For current pricing, please see our website. **Optomechanics**

CHAPTERS

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Table Supports

Optical Table

Performance Series of Optical Tabletops

Thorlabs' Performance Series of tables offer a tuned, broadband enhanced damping system, resulting in increased dynamic stiffness when compared to the Standard Series of tables. By introducing a third intermediate skin into the core of the structure, our triple-skin, doublehoneycomb technology produces an exceptionally rigid composite table. The outer skins are thermally matched with the internal plate to minimize bowing due to temperature variations and cycling and ensure that the flatness of the table is maintained. Mounting holes are sealed with plated-steel cups, making the cleanup of spills easy.



Features

- Flatness: ±0.004" (±0.1 mm) Over any 11.0 ft² (1 m²) Area
- Triple-Skin, Steel, Double Honeycomb
- Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient: < 0.7 x 10⁻³
- Mounting Holes are Sealed with Plated Steel Cups for Easy Cleanup

Specifications

- **Table Thickness:** 8.3" (210 mm)
- **Flatness:** ±0.004" (±0.1 mm) Over any 11.0 ft² (1 m²) Area
- Construction: Triple-Skin, Steel, Double-Honeycomb Core
- Top and Bottom Skins
 - Matched Materials for Athermalized Design
 - Magnetic Stainless Steel, 5 mm Thick
 - Top Skin is Brushed Finish
- Main Core: High-Density, Plated-Steel Honeycomb
- Intermediate Core: Plated-Steel Sealing Cup Honeycomb Structure, 0.5" (13 mm) Thick
- Sides: Black, Laminated-Steel Sides, Slightly Inset
- Maximum Screw Length: 5/8" (16 mm) from Table Surface
- Mounting Hole Pattern
 - Metric: M6 x 1.0 on 25 mm Centers
 Imperial: 1/4"-20 on 1" Centers

Edge to First Hole Center

- Metric: 50 mm on All Sides
- Imperial Models (3.3' Wide): 2.0" on Ends and 2.68" on Sides
- Imperial Models (4.1' Wide): 2.0" on Ends and 2.6" on Sides
- Imperial Models (4.9' Wide): 2.0" on Ends and 2.52" on Sides
- Dynamic Deflection Coefficient (Max): <0.7 x 10^{-3*}
- Relative Table Motion (Max): <0.14 nm (5.5 x 10⁻⁹ in)*
- **Deflection Under Load:** <1.5 μ m (5.9 x 10⁻⁵ in) for a 250 lbs (113 kg) Load*

*Measured on a 4' x 8' x 12.2" table with isolator transmissibility T<0.01 above 10 Hz, environmental vibrations power spectral density (PSD) $<10^{-9}$ g²/Hz.

Imperial, Performance Series of Optical Tables, 1/4"-20 Mounting Holes Stocked in U.S. for Immediate Delivery

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT			
PTQ11108	\$ 4,086.80	£ 2,942.50	€ 3.146,80	¥ 32,571.80	6' x 4.1' x 8.3"	736 lbs/334 kg			
PTQ11109	\$ 5,370.70	£ 3,866.90	€ 4.135,40	¥ 42,804.48	8' x 4.1' x 8.3"	968 lbs/439 kg			
*Please contact your local sales office for a quotation including shipping.									

Metric, Performance Series of Optical Tables, M6 x 1.0 Mounting Holes Stocked in U.K. for Immediate Delivery

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ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT			
PTQ51504	\$ 3,623.20	£ 2,608.70	€ 2.789,90	¥ 28,876.90	2000 mm x 1000 mm x 210 mm	653 lbs/296 kg			
PTQ51508	\$ 4,315.20	£ 3,106.94	€ 3.322,70	¥ 34,392.14	2000 mm x 1250 mm x 210 mm	800 lbs/363 kg			
PTQ51509	\$ 5,515.50	£ 3,971.16	€ 4.246,90	¥ 43,958.54	2500 mm x 1250 mm x 210 mm	992 lbs/450 kg			

*Please contact your local sales office for a quotation including shipping.