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ScienceDesk

Accessories

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Optical Breadboard Overview

Thorlabs' honeycomb breadboards are made with the same advanced manufacturing and design methods used for our optical tabletops. We also offer solid aluminum breadboards, which provide a convenient and cost-effective platform for prototyping and optical experiments. Our imperial and metric breadboards range in size from $4" \times 6"$ to $6' \times 4'$ and $100 \text{ mm} \times 150 \text{ mm}$ to $2000 \text{ mm} \times 1250 \text{ mm}$, respectively.

Available Options for Thorlabs' Honeycomb Breadboards

OPTIONAL FEATURES	ULTRALIGHT™ SERIES (Pages 4 - 5)	PERFORMANCE™ SERIES (Pages 6 - 7)	PERFORMANCEPLUS™ SERIES (Pages 8 - 9)	
Brushed Stainless Steel Top Plate	N/A	Standard	Standard	
Black Finish on Top Plate	Standard	Standard 🗸		
Brushed Steel Finish on Top Plate	N/A	✓	V	
Double-Density Hole Pattern	v	✓	✓	
Blank Top Plate	V	V	<i>V</i>	
Access Wells for Standoff Posts	V	v		
Breadboard Levelers	V	V	V	
Nonmagnetic Top and Bottom Plates	Standard	V	✓	
Through Holes/Cutouts	V	V	V	
Custom Hole Patterns	V	v	V	
Aluminum Honeycomb Core	Standard	<i>V</i>	V	

Feature Comparison of Honeycomb Breadboards

OPTIONAL FEATURES	ULTRALIGHT™ SERIES (Pages 4 - 5)	PERFORMANCE TM SERIES (Pages 6 - 7)	PERFORMANCEPLUS™ SERIES (Pages 8 - 9)	
Thickness	1" or 2.2" (25 mm or 55 mm)	2.4" or 4.3" (60 mm or 110 mm)	2.4" or 4.3" (60 mm or 110 mm)	
Flatness	±0.15 mm	±0.10 mm	±0.10 mm	
Skin	Aluminum	Magnetic Stainless Steel	Magnetic Stainless Steel	
Honeycomb Core	Aluminum	Plated Steel	Plated Steel	
Sealed Holes	No	No	Yes	
Weight per Unit Area	4.7 lb/ft² or 6.0 lb/ft² (24 kg/m² or 30 kg/m²)		23 lb/ft² or 28 lb/ft² (114 kg/m² or 137 kg/m²)	

Mini-Series Breadboard

Our miniature breadboard features 4-40 (M3 x 0.5) tapped holes on 1/2" (12.5 mm) centers. These solid-aluminum breadboards are complimented by a full range of optomechanical hardware and

accessories. These mounting components can be found on pages 74 - 86.

4-40 (M3 x 0.5) Tapped Holes on 1/2" (12.5 mm) Centers

MS12B 12" x 12" x 3/8" Breadboard 300 mm x 300 mm x 9.5 mm

long setscrews and 1/4", 3/16", 5/16", and 3/8" long socket screws for use with our mini-series optical mounts.

The HW-KIT5(/M) provides over

1,000 assorted 4-40 (M3 x 0.5) 1/4"

Mini-Breadboard and Hardware Kit

ITEM #	METRIC ITEM #	\$	£	€	RMB	DESCRIPTION
MS12B	MS12B/M	\$ 257.00	£ 185.04	€ 223,59	¥ 2,048.29	12" x 12" High-Density Mini-Breadboard
HW-KIT5	HW-KIT5/M	\$ 92.20	£ 66.38	€ 80,21	¥ 734.83	Hardware Kit for Mini-Series

HW-KIT5 Mini-Series Hardware Kit