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Performance™ Series of Optical Breadboards (Page 1 of 2)

Thorlabs' Performance Series of optical breadboards is a good choice for less demanding applications (for more demanding applications, please consider our PerformancePlus™ breadboards on pages 8 - 9). A favorite of OEMs, these all-steel breadboards are also an ideal laboratory platform for optical and laser experiments in stable environments. Since prices and shipping method vary based on size and weight, please contact your local sales office for a quotation including shipping.

- Athermalized Design for Excellent Thermal Stability
- Minimal Deflection Under Load (Technical Details can be Found on Our Website)
- Plated Steel Honeycomb Core and Internal Damping Provide Both Static and Dynamic Rigidity
- Magnetic Stainless Steel Top and Bottom Plate
- Our State-of-the-Art Material and a Thermal Bonding Process Achieve an Excellent Surface Flatness



Specifications

- **Hole Spacing**
 - Imperial: 1/4"-20 on 1" Centers
 - Metric: M6 on 25 mm Centers
- **Flatness:** $\pm 0.004"$ (± 0.10 mm) Over any 1 ft² (0.3 m²) Area
- **Thickness:** (2.4") 60 mm or (4.3") 110 mm
- **Construction:** Double-Plated, Single Honeycomb-Core, Athermalized Design
- **Core:** High-Density Plated Steel Honeycomb
- **Top Plate:** Magnetic Stainless Steel, 3/16" (5 mm) Thick, Brushed Finish
- **Bottom Plate:** Magnetic Stainless Steel, 3/16" (5 mm) Thick
- **Sides:** Black Laminated Steel
- **Mounting Holes:** Not Sealed
- **Edge of Top Plate to First Hole**
 - Imperial: 2"
 - Metric: 50 mm

Frames Starting on Page 11
ScienceDesks Starting on Page 27

Other Sizes Available
up to 4' x 8'
(1250 mm x 2500 mm)

Have a few
weeks?

Get any
size you
want

Imperial Performance™ Breadboards, 2.4" Thick

ITEM #	\$	£	€	RMB	DIMENSIONS	WEIGHT**
PBH11101	\$ 367.80	£ 264.82	€ 319.99	¥ 2,931.37	1' x 1' x 2.4"	22 lbs/10 kg
PBH11102	\$ 478.80	£ 344.74	€ 416.56	¥ 3,816.04	2' x 1' x 2.4"	41.8 lbs/19 kg
PBH11122	\$ 581.80	£ 418.90	€ 506.17	¥ 4,636.95	2' x 1.5' x 2.4"	57.2 lbs/26 kg
PBH11105	\$ 702.60	£ 505.87	€ 611.26	¥ 5,599.72	2' x 2' x 2.4"	79.2 lbs/36 kg
PBH11110	\$ 933.80	£ 672.34	€ 812.41	¥ 7,442.39	2.5' x 2.5' x 2.4"	123.2 lbs/56 kg
PBH11103	\$ 590.00	£ 424.80	€ 513.30	¥ 4,702.30	3' x 1' x 2.4"	61.6 lbs/28 kg
PBH11106*	\$ 923.80	£ 665.14	€ 803.71	¥ 7,362.69	3' x 2' x 2.4"	114.4 lbs/52 kg
PBH11111*	\$ 1,090.80	£ 785.38	€ 949.00	¥ 8,693.68	3' x 2.5' x 2.4"	147.4 lbs/67 kg
PBH11114	\$ 1,258.40	£ 906.05	€ 1,094.81	¥ 10,029.45	3' x 3' x 2.4"	173.8 lbs/79 kg
PBH11107	\$ 1,144.50	£ 824.04	€ 995.72	¥ 9,121.67	4' x 2' x 2.4"	151.8 lbs/69 kg
PBH11112*	\$ 1,366.30	£ 983.74	€ 1,188.68	¥ 10,889.41	4' x 2.5' x 2.4"	193.6 lbs/88 kg
PBH11115*	\$ 1,589.10	£ 1,144.15	€ 1,382.52	¥ 12,665.13	4' x 3' x 2.4"	226.6 lbs/103 kg
PBH11108	\$ 1,365.50	£ 983.16	€ 1,187.99	¥ 10,883.04	5' x 2' x 2.4"	189 lbs/86 kg
PBH11113	\$ 1,605.20	£ 1,155.74	€ 1,396.52	¥ 12,793.44	5' x 2.5' x 2.4"	235.4 lbs/107 kg
PBH11116	\$ 1,920.50	£ 1,382.76	€ 1,670.84	¥ 15,306.39	5' x 3' x 2.4"	279.4 lbs/127 kg
PBH11117	\$ 2,251.90	£ 1,621.37	€ 1,959.15	¥ 17,947.64	6' x 3' x 2.4"	341 lbs/155 kg
PBH11120	\$ 2,916.40	£ 2,099.81	€ 2,537.27	¥ 23,243.71	6' x 4' x 2.4"	473 lbs/215 kg

