

Standard Series of Optical Tabletops (Page 1 of 2)

Thorlabs' Standard Series of optical tables are a cost-effective choice for general-purpose applications. These tables utilize similar construction techniques and the same high-quality materials as the Ultra range of tables. With a single steel core and broadband damping, this series offers enhanced dynamic rigidity and stiffness.

The Standard Series of tabletops are ideally suited for less demanding general photonics applications but would not be recommended for highly sensitive interferometric applications.



The PTM11108 optical table is shown with the PTP603 passive isolation system featured on page 62.

Table Supports Sold Separately
For our full line of vibration-isolation systems, see pages 59-66.

US Patent 5402734

Standard Series - Suited for Less-Demanding, General Photonics Applications

Features

- Athermalized Design for Excellent Thermal Stability
- Minimal Deflection Under Load
- Excellent Surface Flatness, Achieved Using a Thermal Bonding Process Under Pressure
- Flatness: $\pm 0.004'' (\pm 0.1 \text{ mm})$ Over any $11.0 \text{ ft}^2 (1 \text{ m}^2)$ Area
- Double-Plated, Single-Honeycomb Core
- Proprietary Broadband Damping
- High-Density Honeycomb Core

Specifications

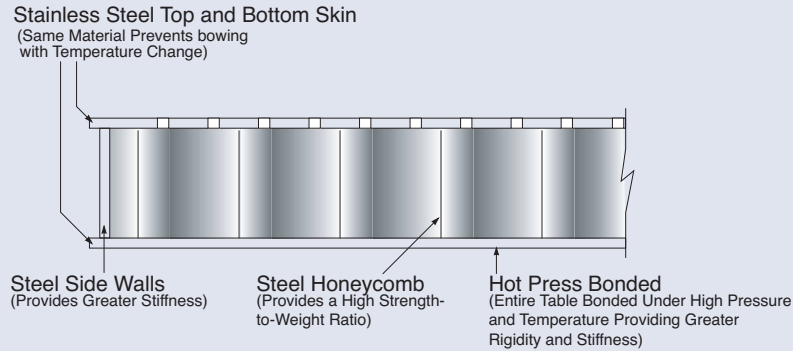
- **Table Thickness:** 8.3" (210 mm)
- **Flatness:** $\pm 0.004'' (\pm 0.1 \text{ mm})$ Over any $11.0 \text{ ft}^2 (1 \text{ m}^2)$ Area
- **Construction:** Double-Plate, Single-Honeycomb Core
- **Top and Bottom Plates**
 - Matched Materials for Athermalized Design
 - Magnetic Stainless Steel, 5 mm Thick
 - Top Plate is Brush Finished
- **Core:** High-Density, Plated Steel Honeycomb
- **Damping:** Proprietary Broadband Damping
- **Sides:** Black Laminated-Steel Sides, Slightly Inset
- **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 Models: 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):** $< 1.3 \times 10^{-3}^*$
- **Relative Tabletop Motion (Max):** $< 0.27 \text{ nm}$ ($10.5 \times 10^{-9} \text{ in}$)*
- **Deflection Under Load:** 250 lbs (113 kg): $< 1.65 \text{ }\mu\text{m}$ ($6.5 \times 10^{-5} \text{ in}$)*

*Measured on a 4' x 8' x 12.2" table with isolator transmissibility $T < 0.01$ above 10 Hz, environmental vibrations PSD $< 10^9 \text{ g/Hz}$.

