

Tables & Breadboards

ScienceDesk™

Breadboards

Breadboard Supports

Optical Tables

Table Supports

Non-Magnetic

Benchtop Passive Isolation System

The IsoPlate benchtop passive vibration isolation system provides portability and localized air suspension for small-scale experiments, demonstrations, and vibration-sensitive instrumentation. The breadboard (available separately) sits on four rubber pads. The pneumatic system has four inflated cushions, of which two have a coupled air reservoir and the remaining two 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, see page 68). Alternatively, a constant supply can be used via the Pressure Control Panel (see page 68).



Breadboard is Not Included
Inflates Using a Standard
Foot Pump, PTA126

Specifications

- **Load Capacity:** 45-180kg (100-400lbs)
- **Air Pressure Required:** 60psi (415kPa) Max
- **Air Connection:** Schrader Valve
- **Inflation Method:** Foot Pump or Pressure Control Panel (See Page 68)

| ITEM | \$ | £ | € | RMB | DESCRIPTION |
|-----------|-------------|----------|----------|------------|--|
| PTT300600 | \$ 875.00 | £ 551.30 | € 813.80 | ¥ 8,356.30 | IsoPlate Passive Isolation System 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 System 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 System 900 x 600 x 90mm (35.4" x 23.6" x 3.5") |

Passive Isolation Mounts



Specifications

PWA071

- **Load Capacity:** 34-135kg, (75- 297lbs)
- **Air Pressure Required:** Max 60psi (415kPa)
- **Footprint:** 106 x 106mm (4.17" x 4.17")
- **Height:** 65mm (2.56")

PWA072

- **Load Capacity:** 69-275kg, (150-606lbs)
- **Air Pressure Required:** Max 80psi (550kPa)
- **Footprint:** 130 x 130mm (5.12" x 5.12")
- **Height:** 90mm (3.54")

Features

- Simple, Passive Isolation Mounts for Desktop/Floor Use
- Inflated by Standard Schrader Valve (i.e. Car Tire Valve)
- Rigid Wall Design for Superior Performance and Stability

These passive isolation mounts are well suited for use with breadboards and tables. They will provide passive isolation between the work surface or benchtop and the breadboard/table. The air bladder provides isolation, which can be adjusted using the PTA126 foot pump (see page 68) or our Pressure Control Panel (see page 68).

Vibration Isolation Data

| Resonant Frequency | | Transmissibility (Isolation Efficiency) | |
|--------------------|------------|--|--|
| Vertical | Horizontal | Vertical | Horizontal |
| <3.5Hz | <3.5Hz | <9dB at Resonance <0.2dB (>80%) at 10Hz | <9dB at Resonance <0.2dB (>80%) at 10Hz |

*Note: Measured using a 1.25m x 2.5m x 210mm (4' x 8' x 8.3") table.

| ITEM | THREAD | \$ | £ | € | RMB | DESCRIPTION |
|--------|--------|-----------|----------|----------|------------|--|
| PWA071 | M10 | \$ 122.40 | £ 77.10 | € 113.80 | ¥ 1,168.90 | Normal-Duty Passive Isolation Mount (Each) |
| PWA072 | M12 | \$ 192.10 | £ 121.00 | € 178.70 | ¥ 1,834.60 | Heavy-Duty Passive Isolation Mount (Each) |

*Metric only. Imperial versions available upon request. Please contact your local sales office for a quotation including shipping.