

ThorLabs PH2

Ø1/2 Inch Post Holder with Mounting Clamp



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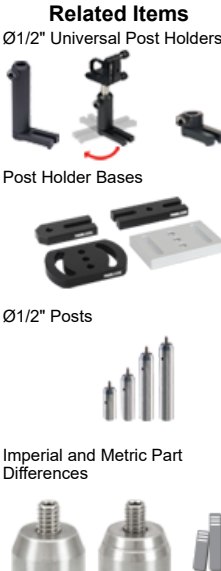
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Ø1/2" Post Holders

- ▶ 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



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

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.

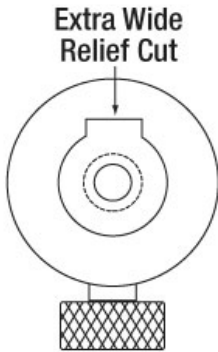
Vacuum-Compatible Post Holders

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](#).



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

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

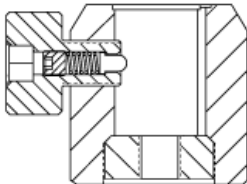
Standard Ø1/2" Post Holders



[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).



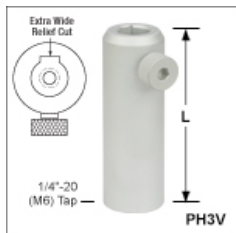
[Click to Enlarge](#)
Standard Post Holders Include a Spring-Loaded

+1	Qty	Docs	Part Number - Imperial	Price	Available
	<input type="text"/>		PH1 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1"	\$7.24	Today
	<input type="text"/>		PH1-P5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1", 5 Pack	\$36.20	Today
	<input type="text"/>		PH1.5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 1.5"	\$7.44	Today
	<input type="text"/>		PH1.5-P5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.5", 5 Pack	\$37.18	5-8 Days
	<input type="text"/>		PH2 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 2"	\$7.93	Today
	<input type="text"/>		PH2-P5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 2", 5 Pack	\$39.65	Today
	<input type="text"/>		PH3 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 3"	\$8.52	Today
	<input type="text"/>		PH3-P5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 3", 5 Pack	\$42.59	Today
	<input type="text"/>		PH4 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 4"	\$9.45	Today
	<input type="text"/>		PH4-P5 Ø1/2" Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L = 4", 5 Pack	\$47.23	Today
	<input type="text"/>		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
	<input type="text"/>		PH20/M Customer Inspired! Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=20 mm	\$7.24	Today
	<input type="text"/>		PH20/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=20 mm, 5 Pack	\$36.20	Today
	<input type="text"/>		PH30/M Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=30 mm	\$7.24	Today
	<input type="text"/>		PH30/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=30 mm, 5 Pack	\$36.20	Today
	<input type="text"/>		PH40/M Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=40 mm	\$7.44	Today
	<input type="text"/>		PH40/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=40 mm, 5 Pack	\$37.18	Today
	<input type="text"/>		PH50/M Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=50 mm	\$7.93	Today
	<input type="text"/>		PH50/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=50 mm, 5 Pack	\$39.65	Today
	<input type="text"/>		PH75/M Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=75 mm	\$8.52	Today
	<input type="text"/>		PH75/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=75 mm, 5 Pack	\$42.59	Today
	<input type="text"/>		PH100/M Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=100 mm	\$9.45	Today
	<input type="text"/>		PH100/M-P5 Ø12.7 mm Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=100 mm, 5 Pack	\$47.23	Today
	<input type="text"/>		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](#)

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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).

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](#).

Vacuum Compatibility Specifications

Vacuum Compatibility as Packaged^a	$>10^{-6}$ Torr
Materials	6061-T6 and 2024-T3 Aluminum 353NDPK Epoxy ^b Low Vacuum Pressure Grease
Preparation and Packaging	Chemically Cleaned and Double Vacuum Bagged
Stainless Steel Outgassing Rate at 20 °C	7.6×10^{-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 Epoxy Meets Low Outgassing Standards NASA ASTM E595 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.

