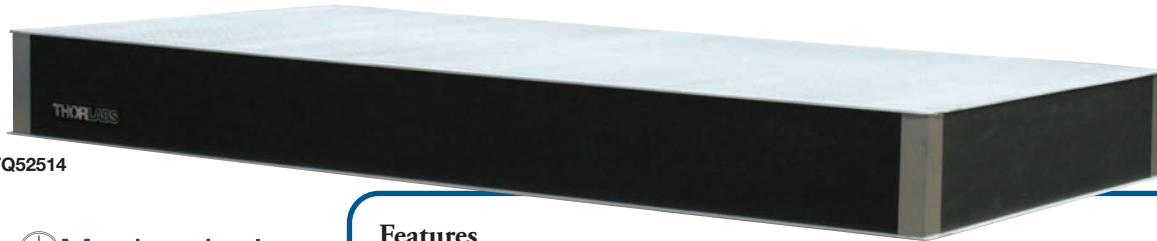


PerformancePlus Series of Optical Tabletops

The PerformancePlus Series of optical tables feature the same damping materials and design as the Performance series range but offers increased stiffness when compared to the Performance Series models due to the increased thickness [12.2" (310 mm) versus 8.3" (210 mm)]. Choose a Plus version of a table if your application would benefit from reduced compliance at a given frequency. All Thorlabs' tabletops offer the highest levels of surface flatness available, high dynamic stiffness, and low relative tabletop motion.



PTQ52514



Features

- Flatness: $\pm 0.004"$ (± 0.1 mm) Over any 11.0 ft² (1 m²) Area
- Construction: Triple-Skin, Steel, Double-Honeycomb Core
- Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient: $< 0.7 \times 10^{-3}$

Specifications

- **Table Thickness:** 12.2" (310 mm)
- **Flatness:** $\pm 0.004"$ (± 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
- **Screw Length (Max):** 5/8" (16 mm)
- **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):** $< 0.7 \times 10^{-3}$ *
- **Relative Table Motion (Max):** < 0.14 nm (5.5×10^{-9} in)*
- **Deflection Under Load:** < 1.5 μ m (5.9×10^{-5} in) for a 250 lb (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.*

Metric, PerformancePlus Series of Optical Tables, M6 x 1.0 Mounting Holes Stocked for Immediate Delivery

ITEM #*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTQ52508	\$ 4,839.20	£ 3,484.22	€ 3,726.20	¥ 38,568.42	2000 mm x 1250 mm x 310 mm	946 lbs/429 kg
PTQ52514	\$ 8,464.60	£ 6,094.51	€ 6,517.70	¥ 67,462.86	3000 mm x 1500 mm x 310 mm	1651 lbs/749 kg

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

Additional Size Options Available

The imperial and metric Performance and PerformancePlus Series of Optical Tables 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 optical table options, Thorlabs can produce truly custom optical tables that offer unique cutouts, hole patterns, and dimensions. Please contact tech support to discuss your application needs.

Performance Series

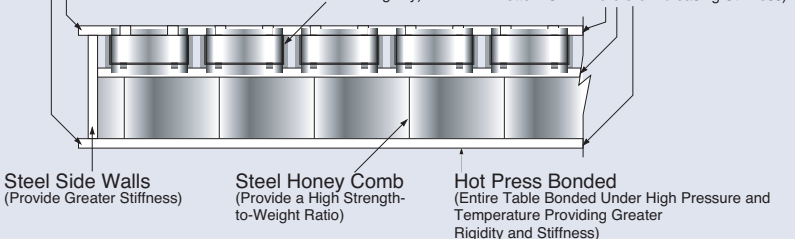
Tabletop with Triple-Skin, Double-Honeycomb Core Including Sealed Mounting Holes

Stainless Steel Top and Bottom Skin

(Same Material Prevents Bowing with Temperature Change)

Steel Sealing Cups
(Ensure Thermal Conductivity and Greater Rigidity)

Triple Layer
(Creates Shorter Elements Between Top and Bottom Skin Therefore Increasing Stiffness)



Steel Side Walls
(Provide Greater Stiffness)

Steel Honey Comb
(Provide a High Strength-to-Weight Ratio)

Hot Press Bonded
(Entire Table Bonded Under High Pressure and Temperature Providing Greater Rigidity and Stiffness)