| Vacuum Compatibility Specifications | |
|---|---|
| **Vacuum Compatibility as Packaged[a]** | >$10^{-6}$ Torr |
| **Materials** | 6061-T6 and 2024-T3 Aluminum<br>353NDPK Epoxy[b]<br>Low Vacuum Pressure Grease |
| **Preparation and Packaging** | Chemically Cleaned and Double Vacuum Bagged |
| **Stainless Steel Outgassing Rate at 20 °C** | 7.6 x $10^{-9}$ Torr-Liters/s/cm$^2$ |
| **Additional Vacuum Compatibility Information** | Grease Vapor Pressure: $10^{-13}$ Torr at 20 °C ,$10^{-5}$ Torr at 200 °C<br>Epoxy Meets Low Outgassing Standards NASA ASTM E595<br>and Telcordia GR-1221 |

a. This is the pressure at which these components can be used with no additional processing. They can be used at even lower pressures with additional cleaning and processing.
b. Click here to view the 353NDPK datasheet.

Please note that we do not recommend using an L wrench hex key to tighten the thumbscrews included with these post holders, as this may break off the screw head. The recommended maximum torque is 28 in·lbs (3.2 N·m).

We also offer additional vacuum-compatible Ø1/2" post system components.

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| | | | PH1V | Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 1", Vacuum Compatible | $32.78 | Lead Time |

| | | | | | | |
|---|---|---|---|---|---|---|
| +1 | | | PH1.5V | Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 1.5", Vacuum Compatible | $34.15 | Lead Time |
| +1 | | | PH2V | Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 2", Vacuum Compatible | $34.97 | Lead Time |
| +1 | | | PH3V | Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 3", Vacuum Compatible | $37.71 | Lead Time |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | PH20V/M | Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 20 mm, Vacuum Compatible | $32.78 | Lead Time |
| +1 | | | PH30V/M | Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 30 mm, Vacuum Compatible | $33.05 | Lead Time |
| +1 | | | PH40V/M | Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 40 mm, Vacuum Compatible | $34.15 | 5-8 Days |
| +1 | | | PH50V/M | Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 50 mm, Vacuum Compatible | $34.97 | Lead Time |
| +1 | | | PH75V/M | Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 75 mm, Vacuum Compatible | $37.71 | Today |

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## Ø1/2" Pedestal Post Holders




Zoom

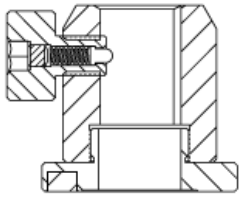
Aluminum, Spring-Loaded, Hex-Locking Thumbscrew (3/16" or 5 mm) for Positioning Ease

Three High Strength Magnets in Base Provide Holding Force Prior to Fastening

Extra Wide Relief Cut Provides a Two-Line Stable Contact for Post

Post can Pass Through Base Allowing Minimal Beam Height

Thorlabs' pedestal-style post holders combine the versatility of our standard post holders with the small footprint of the pedestal and fork design. The post holder can be locked down to an optical breadboard using a CF series clamping fork (see below). The fork can be swiveled 360° to pick the most convenient mounting hole. To further enhance this mounting system, magnets have been added to allow temporary positioning of the post holder prior to lockdown. The through hole design allows the maximum range of post height adjustment. Thorlabs' imperial and metric Pedestal-Style Post Holders are equipped with our 3/16" (TS25H) and 5 mm (TS6H/M) spring-loaded-hex locking thumbscrews, respectively (available below). These thumbscrews should not be tightened beyond the maximum torque of 28 in·lbs (3.2 N·m).



Click to Enlarge

Pedestal Post Holders Include a Spring-Loaded Thumbscrew that Holds Posts in Place Before Tightening

To order these pedestal post holders without magnets, please contact Tech Support.

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | PH082E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.00" | $24.88 | Today |
| +1 | | | PH1E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.19" | $24.88 | Today |
| +1 | | | PH1.5E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.69" | $25.43 | Today |
| +1 | | | PH2E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=2.19" | $25.97 | Today |
| +1 | | | PH3E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=3.19" | $26.51 | 5-8 Days |
| +1 | | | PH4E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=4.19" | $27.06 | Today |
| +1 | | | PH6E | Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=6.19" | $29.49 | Lead Time |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | PH20E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=25 mm | $24.88 | Today |
| +1 | | | PH30E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex Locking Thumbscrew, L=34.7 mm | $24.88 | Today |
| +1 | | | PH40E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=44.7 mm | $25.43 | Today |
| +1 | | | PH50E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=54.7 mm | $25.97 | Today |
| +1 | | | PH75E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=79.7 mm | $26.51 | Today |
| +1 | | | PH100E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=104.7 mm | $27.06 | Today |
| +1 | | | PH150E/M | Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=154.7 mm | $29.49 | Today |

