

CYLCP - July 11, 2025

Item # CYLCP was discontinued on July 11, 2025. For informational purposes, this is a copy of the website content at that time and is valid only for the stated product.

CYLINDRICAL LENS MOUNTS

- ▶ Mount Cylindrical Lenses or Other Rectangular Optics
- ▶ Variable-Height Clamps with Rubber Pads
- ▶ Fixed, Kinematic, and Cage-Compatible Designs Offered



KM100C
Kinematic Mount
Max Optic Height: 1.30" (33.0 mm)



CH2B
Fixed Mount
Max Optic Height:
2.60" (66.0 mm)

(Post Not Included)



CYCPA
30 mm Cage Compatible
Max Optic Height:
0.66" (16.8 mm)



CYLCP
60 mm Cage Compatible
Max Optic Height:
1.84" (46.8 mm)

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OVERVIEW

Thorlabs' Cylindrical Lens Mounts are offered in three varieties: fixed, kinematic, and cage compatible (both 30 mm cage systems and 60 mm cage systems are supported). These mounts secure cylindrical lenses or other rectangular optics using sliding, lockable arms; each arm is lined with a rubber pad and has a lip for resting the plano side of the lens against. This design leaves the optical axis clear.

All mounts on this page are post mountable. The fixed and kinematic versions contain a #8 (M4) counterbore that provides both imperial and metric compatibility, while the cage-compatible versions offer an 8-32 or an M4 tapped hole.

[Hide Fixed Cylindrical Lens Mounts](#)

Fixed Cylindrical Lens Mounts



(Posts Not Included)

- ▶ Two Rubber-Lined Arms Mount a Cylindrical Lens or Another Rectangular Optic
- ▶ Two Versions
 - CH1A: Optic Height Range of 0" to 1.60" (0 mm to 40.6 mm)
 - CH2B: Optic Height Range of 0" to 2.60" (0 mm to 66.0 mm)
- ▶ #8 (M4) Counterbore for Post Mounting

Our CH1A and CH2B Fixed Cylindrical Lens Mounts are used to hold cylindrical lenses and other rectangular optics horizontally or vertically. Each mount consists of two arms that are connected by two ER cage rods. The top arm slides along the cage rods and is locked by tightening two 4-40 setscrews compatible with a 0.05" (1.3 mm) hex key, while the bottom arm is stationary and contains a #8 (M4) counterbore for compatibility with Ø1/2" posts. Each arm is lined with a 0.79" (20.0 mm) long rubber pad to protect the clamped optic.



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Cylindrical Lens Held
with a CH1A Mount

The cage rods included with the CH1A and CH2B cylindrical lens mounts allow them to support optics as tall as 1.60" (40.6 mm) or 2.60" (66.0 mm), respectively. If support for taller optics is needed, the user may replace the included cage rods with longer ones or attach additional cage rods to the existing ones.

Part Number	Description	Price	Availability
CH1A	Fixed Cylindrical Lens Mount, Max Optic Height: 1.60" (40.6 mm)	\$71.88	Today
CH2B	Fixed Cylindrical Lens Mount, Max Optic Height: 2.60" (66.0 mm)	\$77.53	Today

[Hide Kinematic Cylindrical Lens Mount](#)

Kinematic Cylindrical Lens Mount



- ▶ Two Rubber-Lined Arms Mount a Cylindrical Lens or Another Rectangular Optic
- ▶ $\pm 4^\circ$ of Tip and Tilt Control is Provided by 1/4"-80 Kinematic Adjusters
- ▶ Optic Height Range of 0" to 1.30" (0 mm to 33.0 mm)
- ▶ #8 (M4) Counterbore for Post Mounting
- ▶ Right- and Left-Handed Versions Available

The KM100C(L) Kinematic Cylindrical Lens Mount contains two 1/4"-80 adjusters that provide a $\pm 4^\circ$ range for tip and tilt adjustments. A cylindrical lens or another rectangular optic is clamped between two arms that are connected by two cage rods (Item # ER1.5). The top arm slides along the cage rods and is locked by tightening two 4-40 setscrews compatible with a 0.05" (1.3 mm) hex key, while the bottom arm is stationary. Each arm is lined with a 0.79" (20.0 mm) long rubber pad to protect the clamped optic.

This mount is offered in right- and left-handed versions; a #8 (M4) counterbore in the back plate provides compatibility with $\varnothing 1/2$ " posts. The cage rods included with the kinematic cylindrical lens mounts support optics as tall as 1.30" (33.0 mm). If support for taller optics is needed, the user may attach additional cage rods to the existing ones, as shown in the photo to the right.



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To accommodate a 50.8 mm tall cylindrical lens, ER1.5 Cage Rods have been threaded onto those provided with the KM100C.