* These breadboards are compatible with our ScienceDesk™ Workstations. See pages 27 - 34 to learn more.

**The weights given are for the breadboards alone and do not include packaging.

Performance™ Series of Optical Breadboards (Page 2 of 2)

Metric Performance™ Breadboards, 60 mm Thick

ITEM #	\$	£	€	RMB	DIMENSIONS	WEIGHT**
PBH51501	\$ 364.60	£ 262.51	€ 317,20	¥ 2,905.86	300 mm x 300 mm x 60 mm	24.2 lbs/11 kg
PBH51502	\$ 472.40	£ 340.13	€ 410,99	¥ 3,765.03	600 mm x 300 mm x 60 mm	39.6 lbs/18 kg
PBH51528	\$ 581.00	£ 418.32	€ 505,47	¥ 4,630.57	600 mm x 450 mm x 60 mm	57.2 lbs/26 kg
PBH51505	\$ 689.70	£ 496.58	€ 600,04	¥ 5,496.91	600 mm x 600 mm x 60 mm	77 lbs/35 kg
PBH51510	\$ 894.80	£ 644.26	€ 778,48	¥ 7,131.56	750 mm x 750 mm x 60 mm	114.4 lbs/52 kg
PBH51503	\$ 572.00	£ 411.84	€ 497,64	¥ 4,558.84	900 mm x 300 mm x 60 mm	61.6 lbs/28 kg
PBH51506*	\$ 904.50	£ 651.24	€ 786,92	¥ 7,208.87	900 mm x 600 mm x 60 mm	114.4 lbs/52 kg
PBH51511*	\$ 1,043.30	£ 751.18	€ 907,67	¥ 8,315.10	900 mm x 750 mm x 60 mm	147.4 lbs/67 kg
PBH51514	\$ 1,228.80	£ 884.74	€ 1,069,06	¥ 9,793.54	900 mm x 900 mm x 60 mm	173.8 lbs/79 kg
PBH51507	\$ 1,119.30	£ 805.90	€ 973,79	¥ 8,920.82	1200 mm x 600 mm x 60 mm	149.6 lbs/68 kg
PBH51512*	\$ 1,335.00	£ 961.20	€ 1,161,45	¥ 10,639.95	1200 mm x 750 mm x 60 mm	193.6 lbs/88 kg
PBH51515*	\$ 1,550.60	£ 1,116.43	€ 1,349,02	¥ 12,358.28	1200 mm x 900 mm x 60 mm	231 lbs/105 kg
PBH51508	\$ 1,334.10	£ 960.55	€ 1,160,67	¥ 10,632.78	1500 mm x 600 mm x 60 mm	184.8 lbs/84 kg
PBH51513	\$ 1,566.30	£ 1,127.74	€ 1,362,68	¥ 12,483.41	1500 mm x 750 mm x 60 mm	239.8 lbs/109 kg
PBH51516	\$ 1,872.50	£ 1,348.20	€ 1,629,08	¥ 14,923.83	1500 mm x 900 mm x 60 mm	265 lbs/120 kg
PBH51517	\$ 2,143.10	£ 1,543.03	€ 1,864,50	¥ 17,080.51	1800 mm x 900 mm x 60 mm	341 lbs/155 kg
PBH51525	\$ 2,926.60	£ 2,107.15	€ 2,546,14	¥ 23,325.00	1800 mm x 1250 mm x 60 mm	473 lbs/215 kg
PBH51522	\$ 2,680.40	£ 1,929.89	€ 2,331,95	¥ 21,362.79	2000 mm x 1000 mm x 60 mm	403 lbs/183 kg

*These breadboards can be used with our ScienceDesk™ workstations. See pages 27 - 34 to learn more.

**The weights given are for the breadboards alone and do not include packaging.

Additional Size Options Available

The imperial and metric Performance breadboards featured on these two pages are stocked for immediate shipment. However, Thorlabs also has the tooling and supplies necessary to manufacture numerous other sizes quickly and efficiently with minimal lead time. Please visit www.thorlabs.com to view our non-standard size options and to place an order. Finally, in addition to these stocked and non-stocked Performance breadboard options, Thorlabs can produce truly custom breadboards that offer unique cutouts, hole patterns, and dimensions. Please contact tech support to discuss your application needs.

Thicker Breadboard for
Superior Stiffness



Other Sizes Available
up to 4' x 8'
(1250 mm x 2500 mm)

Imperial Performance™ Breadboards, 4.3" Thick

ITEM #	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBH12111	\$ 1,222.10	£ 879.91	€ 1,063,23	¥ 9,740.14	3' x 2.5' x 4.3"	173.8 lbs/79 kg
PBH12107	\$ 1,243.40	£ 895.25	€ 1,081,76	¥ 9,909.90	4' x 2' x 4.3"	184.8 lbs/84 kg
PBH12112	\$ 1,252.70	£ 901.94	€ 1,089,85	¥ 9,984.02	4' x 2.5' x 4.3"	228.8 lbs/104 kg
PBH12115	\$ 1,666.80	£ 1,200.10	€ 1,450,12	¥ 13,284.40	4' x 3' x 4.3"	270.6 lbs/123 kg
PBH12116	\$ 2,017.60	£ 1,452.67	€ 1,755,31	¥ 16,080.27	5' x 3' x 4.3"	325.6 lbs/148 kg
PBH12117	\$ 2,322.00	£ 1,671.84	€ 2,020,14	¥ 18,506.34	6' x 3' x 4.3"	450 lbs/204 kg

*The weights given are for the breadboards alone and do not include packaging.

Metric Performance™ Breadboards, 110 mm Thick

ITEM #	\$	£	€	RMB	DIMENSIONS	WEIGHT*
PBH52510	\$ 1,054.10	£ 758.95	€ 917,07	¥ 8,401.18	750 mm x 750 mm x 110 mm	130 lbs/59 kg
PBH52507	\$ 1,250.90	£ 900.65	€ 1,088,28	¥ 9,969.67	1200 mm x 600 mm x 110 mm	181 lbs/82 kg
PBH52512	\$ 1,421.50	£ 1,023.48	€ 1,236,71	¥ 11,329.36	1200 mm x 750 mm x 110 mm	228.8 lbs/104 kg
PBH52515	\$ 1,663.70	£ 1,197.86	€ 1,447,42	¥ 13,259.69	1200 mm x 900 mm x 110 mm	270.6 lbs/123 kg
PBH52516	\$ 1,944.50	£ 1,400.04	€ 1,691,72	¥ 15,497.67	1500 mm x 900 mm x 110 mm	334.4 lbs/152 kg
PBH52521	\$ 2,114.80	£ 1,522.66	€ 1,839,88	¥ 16,854.96	1500 mm x 1000 mm x 110 mm	297 lbs/135 kg
PBH52517	\$ 2,281.20	£ 1,642.46	€ 1,984,64	¥ 18,181.16	1800 mm x 900 mm x 110 mm	398.2 lbs/181 kg

*The weights given are for the breadboards alone and do not include packaging.