C1560/M - Aug. 11, 2015

Item # C1560/M was discontinued on Aug. 11, 2015. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

Ø1.5" POST CONSTRUCTION ACCESSORIES

► **Ideal for Securing Our Wide Range of Optic Mounts to Our Ø1.5" Stainless Steel Posts**

► **Rigid Construction Provides the Stability Required for Highly Sensitive Alignment Assemblies**

#8 (M4) CBore

1/4"-20 (M6) Tap

MA1

C1500

Rotating 8-32 (M4) Mounting

SD1
Adapter Ring

C1526
Cage System Adapter

C15QR
Quick-Release Handle

Application Idea

Hide Overview

O V E R V I E W

These Ø1.5" post mounting adapters provide direct compatibility with virtually all of our Optomechanics, allowing a wide range of parts to be directly mounted to our rigid P-Series Posts.

Compact Post Clamp
The C1500(/M) Compact Post Clamp allows optic mounts with 8-32 (M4) tapped mounting holes to be attached to a Ø1.5" post. The angle of the optic mount can be adjusted easily using the knurled knob.

Slip-On Post Clamps
Our slip-on post clamps can be used for mounting either 1/4"-20 (M6) or 8-32 (M4) components (when using the SD1 counterbore adapter ring) onto our Ø1.5" posts.

Cage Clamp Mounts
Our C1526 and C1560 Cage Mounts allow cage assemblies to be securely attached in a horizontal or vertical direction to our Ø1.5" posts using a quick-connect mechanism.

Post Mounting Adapters
Our post mounting adapters function as mounting platforms for Ø1.5" posts. They offer an array of 1/4"-20 (M6) and 8-32 (M4) tapped hole and counterbore combinations.

Quick-Release Handle
A quick-release handle is also available that allows for a simple and reliable way of securing these clamps to a post. It is easily installed by replacing the 1/4"-20 (M6) locking screw in the post clamp. The 2.03" (51.4 mm) long handle contains a 1/4"-20 (M6) threaded stud that engages the part by simply rotating the handle. It is compatible with all of the items below except for the C1498(/M) Slip-on Clamp and the post mounting adapters.

Ø1.5" Post Accessories
Construction Accessories
V-Mounts
Mounting Plates
Brackets / Platforms
Mirror Mounts

Click to Enlarge
C15QR Quick-Release Handle Being Used in Place of the 1/4"-20 (M6) Clamping Screw

Compact Post Clamp

- Attach Optics Mounts with 8-32 (M4) Taps to Ø1.5" P-Series Posts
- Knurled Knob for Quick Angle Adjustment
- Four Holes on the Knob for Extra Tightening

Click for Details

The C1500 Post Clamp allows optic mounts with 8-32 (M4) tapped mounting holes, such as the LMR1 shown in the application to the right, to be attached to a Ø1.5" post. Cicking on the image to the right displays 3 images detailing this application. The angle of the optic mount can be set (see image 1) while the knurled knob is used to thread the device onto the C1500 (see image 2). For final tightening, four holes are provided on the knob allowing a 5/64 (2 mm) hex wrench to be inserted and used to obtain sufficient torque to securely lock the mount in place (see image 3).

Part Number	Description	Price	Availability
C1500/M	Compact Ø1.5" Post Mounting Clamp, Metric	$68.30	3-5 Days
C1500	Compact Ø1.5" Post Mounting Clamp	$66.30	3-5 Days

Ø1.5" Slip-On Post Clamps

- Mount 1/4"-20 (M6) or 8-32 (M4) Components Onto our Ø1.5" P-Series Posts
- Lock to Post with Non-Marring Brass Locking Screw
- Two 8-32 (M4) Tapped Holes are Provided for Optic Mounts with #8 (M4) Counterbored Holes
- SD1 Adapter used with 1/4" (M6) Counterbored Hole for Optic Mounts with 8-32 (M4) Threading

Click to Enlarge

The image to the right shows a Ø2" PF20-03-P01 silver mirror mounted in a Ø2" KS2 mirror mount, which is connected to the C1498 post clamp using the 8-32 (M4) threading.

Part Number	Description	Price	Availability
C1498/M	Ø1.5" Slip-On Post Clamps, Metric	$30.50	Today
SD1	1/4" (M6) Counterbore Adapter Ring for 8-32 (M4) Screws, 10 per Pack	$7.56	Today
C1498	Ø1.5" Slip-On Post Clamps	$30.50	Today

Ø1.5" Post-Mounting Clamps

- Securely Attach 30 mm or 60 mm Cage Assemblies to our Ø1.5" Posts
- Quick-Connect Mechanism for Fast Drop-In/Drop-Out of Cage Assemblies
- Cage Clamping Mechanism Activated by 3/16" (5 mm) Hex Cap Screw

Click to Enlarge
30 mm Cage System
Mounted on a Ø1.5" Post
Using a C1526 Clamp

The application to the right shows the C1526 supporting a cage system composed of 4 ER6 cage rods, an SM1Z Z-Axis Translation Mount, and a CP02T cage plate. This system can be used as a telescope to expand or contract the beam diameter using lenses of appropriate focal length placed in the Z-axis mount and cage plate.

