

Microscopy and Laser Imaging

IsoPlate Vibration Damping System

The Thorlabs IsoPlate Vibration Damping System is designed to offer a moderate amount of benchtop vibration isolation.

This system consists of two products:

- A honeycomb plate with stainless steel top that is designed to support the imaging system and provide broadband damping of acoustic vibrations
- A light but strong steel IsoPlate Base with a pneumatic system designed to isolate the honeycomb plate from vibrations coupled to the bench or table

The pneumatic system comprises four inflated cushions, of which one pair has a coupled air reservoir and the other two are independently inflated. This arrangement provides stable, three-point dynamics to the system.

The standard IsoPlate System includes a size-matched base and a honeycomb plate. If there is a need for a traditional optical breadboard surface with an array of 1/4"-20 or M6 threaded holes, the required breadboard can be selected from our line of optical breadboards, and then the IsoPlate Base can be purchased separately.



PTT300600

Features

- Three Independent Schrader Valves for Easy Inflation
- No Need for a Constant Air Supply
- Three Point Stability

Specifications

- **Load Capacity:** 45-180kg (100-400lbs)
- **Air Connection:** Shraeder Valve
- **Air Pressure Required:** 415kPa (60psi) maximum
- **Finish:** Two Tone Gray

VIBRATION ISOLATION DATA			
Resonant Frequency		Transmissibility (Isolation Efficiency) in dB	
Vertical	Horizontal	Vertical	Horizontal
<3.5Hz	<3.5Hz	<9 at Resonance	<9 at Resonance
<3.5Hz	<3.5Hz	<0.2 (> 80% Isolation) at 10Hz	<0.2 (> 80% Isolation) at 10Hz

Choice of vibration isolation options for delicate imaging and photonics setups.

See Pages 1-14

Thorlabs' Performance™ Optical Breadboards provide high performance at an economical price. These 60mm (2.4") thick optical breadboards offer the same construction techniques as our standard Performance Series range but with no holes drilled into the top plate. They provide high stiffness and standard damping, making them an ideal solution for microscopy applications.



MIP1 Shown With Plate

IsoPlate Vibration Damping System

ITEM#	\$	£	€	RMB	DESCRIPTION
MIP1	\$ 1,300.50	£ 819.30	€ 1,209.50	¥ 12,419.80	300 x 600mm (11.8" x 23.6") Base & Plate
MIP2	\$ 1,524.90	£ 960.70	€ 1,418.20	¥ 14,562.80	600 x 600mm (23.6" x 23.6") Base & Plate
MIP3	\$ 1,674.50	£ 1,054.90	€ 1,557.30	¥ 15,991.50	900 x 600mm (35.4" x 23.6") Base & Plate

ITEM	\$	£	€	RMB	DESCRIPTION
PTT300600	\$ 875.00	£ 551.30	€ 813.80	¥ 8,356.30	IsoPlate Passive Isolation Base 300 x 600 x 90mm (11.8" x 23.6" x 3.5")
PTT600600	\$ 950.00	£ 598.50	€ 883.50	¥ 9,072.50	IsoPlate Passive Isolation Base 600 x 600 x 90mm (23.6" x 23.6" x 3.5")
PTT900600	\$ 1,000.00	£ 630.00	€ 930.00	¥ 9,550.00	IsoPlate Passive Isolation Base 900 x 600 x 90mm (35.4" x 23.6" x 3.5")