Standard Series of Optical Tabletops (Page 2 of 2)

Standard Series

Cross Section of Tabletop with Double-Plated Design



Imperial, Standard 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
PTM11104	\$ 2,364.00	£ 1,639.00	€ 2,099.00	¥ 19,962.00	6' x 3.3' x 8.3"	489 lbs/222 kg
PTM11108	\$ 2,763.00	£ 1,915.50	€ 2,453.00	¥ 23,331.00	6' x 4.1' x 8.3"	701 lbs/281 kg
PTM11109	\$ 3,407.00	£ 2,362.00	€ 3,025.00	¥ 28,769.00	8' x 4.1' x 8.3"	838 lbs/380 kg

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

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

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTM11105	\$ 2,876.00	£ 1,993.50	€ 2,553.50	¥ 24,286.00	8' x 3.3' x 8.3"	782 lbs/355 kg
PTM11113	\$ 4,070.00	£ 2,821.50	€ 3,613.50	¥ 34,368.00	8' x 4.9' x 8.3"	987 lbs/448 kg
PTM11106	\$ 3,546.00	£ 2,458.00	€ 3,148.00	¥ 29,943.00	10' x 3.3' x 8.3"	835 lbs/379 kg
PTM11110	\$ 4,340.00	£ 3,009.00	€ 3,854.00	¥ 36,648.00	10' x 4.1' x 8.3"	1056 lbs/479 kg
PTM11114	\$ 4,779.00	£ 3,313.00	€ 4,243.00	¥ 40,354.00	10' x 4.9' x 8.3"	1234 lbs/560 kg
PTM11111	\$ 5,112.00	£ 3,544.00	€ 4,539.00	¥ 43,166.00	12' x 4.1' x 8.3"	1239 lbs/562 kg
PTM11115	\$ 5,776.00	£ 4,005.00	€ 5,128.00	¥ 48,773.00	12' x 4.9' x 8.3"	1679 lbs/762 kg

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

Metric, Standard Series of Optical Tables, M6 x 1.0 Mounting Holes

Stocked in U.K. for Immediate Delivery

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTM51504	\$ 2,364.00	£ 1,639.00	€ 2,099.00	¥ 19,962.00	2000 mm x 1000 mm x 210 mm	569 lbs/258 kg
PTM51508	\$ 2,763.00	£ 1,915.50	€ 2,453.00	¥ 23,331.00	2000 mm x 1250 mm x 210 mm	696 lbs/316 kg
PTM51509	\$ 3,407.00	£ 2,362.00	€ 3,025.00	¥ 28,769.00	2500 mm x 1250 mm x 210 mm	868 lbs/394 kg

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

Metric, Standard Series of Optical Tables, M6 x 1.0 Mounting Holes

Call for Lead Time

ITEM#*	\$	£	€	RMB	DIMENSIONS (L x W x H)	WEIGHT
PTM51505	\$ 2,876.00	£ 1,993.50	€ 2,553.50	¥ 24,286.00	2500 mm x 1000 mm x 210 mm	635 lbs/288 kg
PTM51513	\$ 4,070.00	£ 2,821.50	€ 3,613.50	¥ 34,368.00	2500 mm x 1500 mm x 210 mm	961 lbs/436 kg
PTM51506	\$ 3,546.00	£ 2,458.00	€ 3,148.00	¥ 29,943.00	3000 mm x 1000 mm x 210 mm	871 lbs/395 kg
PTM51510	\$ 4,340.00	£ 3,009.00	€ 3,854.00	¥ 36,648.00	3000 mm x 1250 mm x 210 mm	1027 lbs/466 kg
PTM51514	\$ 4,779.00	£ 3,313.00	€ 4,243.00	¥ 40,354.00	3000 mm x 1500 mm x 210 mm	1340 lbs/608 kg
PTM51511	\$ 5,112.00	£ 3,544.00	€ 4,539.00	¥ 43,166.00	3750 mm x 1250 mm x 210 mm	1481 lbs/672 kg
PTM51515	\$ 5,776.00	£ 4,005.00	€ 5,128.00	¥ 48,773.00	3750 mm x 1500 mm x 210 mm	1477 lbs/670 kg

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

T-Cubes: Laboratory Automation Tools



The T-Cube product line provides a compact system of over a dozen instruments that facilitate lab automation. The T-Cubes address the space and cable management problems that come with system automation. All the T-Cubes have a manual interface and preprogrammed default settings that allow for immediate, basic control of any compatible device upon connecting it to the controller. In addition, each controller has a USB interface through which the T-Cube can be operated remotely via a computer.



See Pages 542-547

