Performance Series Nonmagnetic Optical Tables

Thorlabs' Nonmagnetic Performance series of tables offer a tuned and broadband enhanced damping system, resulting in increased dynamic stiffness when compared to the Standard series of tables.

Triple-plated, double-honeycomb Nonmagnetic technology produces the most rigid composite tables in the industry. The outer skins are

Nonmagnetic 304L Stainless Steel

Top and Bottom Plates Flatness: ±0.004" (±0.1 mm) Over

any 11.0 ft² (1 m²) Area Construction: Triple-Plated, Double-

Honeycomb Aluminum Core Damping: Proprietary Tuned and

Broadband Damping Dynamic Deflection Coefficient:

<0.7 x 10⁻³

Cross Section of Tabletop

Mounting Holes are Sealed with Brass Cups for Easy Cleanup

matched with the internal plate to minimize bowing due to thermal variations and cycling and to ensure the flatness of the table is maintained. Mounting holes are sealed with brass sealing cups, simplifying the cleanup of spills.



Nonmagnetic 304L Stainless Steel Top and Bottom Skin (Same Material Prevents Bowing Brass Sealing Cups (Ensure Thermal Conductivity and Greater Rigidity) with Temperature Change) Triple Layer (Creates Shorter Elements Between Top and Bottom Skin Therefore Increasing Stiffness)

> Aluminum Honéycomb (Provides a High Strength

to-Weight Ratio)

with the NTS503 self-leveling isolation system, (see page 66). For our full line of vibration-isolation systems, see pages 65-66.

> **Nonmagnetic Triple-Plated Double Honeycomb Design**

Specifications

Aluminum Side Walls

(Provides Greater Stiffness)

- **Table Thickness:** 8.3" (210 mm)
- **Flatness:** ±0.004" (±0.1 mm) Over any 11.0 ft² (1 m²) Area
- **Construction:** Triple-Plated, Double Honeycomb Core
- Top and Bottom Plates
 - · Matched Materials for Athermalized Design
 - Nonmagnetic 304L Stainless Steel, 5 mm Thick
- Core: High-Density, Nonmagnetic, Plated Aluminum Honeycomb

■ Maximum Screw Length: 5/8" (16 mm)

(Entire Table Bonded Under High Pressure and

rature Providing Greater Rigidity and Stiffness)

Hot Press Bonded

- 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

- **Intermediate Core:** Brass Sealing Cup Honeycomb Structure, 0.5" (13 mm) Thick
- **Dynamic Deflection Coefficient** (Max): $<2.5 \times 10^{-3}$
- Relative Table Motion (Max): <0.14 nm(5.5 x 10⁻⁹ in.)*
- **Deflection Under Load:** 250 lbs (113 kg): <1.5 μm (5.9 x 10⁻⁵ in.)³

*Measured on a 4 1' x 8' x 8 3" table with isolator transmissibility T<0.01 above 10 Hz, environmental vibrations PSD < 10°g²/Hz.

Imperial, Performance Series of Nonmagnetic Optical Tables, 1/4"-20 Mounting Holes

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ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
NTQ11109	\$ 7,597.00	£ 5,267.00	€ 6.745,00	¥ 64,150.00	8' x 4.1' x 8.3"	1238 lbs/563 kg
NTQ11114	\$ 10,190.00	£ 7,064.00	€ 9.047,00	¥ 86,045.00	10' x 4.9' x 8.3"	1710 lbs/777 kg

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

Call for Lead Time Metric. Performance Series of Nonmagnetic Optical Tables. M6 x 1.0 Mounting Holes

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ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
NTQ51509	\$ 7,597.00	£ 5,267.00	€ 6.745,00	¥ 64,150.00	2500 mm x 1250 mm x 210 mm	1224 lbs/556 kg
NTQ51514	\$ 10,190.00	£ 7,064.00	€ 9.047,00	¥ 86,045.00	3000 mm x 1500 mm x 210 mm	1755 lbs/798 kg

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

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