Part Number	Description	Price	Availability
KM100C	Kinematic Mount for up to 1.3" (33 mm) Tall Rectangular Optics, Right Handed	\$112.57	Today
KM100CL	Kinematic Mount for up to 1.3" (33 mm) Tall Rectangular Optics, Left Handed	\$112.57	Today

[Hide Cylindrical Lens Mounts for 30 mm and 60 mm Cage Systems](#)

Cylindrical Lens Mounts for 30 mm and 60 mm Cage Systems



- ▶ Two Rubber-Lined Arms Mount a Cylindrical Lens or Another Rectangular Optic
- ▶ Compatible with 30 mm or 60 mm Cage Systems
 - 30 mm Version: Optic Height Range of 0.16" to 0.66" (4.0 mm to 16.8 mm)
 - 60 mm Version: Optic Height Range of 0.16" to 1.84" (4.0 mm to 46.8 mm)
- ▶ Graduations at 1 mm Intervals Help with Centration and Repeatability
- ▶ Internal SM Threads for $\varnothing 1$ " or $\varnothing 2$ " Lens Tubes
- ▶ 8-32 (M4 x 0.7) Tapped Hole for Post Mounting

Our CYCPA(/M) and CYLCP(/M) Cylindrical Lens Mounts for Cage Systems are designed to hold a cylindrical lens or another rectangular optic horizontally or vertically within a 30 mm (Item # prefix CYC) or a 60 mm (Item # prefix CYL) cage system. The lens is clamped between two arms that are connected by two cage rods (Item # ER2 for the 30 mm cage version or Item # ER3 for the 60 mm cage version).

The arms slide along the cage rods and are locked by tightening two M4 (Item #s CYCPA and CYCPA/M) or two 4-40 (Item #s CYLCP and CYLCP/M) setscrews, which are compatible with 5/64" (2.0 mm) or 0.05" (1.3 mm) hex keys, respectively. Each arm is lined with a rubber pad to protect the clamped optic. On the CYCPA(/M), these pads are 1.51" (38.3 mm) long, while on the CYLCP(/M), these pads are 2.70" (68.6 mm) long. The cage plate is tightened to the cage rods by two additional M4 (Item #s CYCPA and CYCPA/M) or 4-40 (Item #s CYLCP and CYLCP/M) setscrews, and the cage plate and arms can be moved and locked independently.

Key Specifications		
Item #	CYCPA(/M)	CYLCP(/M)
Optic Height Range	0.16" to 0.66" (4.0 mm to 16.8 mm)	0.16" to 1.84" (4.0 mm to 46.8 mm)
Cage System Compatibility	30 mm	60 mm
Length Spanned by Engraved Tick Marks ^a	20 mm	50 mm
Threading	Internal SM1 (1.035"-40)	Internal SM2 (2.035"-40)
Post Mounting	One 8-32 (M4) Tapped Hole	

a. Major Ticks Occur Every 5 mm; Minor Ticks Occur Every 1 mm



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Engraved Tick Marks
Help Center the Mounted
Lens

The mounts contain an 8-32 (M4 x 0.7) tapped hole for compatibility with $\text{Ø}1/2$ " posts. The cage rods included with the CYCPA(/M) and CYLCP(/M) cylindrical lens mounts allow them to support optics as tall as 0.66" (16.8 mm) or 1.84" (46.8 mm), respectively. If support for taller optics is needed, the user may replace the included cage rods with longer ones or attach additional cage rods to the existing ones, but an attached post can mechanically clash with the bottom arm if the arm has been moved down too far, and the mount cannot be used within a cage system if the arms or the optic overlap with the through holes.

Both sides of the cage plates are engraved with tick marks. Major ticks occur every 5 mm and minor ticks occur every 1 mm. On the CYCPA(/M), the tick marks span a total length of 20 mm, while on the CYLCP(/M), the tick marks span a total length of 50 mm. A major tick is placed at the center line of the plate to help center the mounted optic. It is easiest to center the cylindrical lens when the cylindrical axis is parallel to the arms, as shown in the photo to the right.

The CYCPA(/M) cage plate has a central bore that is SM1 (1.035"-40) threaded and compatible with our $\text{Ø}1$ " lens tubes, while the CYLCP(/M) has a central bore with SM2 (2.035"-40) threading and is compatible with our $\text{Ø}2$ " lens tubes. For more information on these mounts' cage compatibility, including an application idea for mounting a cylindrical lens with the ability to rotate within a cage system, please see our full web presentations for the CYCPA and CYLCP mounts.

Part Number	Description	Price	Availability
CYCPA/M	30 mm Cage Mount for Cylindrical Lenses, M4 Tap	\$101.75	Today
CYLCP/M	60 mm Cage Mount for Cylindrical Lenses, M4 Tap	\$118.20	Today
CYCPA	30 mm Cage Mount for Cylindrical Lenses, 8-32 Tap	\$101.75	Today
CYLCP	60 mm Cage Mount for Cylindrical Lenses, 8-32 Tap	\$118.20	Today

Visit the [Cylindrical Lens Mounts](#) page for pricing and availability information: