

16mm Cage Plates



SP01



SB1C



SP02



SP03

- Primary Mounting Components for Use With SR Cage Rods
- Side Located #4-40 Nylon-Tipped Setscrew Included
- #4-40 or M3 Tapped Holes Allow Mounting to Our Mini Series Posts
- SM05 (0.535"-40) Threaded Retaining Ring for Securing Optic or SM05 Lens Tubes (SP02)
- 16mm Clear Aperture (SP03 Only)
- Connects to SC6W Cubes Using #3-48 Cap screws (Included)

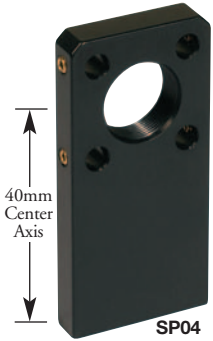
The 16mm Cage Plates are a family of construction blocks ideally suited for assembling optical systems based upon Ø1/2" optical components. Each cage plate contains four corner-located, Ø4mm through-holes with a center-to-center spacing of 16mm. These holes are machined for a precision slip fit with mating SR Cage Rods and provide side-accessible locking screws that fasten the plate to their mating assembly rods for positioning.

Compatibility: Thorlabs offers 16mm, 30mm, and 60mm cage systems designed for Ø1/2", Ø1", and Ø2" optical components, respectively. The parts on this page are compatible with our 16mm cage system and utilize 4mm SR cage rods.

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SP01*	SP01*	\$ 13.00	£ 8.20	€ 12,10	¥ 124.20	16mm Blank Cage Plate
SP02*	SP02*	\$ 13.00	£ 8.20	€ 12,10	¥ 124.20	16mm Cage Plate with SM05 Thread
SP03*	SP03*	\$ 13.00	£ 8.20	€ 12,10	¥ 124.20	16mm Cage Plate with 16mm Clear Aperture
SB1C	SB1C/M	\$ 13.00	£ 8.20	€ 12,10	¥ 124.20	16mm Cage Mounting Cage Plate

*Universal Design, Imperial and Metric Compatible.

16mm Cage Plate, 40mm Axis Height



SP04



SP04B

- 0.535"-40 Internal Thread for Use with SM05 Lens Tubes
- Four Through-Holes for SR Series Rods
- 40mm Beam Height From Base
- Two #4-40 (M3) Tapped Holes on 1/2" (12.5mm) Centers for Mounting to MS Series Breadboards

The SP04 40mm Axis Cage is part of the series of 16mm Compact Cage System products. The bottom of the plate has two #4-40 (M3) tapped holes on 1/2" (12.5mm) centers for mounting to the SP04B mounting base. One additional #8-32 (M4) tapped hole on the bottom of the plate allows mounting to a TR Post. The SP04B mounting base provides a convenient interface between the SP04 and Mini Series Breadboards.



ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SP04	SP04M	\$ 17.00	£ 10.70	€ 15,80	¥ 162.40	Breadboard Mountable Plate for 16mm Cage System
SP04B*	SP04B*	\$ 9.75	£ 6.10	€ 9,10	¥ 93.10	Mounting Base

*Universal Design, Imperial and Metric Compatible

16mm Slip Plate Positioner

- SM05 (0.535"-40) Internal Thread on One Plate
- 0.635" Clearance Hole on Other Plate
- ±1mm of Manual Adjustment
- Lockable Using Two M3 Screws

The Slip Plate Positioner is designed to provide coarse XY positioning of optical components within our cage assembly system. This design provides manual adjustment only and is best utilized in conjunction with an alignment laser to monitor centricity.



SSP05
SR Rods Not Included

ITEM#	METRIC ITEM#	\$	£	€	RMB	DESCRIPTION
SSP05	SSP05/M	\$ 57.50	£ 36.20	€ 53,50	¥ 549.10	16mm Slip Plate Positioner

Tables & Breadboards

Breadboards – Solid Aluminum

The imperial boards have a 1/2" border and four 1/4"-20 counterbored clearance holes. The larger boards have a fifth counterbored clearance hole in the center for added stability. The plates are machined from 1/2" thick solid aluminum plates for superior flatness specification.

- Custom Sizes Available
- Black Anodized
- Metric Boards Also Manufactured & Stocked in Europe

**SOLID ALUMINUM
CONSTRUCTION!**



The metric boards have a 12.5mm border and four M6 counterbored clearance holes. The larger boards have a fifth counterbored clearance hole in the center for added stability when using heavy equipment. These boards are machined from 12.7mm thick aluminum plates.

Thorlabs now manufactures these boards in Europe as well, eliminating high shipping costs for our European customers.

1/4"-20 Taps on 1" Centers; 1/2" Thick

ITEM#	\$	£	€	RMB	DESCRIPTION
MB4†	\$ 49.40	£ 31.10	€ 45.90	¥ 471.80	4" x 6"
MB4A	\$ 58.00	£ 36.50	€ 53.90	¥ 553.90	4.5" x 4.5"
MB6†	\$ 55.10	£ 34.70	€ 51.20	¥ 526.20	6" x 6"
MB624	\$ 186.00	£ 117.20	€ 173.00	¥ 1,776.30	6" x 24"
MB636	\$ 246.00	£ 155.00	€ 228.80	¥ 2,349.30	6" x 36"
MB648	\$ 306.00	£ 192.80	€ 284.60	¥ 2,922.30	6" x 48"
MB8	\$ 82.00	£ 51.70	€ 76.30	¥ 783.10	8" x 8"
MB810	\$ 143.00	£ 90.10	€ 133.00	¥ 1,365.70	8" x 10"
MB1012	\$ 164.60	£ 103.70	€ 153.10	¥ 1,571.90	10" x 12"
MB12†	\$ 161.10	£ 101.50	€ 149.80	¥ 1,538.50	12" x 12"
MB1218†	\$ 208.66	£ 131.50	€ 194.10	¥ 1,992.70	12" x 18"
MB1224†	\$ 282.30	£ 177.90	€ 262.50	¥ 2,696.00	12" x 24"
MB1236	\$ 505.00	£ 318.20	€ 469.70	¥ 4,822.80	12" x 36"
MB1248	\$ 604.00	£ 380.50	€ 561.70	¥ 5,768.20	12" x 48"
MB1824	\$ 420.00	£ 264.60	€ 390.60	¥ 4,011.00	18" x 24"
MB2424	\$ 537.00	£ 338.30	€ 499.40	¥ 5,128.40	24" x 24"
MB2436	\$ 690.00	£ 434.70	€ 641.70	¥ 6,589.50	24" x 36"
MB2448	\$ 913.00	£ 575.20	€ 849.10	¥ 8,719.20	24" x 48"

† Popular Products @ More Popular Prices

M6-1.0 Taps on 25.0mm Centers; 12.5mm Thick*

ITEM#	\$	£	€	RMB	DESCRIPTION
MB1015/M†	\$ 49.40	£ 31.10	€ 45.90	¥ 471.80	100 x 150mm
MB1111A/M	\$ 58.20	£ 36.70	€ 54.10	¥ 555.80	115 x 115mm
MB1515/M†	\$ 55.10	£ 34.70	€ 51.20	¥ 526.20	150 x 150mm
MB1560/M	\$ 186.00	£ 117.20	€ 173.00	¥ 1,776.30	150 x 600mm
MB1590/M	\$ 246.00	£ 155.00	€ 228.80	¥ 2,349.30	150 x 900mm
MB15120/M	\$ 306.00	£ 192.80	€ 284.60	¥ 2,922.30	150 x 1200mm
MB2020/M	\$ 82.00	£ 51.70	€ 76.30	¥ 783.10	200 x 200mm
MB2025/M	\$ 143.00	£ 90.10	€ 133.00	¥ 1,365.70	200 x 250mm
MB2530/M	\$ 165.00	£ 104.00	€ 153.50	¥ 1,575.80	250 x 300mm
MB3030/M†	\$ 161.10	£ 101.50	€ 149.80	¥ 1,538.50	300 x 300mm
MB3045/M†	\$ 208.66	£ 131.50	€ 194.10	¥ 1,992.70	300 x 450mm
MB3060/M†	\$ 282.30	£ 177.90	€ 262.50	¥ 2,696.00	300 x 600mm
MB3090/M	\$ 505.00	£ 318.20	€ 469.70	¥ 4,822.80	300 x 900mm
MB30120/M	\$ 604.00	£ 380.50	€ 561.70	¥ 5,768.20	300 x 1200mm
MB4560/M	\$ 420.00	£ 264.60	€ 390.60	¥ 4,011.00	450 x 600mm
MB6060/M	\$ 537.00	£ 338.30	€ 499.40	¥ 5,128.40	600 x 600mm
MB6090/M	\$ 690.00	£ 434.70	€ 641.70	¥ 6,589.50	600 x 900mm
MB60120/M	\$ 913.00	£ 575.20	€ 849.10	¥ 8,719.20	600 x 1200mm

*Thickness may vary by ±0.3mm

SlimLine Breadboards – Double Density Hole Pattern



- Double-Density Hole Pattern
- Custom Sizes Also Available
- Black Anodized Solid Aluminum Construction
- Metric Boards Also Manufactured & Stocked in Europe

The new SlimLine series of breadboards provide a double density 0.5" (12.5mm) offset hole pattern. This configuration maximizes mounting versatility by doubling the number of tapped holes on the mounting surface. These boards are constructed from a 1/2" thick aluminum plate to maintain flatness over the full length. The slim profile allows these boards to fit in compact areas.

Thorlabs now manufactures these boards in Europe as well, eliminating high shipping costs for our European customers.

1/4"-20 Taps on 1/2" Centers; 1/2" Thick

ITEM#	\$	£	€	RMB	DESCRIPTION
MB424	\$ 161.00	£ 101.40	€ 149.70	¥ 1,537.60	4" x 24"
MB436	\$ 181.00	£ 114.00	€ 168.30	¥ 1,728.60	4" x 36"
MB612	\$ 124.00	£ 78.10	€ 115.30	¥ 1,184.20	6" x 12"
MB824	\$ 239.00	£ 150.60	€ 222.30	¥ 2,282.50	8" x 24"
MB836	\$ 322.00	£ 202.90	€ 299.50	¥ 3,075.10	8" x 36"

M6-1.0 Taps on 12.5mm Centers; 12.5mm Thick*

ITEM#	\$	£	€	RMB	DESCRIPTION
MB1060/M	\$ 161.20	£ 101.60	€ 149.90	¥ 1,539.50	100 x 600mm
MB1090/M	\$ 181.40	£ 114.30	€ 168.70	¥ 1,732.40	100 x 900mm
MB1530/M	\$ 124.00	£ 78.10	€ 115.30	¥ 1,184.20	150 x 300mm
MB2060/M	\$ 239.00	£ 150.60	€ 222.30	¥ 2,282.50	200 x 600mm
MB2090/M	\$ 322.00	£ 202.90	€ 299.50	¥ 3,075.10	200 x 900mm

*Thickness may vary by 0.3mm



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