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Ø1/2" Post Construction Accessories

- Compatible with Our Ø1/2" Posts
- Essential Building Blocks for Complex, Rigid Structures
- Double-Bored Through Holes for Stable Mounting



RA90RS
Mounts Ø1" to Ø1/2" Posts (Posts Sold Separately)



RA180
Right-Angle End Clamp



RA90
Mounts Two Ø1/2" Posts at a Fixed 90° Angle (Posts Sold Separately)



Application Idea
Use the PJ301 Mounting Joist to mount two mirrors in KM100 Mirror Mounts on a Ø1" post.

Related Items

Ø1/2" Posts



Post Construction Cubes



Ø1/2" Articulated Mounts



Compact Ø1/2" Post Mount



Overview | Feedback

Features

- Rigid Construction Accessories Required for Many Complex 3D Assemblies
- Angle Clamp Options
  - Fixed 45° (Left- or Right-Handed)
  - Fixed 90° Ø6 mm, Ø1/2", or Ø1" Mounting Options
  - Fixed 0°, 90°, or 360° for Two Ø1/2" Posts
  - Continuous 360° for Ø6 mm or Ø1/2" Posts
- Mounting Joists Provide Space-Saving Platform for Multiple Optical Mounts
- PMTR(/M) Clamps Large Components or Serves as an Adjustable-Height Mounting Joist

Quick Links
Angle Clamps for Ø1/2" Posts
Ø1/2" to Ø6 mm Angle Post Clamp
Ø1" to Ø1/2" Right-Angle Post Clamp
Mounting Joists
Component Clamp

Thorlabs' Angle Clamps and Mounting Joists are construction accessories that offer space-saving mounting solutions. Our angle clamps give the user the ability to orient our Ø1/2" posts in multiple directions and provide rigid, stable, and compact structures that can meet many laboratory needs. The double-bored mounting holes ensure two lines of stable contact, while the aluminum thumbscrews securely fasten the posts in place. For added convenience, many of the angle clamps are also sold in packs of 5.

For compatibility with mini-series constructions and cage systems, Thorlabs' offers angle clamps that allow a Ø6 mm post to be mounted to a Ø1/2" post. These angle clamps are available with a fixed right-angle or continuous 360° rotation. Additionally, a fixed right-angle post clamp is also available for mounting a Ø1/2" post to a Ø1" post.

Thorlabs' Mounting Joists can be used to mount multiple optical elements close together, which alleviates the need for multiple posts and post holders. These versatile joists, compatible with Ø1/2" and Ø1" posts, can also offset a post from the mounted optic in order to squeeze the optic into tight areas. The two joist designs provide adaptable laboratory solutions to crowded table problems.

Our PMTR(/M) Component Clamp can be used to secure prisms, cylindrical components, and other devices. The clamp mounts to our Ø1/2" posts using a stable double bore and offers five 1/4"-20 (M6) tapped holes. It can also be used as a mounting joist for optical mounts. For mounting prisms and cylindrical objects with a small footprint, Thorlabs also offers Ø1/2" post-compatible fixed compact mounts.

Ø1/2" to Ø1/2" Angle Post Clamps

Rigid Construction Accessories Required for Many Complex 3D Assemblies

Double-Bored Through Holes for Stable Two-Line Contact

Aluminum Thumbscrew Provides Secure Holding Force for Locking

Thorlabs' Angle Clamps securely fasten our Ø1/2" posts at a variety of angles to one another. In addition to the fixed angle options, we also offer a variant for 360° continuous adjustment (Item # SWC). The holes of these clamps are double bored to provide two lines of stable contact. The RA180(/M) has one double-bored hole and a 1/4"-20 (M6) threaded stud on the bottom, which allows this clamp to be directly threaded onto a post. The RA360(/M) has two double-bored holes allowing two posts to be mounted parallel to each other. The RA360(/M) also features a #8 (M4) counterbore allowing the parallel posts to be mounted horizontally to the top of another post. The 3/16" (5 mm) hex thumbscrews located at either side of each clamp secure the Ø1/2" posts in place once the desired position is achieved.