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## Clamping Forks and Base Adapters

BE1(/M) and BE1R(/M) Adapters Convert Standard Ø1/2" Post Holders and Ø1" Post Extensions into Pedestal-Style Mounts

Clamping Fork or CL8 Table Clamp Secures Pedestal-Style Mount to a Breadboard or Optical Table

Three Sizes Provide Clamping with 1/4"-20 (M6) Cap Screws

- 0.38" (9.5 mm) Long Counterbored Slot [CF038-P5 and CF038C(/M)-P5]
- 1.24" (31.5 mm) Long Counterbored Slot [CF125 and CF125C(/M)]
- 1.75" (44.4 mm) Long Counterbored Slot [CF175 and CF175C]
- 1.76" (44.8 mm) Long Counterbored Slot [CF175C/M]

Swivel Fork 360° to Select Most Convenient Mounting Hole




Zoom

CF038C(/M)-P5, CF125C(/M), and CF175C(/M) Each Include a 1/4"-20 (M6)-Threaded Captive Screw

BE1(/M) and All Clamping Forks Available in Packs of Five [CF038-P5 and CF038C(/M)-P5 Not Sold Individually]

**Pedestal Base Adapters**

The BE1(/M) pedestal base adapter features a 1/4"-20 (M6)-threaded stud, that fits into the bottom of our standard Ø1/2" post holders or Ø1" post extensions to convert them into pedestal-style mounts for added stability. The BE1R(/M) adapter has a magnet in the base that is sufficiently strong to securely hold the base in place without clamping to an optical table (see photo at the top right). Made from solid 303 stainless steel with a 1.25" (31.8 mm) outer diameter, these adapters allow our standard Ø1/2" post holders to be used with the clamping forks sold below.

The BE1(/M) base adapter is available in a pack of five for ease of ordering.



Click to Enlarge
These base adapters feature a 1/8" (3 mm) hex socket on the bottom for tightening.



Click to Enlarge
The BE1R has a magnet in the base for stability in temporary setups.

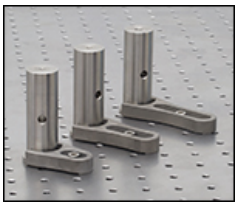


Click to Enlarge
The CF038C(/M)-P5, CF125C(/M), and CF175C(/M) each offer a captive screw.

**Clamping Forks**

These clamping forks are designed to provide exceptional clamping force when used with our Ø1/2" post holders and Ø1" post extensions that have been adapted using the BE1(/M) to pedestal-style mounts. They can also be used with our pedestal-style Ø1/2" post holders or Ø1" pedestal posts without any need for the BE1(/M).

Fabricated from solid 303 stainless steel, all of these clamping forks create three points of contact with the table for high stability. For flexibility in the positioning of post assemblies, the CF038-P5 and CF038C(/M)-P5 forks have 0.38" (9.5 mm) long counterbored slots, the CF125 and CF125C(/M) forks have 1.24" (31.5 mm) long counterbored slots, the CF175 and CF175C forks have 1.75" (44.4 mm) long counterbored slots, and the CF175C/M fork has a 1.76" (44.8 mm) long counterbored slot. The counterbored slots on the CF038-P5, CF125, and CF175 forks are designed for user-supplied 1/4"-20 (M6)-threaded cap screws. For further convenience, the CF038C(/M)-P5, CF125C(/M), and CF175C(/M) forks each include a 1/4"-20 (M6)-threaded captive screw. Please note that significant over tightening of clamping forks can deform the surface of an optical table, which can cause misalignment of components and decrease stability.



Click to Enlarge
Several Slot Lengths Available



Click to Enlarge
View Imperial Product List
View Metric Product List
Ø1/2" Post Holder Mounted to an Optical Table Using a CF125 Clamping Fork and BE1 Base Adapter

Our clamping forks are also available in packages of five for ease of ordering (note: the CF038-P5 and CF038C(/M)-P5 clamping forks are only available in packs of five).

