THORLABS

PTT600600
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Iso-Plate Benchtop Vibration Isolation System

1.1 Overview

The Iso-Plate benchtop passive vibration isolation system provides portability and localized air suspension for small-scale experiments, demonstrations and vibration-sensitive instrumentation.

The system is offered in three sizes, 300 x 600mm (11.8" x 23.6"), 600 x 600mm (23.6" x 23.6") and 900 x 600mm (35.4" x 23.6"). The breadboard (available separately) sits on 4 rubber pads.

The pneumatic system comprises 4 inflated cushions, of which a pair have a coupled air reservoir and the remaining two cushions are independently inflated. This arrangement provides stable, three point dynamics to the system.

Air suspension is achieved via three valves on the front panel which can be inflated by a standard foot pump (PTA126).

1.2 Setup

1) Ensure the worksurface is level.

Warning

During item 2):

Breadboards should be manipulated only using appropriate lifting equipment.

Breadboards should be lifted only in an unpopulated condition.

2) Lift the breadboard into position.
3) Connect a foot pump to the air connections on the front panel and inflate each mount until the breadboard begins to rise – see Fig. 1.1.



Fig. 1.1 Inflating passive anti-vibration mounts

Caution

During item (4), the total load including the breadboard must not exceed 180kg (400 lb)

4) Populate the breadboard.

Caution

During item (5), It may be necessary to inflate each mount to a different pressure due to the loading of the breadboard

Do not exceed 60 p.s.i.

5) Further inflate the mounts until the breadboard is level and a gap of 5 to 8mm is present between the bottom and top plates - see Fig. 1.2.

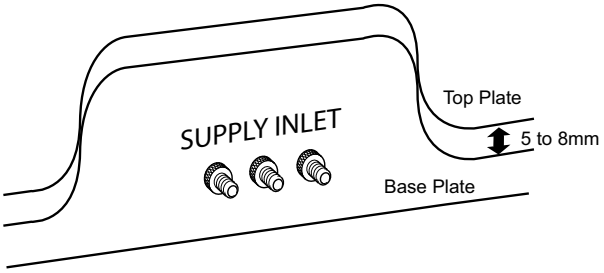


Fig. 1.2 Correct inflation gap

6) Fit the dust caps.

1.3 Specifications

Air Pressure Required: 60psi (415kPa)
Load Capacity: 45 to 180 kg (100 to 400 lbs)
Isolation Type: Passive
Finish: Light Grey

Thorlabs Worldwide Contacts

For technical support or sales inquiries, please visit us at www.thorlabs.com/contact for our most up-to-date contact information.



USA, Canada, and South America
Thorlabs, Inc.
sales@thorlabs.com
techsupport@thorlabs.com

Europe
Thorlabs GmbH
europe@thorlabs.com

France
Thorlabs SAS
sales.fr@thorlabs.com

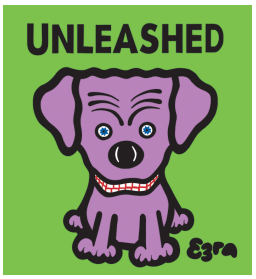
Japan
Thorlabs Japan Inc.
sales@thorlabs.jp

UK and Ireland
Thorlabs Ltd.
sales@uk.thorlabs.com
techsupport.uk@thorlabs.com

Scandinavia
Thorlabs Sweden AB
scandinavia@thorlabs.com

Brazil
Thorlabs Vendas de Fotônicos Ltda.
brasil@thorlabs.com

China
Thorlabs China
chinasales@thorlabs.com



THORLABS
www.thorlabs.com