(also available separately below)

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

		PH1.5V	Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 1.5", Vacuum Compatible	\$34.15	Lead Time
		PH2V	Ø1/2" Post Holder with Hex-Locking Thumbscrew, L = 2", Vacuum Compatible	\$34.97	Lead Time
		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
	<input type="text"/>		PH20V/M Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 20 mm, Vacuum Compatible	\$32.78	Lead Time
	<input type="text"/>		PH30V/M Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 30 mm, Vacuum Compatible	\$33.05	Lead Time
	<input type="text"/>		PH40V/M Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 40 mm, Vacuum Compatible	\$34.15	5-8 Days
	<input type="text"/>		PH50V/M Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 50 mm, Vacuum Compatible	\$34.97	Lead Time
	<input type="text"/>		PH75V/M Ø12.7 mm Post Holder with Hex-Locking Thumbscrew, L = 75 mm, Vacuum Compatible	\$37.71	Today

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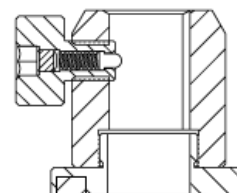
Ø1/2" Pedestal Post Holders



[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



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

maximum torque of 28 in·lbs (3.2 N·m).

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
	<input type="text"/>		PH082E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.00"	\$24.88	Today
	<input type="text"/>		PH1E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.19"	\$24.88	Today
	<input type="text"/>		PH1.5E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=1.69"	\$25.43	Today
	<input type="text"/>		PH2E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=2.19"	\$25.97	Today
	<input type="text"/>		PH3E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=3.19"	\$26.51	5-8 Days
	<input type="text"/>		PH4E Ø1/2" Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=4.19"	\$27.06	Today
	<input type="text"/>		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
	<input type="text"/>		PH20E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=25 mm	\$24.88	Today
	<input type="text"/>		PH30E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex Locking Thumbscrew, L=34.7 mm	\$24.88	Today
	<input type="text"/>		PH40E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=44.7 mm	\$25.43	Today
	<input type="text"/>		PH50E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=54.7 mm	\$25.97	Today
	<input type="text"/>		PH75E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=79.7 mm	\$26.51	Today
	<input type="text"/>		PH100E/M Ø12.7 mm Pedestal Post Holder, Spring-Loaded Hex-Locking Thumbscrew, L=104.7 mm	\$27.06	Today
	<input type="text"/>		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](#)



[Click to Enlarge](#)

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

over tightening of clamping forks can deform the surface of an optical table, which can cause misalignment of components and decrease stability.

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).

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

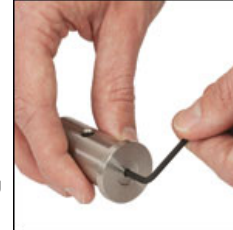
The BE1(/M) pedestal base adapter features a 1/4"-20 (M6)-threaded stud, that fits into the bottom of our standard Ø1/2" post holders or [Ø1" post extensions](#) to convert them into pedestal-style mounts for added stability. The BE1R(/M) adapter has a magnet in the base that is sufficiently strong to 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.

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.



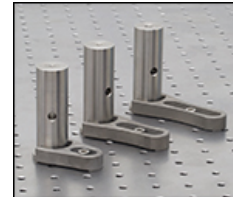
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These base adapters feature a 1/8" (3 mm) hex socket on the bottom for tightening.



[Click to Enlarge](#)

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



[Click to Enlarge](#)

Several Slot Lengths Available



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[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