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| | | | BE1 | Ø1.25" Studded Pedestal Base Adapter, 1/4"-20 Thread | $10.06 | Today |
| | | | BE1-P5 | Customer Inspired! Ø1.25" Studded Pedestal Base Adapter, 1/4"-20 Thread, 5 Pack | $50.30 | Today |
| | | | BE1R | Customer Inspired! Ø1.25" Magnetic Studded Pedestal Base Adapter, 1/4"-20 Thread | $17.75 | Today |
| | | | CF038C-P5 | Clamping Fork, 0.38" Counterbored Slot, 1/4"-20 Captive Screw, 5 Pack | $51.14 | Today |
| | | | CF125C | Customer Inspired! Clamping Fork, 1.24" Counterbored Slot, 1/4"-20 Captive Screw | $11.69 | Today |
| | | | CF125C-P5 | Clamping Fork, 1.24" Counterbored Slot, 1/4"-20 Captive Screw, 5 Pack | $55.65 | Today |
| | | | CF175C | Customer Inspired! Clamping Fork, 1.75" Counterbored Slot, 1/4"-20 Captive Screw | $12.77 | Today |
| | | | CF175C-P5 | Clamping Fork, 1.75" Counterbored Slot, 1/4"-20 Captive Screw, 5 Pack | $61.08 | Today |

| +1 | Qty | Docs | Part Number - Universal | | Price | Available |
|---|---|---|---|---|---|---|
| | | | CF125 | Clamping Fork, 1.24" Counterbored Slot, Universal | $9.22 | Today |
| | | | CF125-P5 | Clamping Fork, 1.24" Counterbored Slot, Universal, 5 Pack | $43.72 | Today |
| | | | CF175 | Clamping Fork, 1.75" Counterbored Slot, Universal | $10.93 | Today |
| | | | CF175-P5 | Clamping Fork, 1.75" Counterbored Slot, Universal, 5 Pack | $51.89 | Today |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| | | | BE1/M | Ø31.8 mm Studded Pedestal Base Adapter, M6 Thread | $10.06 | Today |
| | | | BE1/M-P5 | Customer Inspired! Ø31.8 mm Studded Pedestal Base Adapter, M6 Thread, 5 Pack | $50.30 | Today |
| | | | BE1R/M | Customer Inspired! Ø31.8 mm Magnetic Studded Pedestal Base Adapter, M6 Thread | $17.75 | Today |
| | | | CF038C/M-P5 | Clamping Fork, 9.5 mm Counterbored Slot, M6 x 1.0 Captive Screw, 5 Pack | $51.14 | Today |
| | | | CF125C/M | Customer Inspired! Clamping Fork, 31.5 mm Counterbored Slot, M6 x 1.0 Captive Screw | $11.69 | Today |
| | | | CF125C/M-P5 | Clamping Fork, 31.5 mm Counterbored Slot, M6 x 1.0 Captive Screw, 5 Pack | $55.65 | Today |
| | | | CF175C/M | Customer Inspired! Clamping Fork, 44.8 mm Counterbored Slot, M6 x 1.0 Captive Screw | $12.77 | Today |
| | | | CF175C/M-P5 | Clamping Fork, 44.8 mm Counterbored Slot, M6 x 1.0 Captive Screw, 5 Pack | $61.08 | 5-8 Days |

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## Swivel Base Adapter

Convert Your Existing Post Holders into Universal Post Holder Style Mounts
360° Swiveling Base Fastens to Existing Ø1/2" Post Holders via a 1/4"-20 (M6) Cap Screw
Magnets in Base Hold Position of Components on Breadboard During Initial Setup
Also Available in Packs of Five




Zoom

Our 360° swivel base adapter fits standard Ø1/2" post holders with 1/4"-20 (M6) mounting holes and minimizes the amount of time it takes to assemble an optical system. In addition, the swivel design is ideal for applications that require a large number of components to be packed into a small area. When our Ø1/2" post holders are used with this adapter, the combination is nearly that of our very popular Universal Post Holders. This anodized aluminum adapter has the benefit of compatibility with any of our existing Ø1/2" post holders but does not offer the same height flexibility of the swiveling post holders, which allow the post to be lowered all the way to the table. For ease of ordering, these base adapters are also available in packs of five.

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

| +1 | Qty | Docs | Part Number - Universal | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | **UPHA** | Swivel Base Adapter | $21.97 | Today |
| +1 | | | **UPHA-P5** | Swivel Base Adapter, 5 Pack | $107.67 | Today |

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## Spring-Loaded 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders




Zoom

These hex-locking, anodized aluminum thumbscrews have spring-loaded, completely retractable Delrin®* tips that provide sufficient force on a post to hold it in place as final positional adjustments are being made. They can then be locked into place using a 3/16" (for the TS25H) or 5 mm (for the TS6H/M) balldriver to prevent any further movement of the post. The hex size is also engraved on the face of the thumbscrew, thereby enabling easy identification in the lab.