For added convenience, many of these clamps are also sold in packs of 5.

Product Image (Click for Details)[a]						
Item #	RA45(/M)	RA135(/M)	RA90(/M)	RA180(/M)	RA360(/M)	SWC(/M)
Clamp Angle	45°, Right Handed	45°, Left Handed	90°	90°	0°, 90°, or 360°	Continuous 360°

a. Posts Sold Separately

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

+1 Qty	Docs	Part Number - Imperial		Price	Available
		RA45	Customer Inspired! Right-Handed 45° Angle Clamp for Ø1/2" Posts, 3/16" Hex	$12.88	Today

RA45-P5	Right-Handed 45° Angle Clamp for Ø1/2" Posts, 3/16" Hex, 5 Pack	$64.38	Lead Time
RA135	Customer Inspired! Left-Handed 45° Angle Clamp for Ø1/2" Posts, 3/16" Hex	$13.01	Today
RA90	Right-Angle Clamp for Ø1/2" Posts, 3/16" Hex	$10.05	Today
RA90-P5	Right-Angle Clamp for Ø1/2" Posts, 3/16" Hex, 5 Pack	$50.25	Today
RA180	Right-Angle End Clamp for Ø1/2" Posts, 1/4"-20 Stud and 3/16" Hex	$11.46	Today
RA180-P5	Right-Angle Post Clamp for Ø1/2" Posts, 1/4"-20 Stud and 3/16" Hex, 5 Pack	$57.30	Today
RA360	Customer Inspired! Parallel Clamp for Ø1/2" Posts, #8 Counterbore and 3/16" Hex	$14.85	5-8 Days
SWC	Rotating Clamp for Ø1/2" Posts, 360° Continuously Adjustable, 3/16" Hex	$25.00	Today
SWC-P5	Rotating Clamp for Ø1/2" Posts, 360° Continuously Adjustable, 3/16" Hex, 5 Pack	$124.98	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
RA45/M	Customer Inspired! Right-Handed 45° Angle Clamp for Ø1/2" Posts, 5 mm Hex	$12.88	Lead Time
RA45/M-P5	Right-Handed 45° Angle Clamp for Ø1/2" Posts, 5 mm Hex, 5 Pack	$64.38	5-8 Days
RA135/M	Customer Inspired! Left-Handed 45° Angle Clamp for Ø1/2" Posts, 5 mm Hex	$13.01	Today
RA90/M	Right-Angle Clamp for Ø1/2" Posts, 5 mm Hex	$10.05	Today
RA90/M-P5	Right-Angle Clamp for Ø1/2" Posts, 5 mm Hex, 5 Pack	$50.25	Today
RA180/M	Right-Angle End Clamp for Ø1/2" Posts, M6 Stud and 5 mm Hex	$11.46	Lead Time
RA180/M-P5	Right-Angle End Clamp for Ø1/2" Posts, M6 Stud and 5 mm Hex, 5 Pack	$57.30	Lead Time
RA360/M	Customer Inspired! Parallel Clamp for Ø1/2" Posts, M4 Counterbore and 5 mm Hex	$14.85	5-8 Days
SWC/M	Rotating Clamp for Ø1/2" Posts, 360° Continuously Adjustable, 5 mm Hex	$25.00	Today
SWC/M-P5	Rotating Clamp for Ø1/2" Posts, 360° Continuously Adjustable, 5 mm Hex, 5 Pack	$124.98	Today

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Ø1/2" to Ø6 mm Angle Post Clamp



Zoom

Mounts a Ø6 mm Mini-Series Post or Cage Rod to a Ø1/2" Post
Right-Angle and 360° Continuous Adjustment Available
Imperial and Metric Versions Available

Thorlabs' Ø1/2" to Ø6 mm angle post clamps are used to integrate Ø1/2" posts into mini-series constructions or cage system assemblies. These clamps are available as a fixed right-angle, for perpendicular mounting, or with continuous 360° angle adjustment. Individual locking mechanisms for each post, as well as the rotation angle, allow for independent adjustment of each component.

