

Ultra Series Nonmagnetic Optical Tables

The ultimate table for the most demanding research applications, Thorlabs' Nonmagnetic Ultra Series of tables employ maximum tuned and broadband damping, producing an extremely low deflection coefficient.

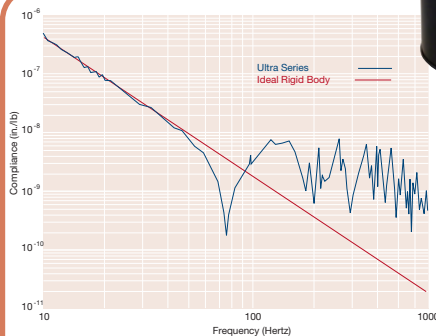
Triple-plated, double-honeycomb technology produces the most rigid composite tables in the industry. The outer skins are matched with the internal plate to minimize bowing due to thermal variations and cycling and to ensure that the flatness of the table is maintained. Mounting holes are sealed with brass sealing cups, simplifying the cleanup of spills.



NTR11109
US Patent
5402734

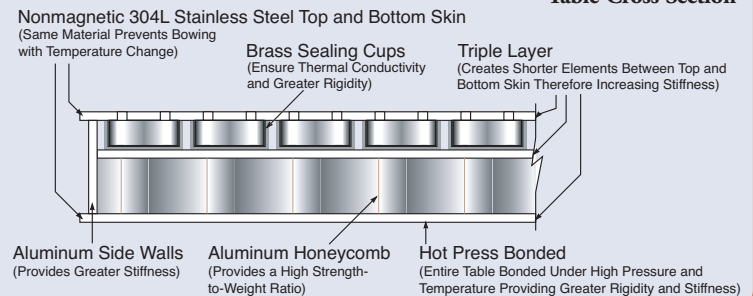
- Nonmagnetic 304L Stainless Steel Top and Bottom Plates
- Flatness: $\pm 0.004"$ (± 0.1 mm)
Within Hole Pattern, $\pm 0.002"$
(± 0.05 mm) Over any 11.0 ft² (1 m²) Area
- Construction: Triple-Plated, Double-Honeycomb Aluminum Core
- Damping: Maximum Proprietary Tuned and Broadband Damping
- Dynamic Deflection Coefficient: $< 0.5 \times 10^{-3}$
- Brass Sealing Cups

The NTR11109 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.



Typical Compliance Curve for the Ultra Series Table – Measured at Table Corner

Nonmagnetic Ultra Series Table Cross Section



Specifications

- **Table Thickness:** 8.3" (210 mm)
- **Flatness:** $\pm 0.004"$ (± 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
- **Main Core:** High-Density 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 Aluminum Honeycomb Structure, 0.5" (13 mm) Thick
- **Dynamic Deflection Coefficient (Max):** $< 1.3 \times 10^{-3}$ *
- **Relative Table Motion (Max):** < 0.10 nm (4×10^{-9} in.)*
- **Deflection Under Load:** 250 lbs (113 kg): < 1.5 μ m (5.9×10^{-5} in.)*

**Measured on a 4.1' x 8' x 8.3" table with isolator transmissibility $T < 0.01$ above 10 Hz, environmental vibrations PSD $< 10^{-9}$ g²/Hz.*

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

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
NTR11109	\$ 9,174.00	£ 6,360.00	€ 8,145.00	¥ 77,466.00	8' x 4.1' x 8.3"	1339 lbs/609 kg
NTR11114	\$ 11,790.00	£ 8,174.00	€ 10,468.00	¥ 99,556.00	10' x 4.9' x 8.3"	1544 lbs/702 kg

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

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

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
NTR51509	\$ 8,888.00	£ 6,162.00	€ 7,891.00	¥ 75,051.00	2500 mm x 1250 mm x 210 mm	1395 lbs/634 kg
NTR51514	\$ 12,141.00	£ 8,417.00	€ 10,779.00	¥ 102,519.00	3000 mm x 1500 mm x 210 mm	1913 lbs/870 kg

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