The TS25H has 1/4"-20 threads while the TS6H/M has M6 x 1.0 threads for compatibility with our imperial and metric Ø1/2" post holders, respectively. The recommended maximum torque is 28 in·lbs (3.2 N·m). Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.

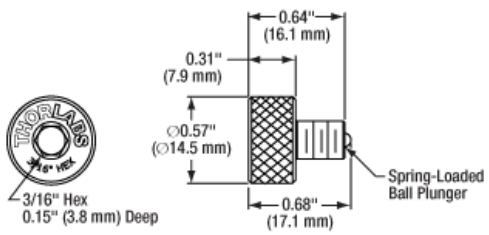
If a thumbscrew without a spring-loaded tip is preferred, we recommend our vacuum-compatible thumbscrews, sold below. Alternatively, the tips can be removed from these thumbscrews by unthreading the setscrew in the front of the thumbscrew with a 1/16" (1.5 mm) balldriver. The spring and tip can then be removed from the thumbscrew, in the order shown in the image to the right. However, the resulting contact face of the thumbscrew will have a center hole, unlike the contact face of our vacuum-compatible thumbscrews.

For ease of ordering, these thumbscrews are available individually or in packages of five.

*Delrin® is a registered trademark of DuPont Polymers, Inc.

| Specification | |
|---|---|
| **Maximum Torque**[a] | 28 in·lbs (3.2 N·m) |

a. Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.




TS25H Drawing



Click to Enlarge
Exploded View of the TS25H Thumbscrew

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | **TS25H** | Spring-Loaded 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread | $2.66 | Today |
| +1 | | | **TS25H-P5** | Spring-Loaded 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread, 5 Pack | $13.27 | Today |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| +1 | | | **TS6H/M** | Spring-Loaded 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread | $2.66 | Today |
| +1 | | | **TS6H/M-P5** | Spring-Loaded 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread, 5 Pack | $13.27 | Today |

Add To Cart

## Vacuum-Compatible 1/4"-20 and M6 x 1.0 Thumbscrews for Post Holders




Zoom

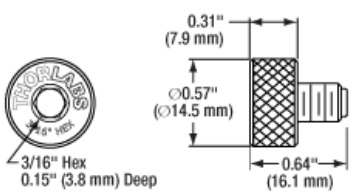
These hex-locking thumbscrews are constructed from 2024-T3 aluminum and chemically cleaned and prepared for vacuum applications before packaging. They are compatible directly out of the packaging with vacuum environments down to $10^{-6}$ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the aluminum, which is 7.6 x $10^{-9}$ Torr-Liters/s/cm$^2$. The material properties of the 2024-T3 aluminum and the cleaning methods that are completed by the end user should be used to determine the appropriateness of these products and materials in a specific vacuum system operating at pressures under $10^{-6}$ Torr.

These unanodized thumbscrews are packaged in double airtight bags for cleanroom and vacuum chamber applications.

The thumbscrews may be adjusted using our selection of balldrivers. The TS25HV has 1/4"-20 threads while the TS6HV/M has M6 x 1.0 threads for compatibility with our imperial or metric Vacuum-Compatible Ø1/2" Post Holders, respectively. We also offer additional vacuum-compatible Ø1/2" post system components.

| Specifications | |
|---|---|
| **Vacuum Compatibility as Packaged**[a] | >$10^{-6}$ Torr |
| **Materials** | 2024-T3 Aluminum |
| **Preparation and Packaging** | Chemically Cleaned and Double Vacuum Bagged |
| **Aluminum Outgassing Rate** | 7.6 x $10^{-9}$ Torr-Liters/s/cm$^2$ |
| **Maximum Torque**[b] | 28 in·lbs (3.2 N·m) |

a. This is the pressure at which these components can be used with no additional processing. They can be used at even lower pressures with additional cleaning and processing.
b. Please note that we do not recommend using an L wrench to tighten the thumbscrew, as this may break off the screw head.




TS25HV Drawing

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

| +1 | Qty | Docs | Part Number - Imperial | | Price | Available |
|---|---|---|---|---|---|---|
| | | | | | $11.28 | Today |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | **TS25HV** | 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread, Vacuum Compatible | | |

| +1 | Qty | Docs | Part Number - Metric | | Price | Available |
|---|---|---|---|---|---|---|
| | | | **TS6HV/M** | 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread, Vacuum Compatible | $10.93 | Today |

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