

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 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 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: <math> < 0.7 \times 10^{-3}</math>
- Mounting Holes are Sealed with Brass Cups for Easy Cleanup



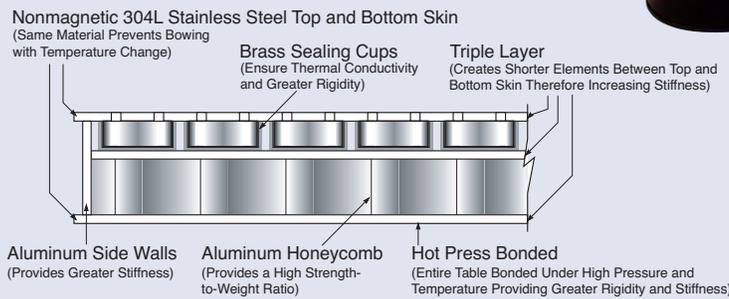
US Patent
5402734

The NTQ11109 Optical Table is shown 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**

Nonmagnetic Performance Series

Cross Section of Tabletop



Specifications

- **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)
- **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):** <math> < 2.5 \times 10^{-3}</math>
- **Relative Table Motion (Max):** <math> < 0.14 \text{ nm} (5.5 \times 10^{-9} \text{ in.})^*</math>
- **Deflection Under Load:** 250 lbs (113 kg): <math> < 1.5 \mu\text{m} (5.9 \times 10^{-5} \text{ in.})^*</math>

**Measured on a 4.1' x 8' x 8.3" table with isolator transmissibility T < 0.01 above 10 Hz, environmental vibrations PSD < 10⁻⁶ g²/Hz.*

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

Call for Lead Time

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.

Metric, Performance Series of Nonmagnetic Optical Tables, M6 x 1.0 Mounting Holes

Call for Lead Time

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.