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

+1	Qty	Docs	Part Number - Imperial	Price	Available
	<input type="text"/>		BE1 Ø1.25" Studded Pedestal Base Adapter, 1/4"-20 Thread	\$10.06	Today
	<input type="text"/>		BE1-P5 Customer Inspired! Ø1.25" Studded Pedestal Base Adapter, 1/4"-20 Thread, 5 Pack	\$50.30	Today
	<input type="text"/>		BE1R Customer Inspired! Ø1.25" Magnetic Studded Pedestal Base Adapter, 1/4"-20 Thread	\$17.75	Today
	<input type="text"/>		CF038C-P5 Clamping Fork, 0.38" Counterbored Slot, 1/4"-20 Captive Screw, 5 Pack	\$51.14	Today
	<input type="text"/>		CF125C Customer Inspired! Clamping Fork, 1.24" Counterbored Slot, 1/4"-20 Captive Screw	\$11.69	Today
	<input type="text"/>		CF125C-P5 Clamping Fork, 1.24" Counterbored Slot, 1/4"-20 Captive Screw, 5 Pack	\$55.65	Today
	<input type="text"/>		CF175C Customer Inspired! Clamping Fork, 1.75" Counterbored Slot, 1/4"-20 Captive Screw	\$12.77	Today
	<input type="text"/>		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
	<input type="text"/>		CF125 Clamping Fork, 1.24" Counterbored Slot, Universal	\$9.22	Today
	<input type="text"/>		CF125-P5 Clamping Fork, 1.24" Counterbored Slot, Universal, 5 Pack	\$43.72	Today
	<input type="text"/>		CF175 Clamping Fork, 1.75" Counterbored Slot, Universal	\$10.93	Today
	<input type="text"/>		CF175-P5 Clamping Fork, 1.75" Counterbored Slot, Universal, 5 Pack	\$51.89	Today
+1	Qty	Docs	Part Number - Metric	Price	Available
	<input type="text"/>		BE1/M Ø31.8 mm Studded Pedestal Base Adapter, M6 Thread	\$10.06	Today
	<input type="text"/>		BE1/M-P5 Customer Inspired! Ø31.8 mm Studded Pedestal Base Adapter, M6 Thread, 5 Pack	\$50.30	Today
	<input type="text"/>		BE1R/M Customer Inspired! Ø31.8 mm Magnetic Studded Pedestal Base Adapter, M6 Thread	\$17.75	Today
	<input type="text"/>		CF038C/M-P5 Clamping Fork, 9.5 mm Counterbored Slot, M6 x 1.0 Captive Screw, 5 Pack	\$51.14	Today
	<input type="text"/>		CF125C/M Customer Inspired! Clamping Fork, 31.5 mm Counterbored Slot, M6 x 1.0 Captive Screw	\$11.69	Today
	<input type="text"/>		CF125C/M-P5 Clamping Fork, 31.5 mm Counterbored Slot, M6 x 1.0 Captive Screw, 5 Pack	\$55.65	Today
	<input type="text"/>		CF175C/M Customer Inspired! Clamping Fork, 44.8 mm Counterbored Slot, M6 x 1.0 Captive Screw	\$12.77	Today
	<input type="text"/>		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	<input type="text"/>	UPHA	Swivel Base Adapter	\$21.97	Today
+1	<input type="text"/>	UPHA-P5	Swivel Base Adapter, 5 Pack	\$107.67	Today
Add To Cart					

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.

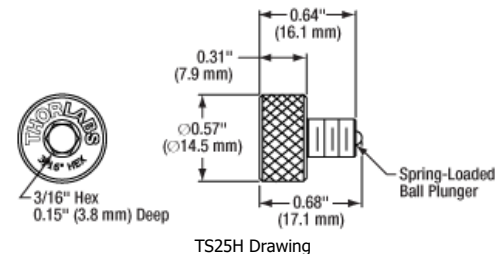
If a thumbscrew without a spring-loaded tip is preferred, we recommend our vacuum-compatible thumbscrews, sold below. Alternatively, the tips can be removed from these thumbscrews by unthreading the setscrew in the front of the thumbscrew with a 1/16" (1.5 mm) balldriver. The spring and tip can then 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.



[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	<input type="text"/>	TS25H	Spring-Loaded 3/16" Hex-Locking Thumbscrew, 1/4"-20 Thread	\$2.66	Today
+1	<input type="text"/>	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	<input type="text"/>	TS6H/M	Spring-Loaded 5 mm Hex-Locking Thumbscrew, M6 x 1.0 Thread	\$2.66	Today
+1	<input type="text"/>	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](#)

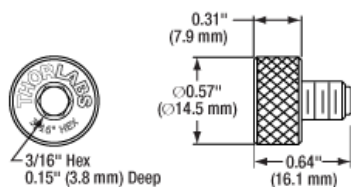
These hex-locking thumbscrews are constructed from 2024-T3 aluminum and chemically cleaned and prepared for vacuum applications before packaging. They are compatible directly out of the packaging with vacuum environments down to 10⁻⁶ Torr. With additional cleaning and processing, they can be used at even lower pressures, only limited by the outgassing rate of the aluminum, which is 7.6 x 10⁻⁹ Torr-Liters/s/cm². 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

+1

[TS25HV](#)

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

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

Add To Cart

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