

## 16 mm Cage Plates



SP01



SB1C



SP02



SP03

- Primary Mounting Components for use with Ø4 mm SR Cage Rods
- Side-Located #4-40 Nylon-Tipped Setscrew Included (SP03 Only)
- #4-40 and M3 x 0.5 Tapped Holes Allow Mounting to Mini-Series Posts

- Use SM05 (Ø0.535"-40) Threading Accepts SM05 Lens Tubes (SP02 Only)
- 16 mm Clear Aperture (SP03 Only)
- Connects to SC6W Cubes Using #3-48 Cap Screws (Included)

The 16 mm Cage Plates are a family of construction blocks ideally suited for assembling optical systems based on Ø1/2" optical components. Each cage plate contains four corner-located, Ø4 mm through holes with a center-to-center spacing of 16 mm. These holes are machined for a precision slip fit with mating Ø4 mm SR Cage Rods and provide side-accessible locking screws that fasten the plate to its mating assembly rods once positioned.

Additionally, Thorlabs offers cage plates compatible with our 30 mm and 60 mm cage systems designed for Ø1.00" and Ø2.00" optical components, respectively. (See pages 147-184 for our complete cage systems offering).

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SP01*	SP01*	\$ 13.00	£ 9.00	€ 11,60	¥ 109.80	16 mm Blank Cage Plate
SP02*	SP02*	\$ 13.00	£ 9.00	€ 11,60	¥ 109.80	16 mm Cage Plate with SM05 Thread
SP03*	SP03*	\$ 13.00	£ 9.00	€ 11,60	¥ 109.80	16 mm Cage Plate with 16 mm Clear Aperture
SB1C	SB1C/M	\$ 13.30	£ 9.20	€ 11,90	¥ 112.40	16 mm Cage Mounting Plate, #8-32 (M4 x 0.7)

\*Imperial and Metric Compatible

## 16 mm Slip Plate Positioner

- Holds Ø1/2" Optics or SM05 Series Lens Tubes
- SM05 (Ø0.535"-40) Internal Thread on Movable Plate
- Ø0.64" (Ø16.3 mm) Clearance Hole on Stationary Plate
- ±1 mm of Manual Adjustment
- Lockable Design

The Slip Plate Positioner is designed to provide coarse XY positioning of optical components within our cage assembly system. This design provides manual adjustment and is best utilized in conjunction with an alignment laser to monitor centricity. The movable carriage is threaded with Thorlabs' SM05 (Ø0.535"-40) series threads and directly accepts Ø1/2" (Ø12.7 mm) optics up to 0.15" (3.8 mm) thick.



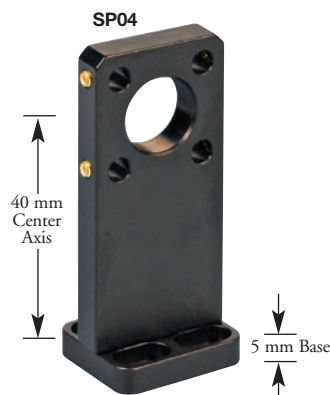
SSP05

Locking  
Screws

**Mechanical**  
Drawings Available on the  
**WEB**

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SSP05	SSP05/M	\$ 57.50	£ 39.90	€ 51,10	¥ 485.60	16 mm Slip Plate Positioner

## 16 mm Cage Plate, 45 mm Axis Height



SP04

40 mm  
Center  
Axis

5 mm Base

- SM05 (Ø0.535"-40) Internal Thread for use with SM05 Series Lens Tubes
- Four Through Holes for Ø4 mm SR Series Cage Rods
- 45 mm Total Optical Axis Beam Height
- Removable Base

The SP04 Cage Plate, which places the center of the mounted optic at a 45 mm beam height (40 mm if the base is removed) is part of our 16 mm Compact Cage System products. The top plate has two bottom-located #4-40 (M3 x 0.5) tapped holes on 1/2" (12.5 mm) centers for mounting to the base. One additional #8-32 (M4 x 0.7) tapped hole on the bottom of the top plate allows mounting to a TR Post. The included base provides a convenient interface between the SP04 Cage Plate and our Mini Series of Breadboards.

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SP04	SP04/M	\$ 26.75	£ 18.60	€ 23,80	¥ 225.90	16 mm Cage Plate, 45 mm Axis Height