The MSWCA(/M) clamp allows a Ø6 mm cage rod or mini-series post to be mounted to a Ø1/2" post with 360° continuous adjustment. The clamp features witness lines marked every 45°, as well as a 3/16" (5 mm) hex thumbscrew to secure the swivel angle. Two additional 3/16" (5 mm) hex thumbscrews are used to secure the posts into place. The center-to-center distance between the two posts is 0.62" (15.7 mm).

The RA90TR(/M) clamp allows a Ø6 mm cage rod or mini-series post to be mounted perpendicularly to a Ø1/2" post. The design combines a highly stable clamp flexure lock for holding the Ø6 mm post that is secured using a 5/64" (2 mm) balldriver. A 3/16" (5mm) thumbscrew locking mechanism is used for attaching the clamp to the Ø1/2" post. The center-to-center distance between the two posts is 1/2" (12.7 mm).


Click to Enlarge
A Ø6 mm Post Mounted to a Ø1/2" Post With Continuous 360° Rotation Using the MSWCA Clamp


Click to Enlarge
A Ø6 mm Post Mounted Perpendicularly to a Ø1/2" Post Using the RA90TR Clamp

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

+1	Qty	Docs	Part Number - Imperial		Price	Available
MSWCA	Rotating Clamp for Ø1/2" to Ø6 mm Posts, 360° Continuously Adjustable, 3/16" Hex	$35.02	Today
RA90TR	Customer Inspired! Right-Angle Ø1/2" to Ø6 mm Post Clamp, 3/16" Hex Thumbscrew	$16.56	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
MSWCA/M	Rotating Clamp for Ø1/2" to Ø6 mm Posts, 360° Continuously Adjustable, 5 mm Hex	$35.02	Today
RA90TR/M	Customer Inspired! Right-Angle Ø1/2" to Ø6 mm Post Clamp, 5 mm Hex Thumbscrew	$16.56	5-8 Days

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Ø1" to Ø1/2" Right-Angle Post Clamp



Zoom

Mounts a Ø1/2" Post Perpendicular to a Ø1" (Ø25.0 mm) Post
Flexure Mechanism Secures Right-Angle Clamp to Ø1" (Ø25.0 mm) Post
Thumbscrew Secures Ø1/2" Post
Imperial and Metric Versions Available

The RA90RS(/M) clamp allows a Ø1/2" post to be mounted perpendicularly to a Ø1" (25.0 mm) post. The design combines a highly stable clamp flexure lock that is secured using a 3/16" or 5 mm balldriver with a thumbscrew locking mechanism to provide a solution that enables a Ø1/2" post to be mounted perpendicular to a Ø1" (Ø25.0 mm) post. The thumbscrew can be tightened with a torque of up to 50 in-lbs (5.65 N·m). The center-to-center distance between the two posts is 1" for the imperial version and 25.0 mm for the metric version.


Click to Enlarge
A Ø1/2" Post Mounted

Perpendicularly to a Ø1" Post
Using the RA90RS Clamp

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

+1	Qty	Docs	Part Number - Imperial		Price	Available
+1			**RA90RS**	Right-Angle Ø1" to Ø1/2" Post Clamp	$28.41	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
+1			**RA90RS/M**	Right-Angle Ø25.0 mm to Ø1/2" Post Clamp	$28.41	Today

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Mounting Joists



Zoom

Compatible with Thorlabs' Ø1/2" and Ø1" Posts

Space-Saving Design Allows for Multiple Optical Elements to be Mounted on One Post

Options for Center Mounting or Offset Mounting

Thorlabs' Mounting Joists provide valuable space-saving mounting options that are ideal for crowded optical tables or breadboards. These mounts are compatible with our Ø1/2" and Ø1" posts and allow multiple optics to be mounted close together on a single joist, eliminating the need for multiple posts and post holders.

The PJ301(/M) enables centered mounting in which optics can be placed on both sides of the post center. It features a centered #8 (M4) counterbore for post mounting and two #8 (M4) counterbored slots for mounting optomechanical components. This joist allows an optic to be offset by 0.40" - 1.40" (10.16 mm - 35.56 mm) from the post center.

The PJ302(/M) enables offset mounting in which optics can be mounted to one side of the post center. It features two #8 (M4) counterbored slots with opposite orientations, one for post mounting and one for mounting optomechanical components. This joist allows an optic to be offset by 0.40" - 2.70" (10.16 mm - 68.58 mm) from the post center.

Please note that imperial nuts only fit the imperial joists and metric nuts only fit the metric joists. Nuts are included with the these joists.



Click to Enlarge
View Imperial Product List
View Metric Product List
PJ301 Post Joist Mounting Two Lenses About the Center of a Ø1/2" Post



Click to Enlarge
View Imperial Product List
View Metric Product List
PJ302 Post Joint Mounting a Mirror in a Position Offset from the Center of a Ø1" Post

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

+1	Qty	Docs	Part Number - Imperial		Price	Available
+1			**PJ301**	Centered Mounting Post Joist, 8-32 Mounting Hardware	$18.29	Today
+1			**PJ302**	Offset Mounting Post Joist, 8-32 Mounting Hardware	$17.21	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
+1			**PJ301/M**	Centered Mounting Post Joist, M4 Mounting Hardware	$18.29	Today
+1			**PJ302/M**	Offset Mounting Post Joist, M4 Mounting Hardware	$17.21	Today

Add To Cart

Component Clamp



Zoom

Five 1/4"-20 (M6 x 1.0) Tapped Thru Holes

Secure a Prism or Other Component Using a Nylon-Tipped Setscrew

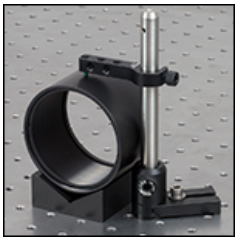
Slip-On Collar Design Attaches to Ø1/2" Posts Using Thumbscrew

Use as Mounting Joist to Offset Optical Mounts

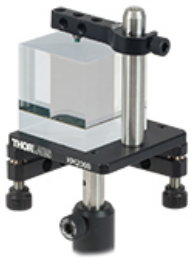
The PMTR(/M) Component Clamp can be used to secure prisms, cylindrical components, and other devices. The clamp mounts to our Ø1/2" Posts using a stable double bore and offers five 1/4"-20 (M6) tapped holes. Components are secured using the included 1/4"-20 (M6) nylon-tipped setscrew with 1/8" (3.0 mm) hex. The closest tap is 1" (25.0 mm) from the center of the Ø1/2" post and the farthest tap is 2" (50.0 mm) away. Two of the the taps are orthogonal to the post for side-mounting components. Cylindrical components up to 3" (76.2 mm) in diameter may be held in place in a V-mount using the PMTR(/M) Clamp, as shown in the second photo to the right.



Click to Enlarge
View Imperial Product List
View Metric Product List
KM100 Mounted Upside Down



Click to Enlarge
View Imperial Product List
View Metric Product List
Ø3" Lens Tube Clamped in V-Mount



Click to Enlarge
View Imperial Product List
View Metric Product List
2" Beamsplitter Cube Held Using PMTR Clamp

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+1	Qty	Docs	Part Number - Imperial		Price	Available
+1			**PMTR**	Component Clamp for Ø1/2" Posts, 1/4"-20 Taps	$26.51	Today

+1	Qty	Docs	Part Number - Metric		Price	Available
+1			**PMTR/M**	Component Clamp for Ø1/2" Posts, M6 Taps	$26.51	Today

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