Part Number	Description	Price	Availability
C1526/M	30 mm Cage Clamp for Ø1.5" Posts, Metric	$74.60	3-5 Days
C1560/M	60 mm Cage Clamp for Ø1.5" Posts, Metric	$83.00	3-5 Days
C1526	30 mm Cage Clamp for Ø1.5" Posts	$74.60	3-5 Days
C1560	60 mm Cage Clamp for Ø1.5" Posts	$83.00	3-5 Days

Ø1.5" Vertical Post-Mounting Clamps

- Mount 30 mm Cage Systems Vertically to Our Ø1.5" Posts
- Quick-Connect Mechanism for Fast Drop-In/Drop-Out of Cage Assemblies
- 15 lb (6.8 kg) Load Capacity

The application to the right shows the CV1526 mount supporting a 30 mm cage system in a vertical orientation. The assembly is composed of four ER4 cage rods, an SM1Z Z-Axis Translation Mount, and a CP02T cage plate. This configuration can be used in a variety of applications including the inspection station shown to the right, which consists of a CMOS Camera, a Camera Lens, and a Microscope Objective.
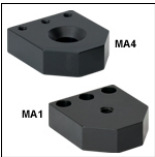
Custom CV1526(/M) Clamp Mounts can be ordered for 16 and 60 mm-cage system compatibility. Please contact Tech Support for more information.

Click to Enlarge
30 mm Cage System Vertically Mounted
on a Ø1.5" Post Using a
CV1526 Clamp

Part Number	Description	Price	Availability
CV1526/M	Customer Inspired!30 mm Vertical Cage Clamp for Ø1.5" Posts, Metric	$179.00	Today
CV1526	Customer Inspired!30 mm Vertical Cage Clamp for Ø1.5" Posts	$179.00	Today

Hide Ø1.5" Post Mounting Adapters

Ø1.5" Post Mounting Adapters

- Can be used as a Mounting Platform to Connect a Wide Range of our Optic Mounts and Translation Stages to our Ø1.5" P-Series Posts
- Offers an Array of 1/4"-20 (M6) and 8-32 (M4) Tapped Hole and Counterbore Combinations

The application to the right shows a Ø1" POLARIS-K1 ultra-stable mirror mount attached to an MA4 Post Mounting Adapter using 8-32 (M4) threading. The 1/4" clearance on the MA4 adapter is used to connect to the 1/4"-20 threading of the Ø1.5" post P-Series Post.

Click to Enlarge

Part Number	Description	Price	Availability
MA1/M	Ø1.5" Post Mounting Adapter, M6 Tapped / M4 Clearance	$16.80	Today
MA2/M	Ø1.5" Post Mounting Adapter, M6 Clearance / M4 Clearance	$16.80	Today
MA3/M	Ø1.5" Post Mounting Adapter, M6 Tapped / M4 Tapped	$16.80	Today
MA4/M	Ø1.5" Post Mounting Adapter, M6 Clearence / M4 Tapped	$16.80	Today
MA1	Ø1.5" Post Mounting Adapter, 1/4"-20 Tapped / #8 Clearance	$16.80	Today
MA2	Ø1.5" Post Mounting Adapter, 1/4" Clearance / #8 Clearance	$16.80	Today
MA3	Ø1.5" Post Mounting Adapter, 1/4"-20 Tapped / 8-32 Tapped	$16.80	Today
MA4	Ø1.5" Post Mounting Adapter, 1/4" Clearance / 8-32 Tapped	$16.80	Today

Hide Quick-Release Handle

Quick-Release Handle

- Quick-Release Handle for Fast and Repeated Positioning of Post Clamps
- Compatible with Ø1" (Ø25.0 mm) or Ø1.5" Post Clamps that Incorporate a 1/4"-20 (M6) Clamping Screw
- Provides More Control and Feel when Locking and Unlocking a Clamp
- Handle can be Rotated Without Actuating the Locking Screw
- 1/4"-20 (M6) Threads

The C15QR(/M) Quick-Release Handle provides a simple and reliable way of securing a flexure-based Ø1" (Ø25.0 mm) or Ø1.5" post clamp. In many cases a cap screw is used to lock a flexure-based clamp in place on a post, which requires a balldriver for adjustments. Depending on the mounted load, using a balldriver can be difficult, or even unsafe. This quick-release handle mitigates this problem by allowing the clamp to be hand-tightened, ensuring better control over the amount of torque applied to tighten or loosen the clamp. This also decreases the amount of time needed for basic setup and alignment by eliminating the need for additional balldrivers and allowing for a quick way to secure a clamp.

Click for Details
Left: Handle Being Attached to the C1501 Post Mounting Clamp
Right: Pull Back to Rotate the Position of the Handle

Easily installed by replacing the 1/4"-20 (M6) locking screw in a post clamp, the 2.03" (51.4 mm) long handle contains a 1/4"-20 (M6) threaded stud that engages a part by rotating the handle. Once the handle is tightened to secure a clamp to a post, the internal ratchet-type mechanism allows for the handle's rotational position to be adjusted without actuating the mounting stud. Simply pull the handle outwards to disengage it from the mounting stud, as shown in the image to the right, then rotate it to a more convenient position. This feature ensures that the handle will always be accessible to the user.

Part Number	Description	Price	Availability
C15QR/M	NEW! Quick Release Handle for Ø25.0 mm or Ø1.5" Post Clamps, M6 Threads	$9.50	Today
C15QR	NEW! Quick-Release Handle for Ø1" or Ø1.5" Post Clamps, 1/4"-20 Threads	$9.50	Today

Part Number	Description	Price	Availability
C15QR/M	NEW! Quick Release Handle for Ø25.0 mm or Ø1.5" Post Clamps, M6 Threads	$9.50	Today
C15QR	NEW! Quick-Release Handle for Ø1" or Ø1.5" Post Clamps, 1/4"-20 Threads	$9.50	Today