

ScienceDesk™ Frames – Passive Vibration Isolation (Heavy-Duty and Standard)

**NEW
design**



SDH90120

See Pages 31-32
for Breadboards

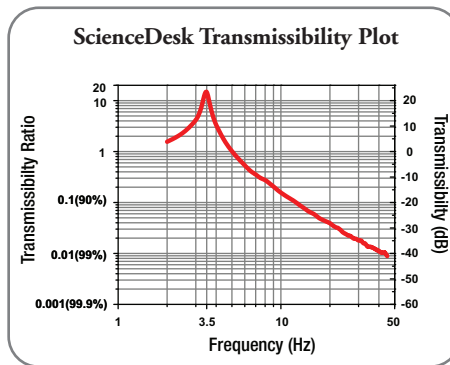
Passive ScienceDesk Frames are designed for vibration-sensitive applications; they can also be used to isolate a work surface from the vibrations found in a noisy environment. These frames are available in two versions with different load-bearing specifications: standard frames with a load capacity of 50 to 570 lbs (24 to 260 kg) and heavy-duty frames with a load capacity of 300 to 1540 lbs (135 to 700 kg). It is important to note that the frame must bear the minimum specified weight to comply with the isolation specifications. These passive frames have a transmissibility ratio (i.e., the displacement of the isolated system divided by the input displacement) of 0.15 at 10 Hz; this ratio is commonly used to describe the responsiveness of a vibration isolation system.

Our passive isolation frames are frequently used for imaging applications with micron resolution. The pneumatic isolators on the passive frames do not require a constant air supply once inflated with a simple air pump such as our PTA126.

- Ergonomic Workplace Systems for Manufacturing and Scientific Research
- Modular Design Allows for Customization of Your Work Space
- Range of Adaptable Accessories Available
- Steel Frame Design

Specifications

- **Load Capacity (Including Breadboard):**
Standard: 50-570 lbs (24-260 kg)
Heavy-Duty: 300-1540 lbs (135-700 kg)
- **Frame Size:** 195 mm Deeper and Wider than the Work Surface Size
- **Air Pressure Required:** 72 psi (496 kPa) Maximum
- **Height Adjustment Range:** Leveling Feet: ±0.59" (15 mm)
- **Finish:** Dark Gray
- **Isolation Type:** Passive
- **Resonant Frequency:** Vertical: 3.5 Hz
- **Transmissibility (at Resonance):** Vertical: 24 dB
- **Transmissibility (at 10Hz):** Vertical: -16 dB (84%)
- **Ergonomics:** In Accordance with BS EN 527 and BS EN 1335



Simple Air Pump for use with Our Passive Isolators

ITEM#	\$	£	€	RMB
PTA126	\$ 39.90	£ 27.70	€ 35.50	¥ 337.00

ScienceDesk Frames – Standard, Passive Vibration Isolation

Stocked for Immediate Delivery

ITEM#	\$	£	€	RMB	ACCEPTED BREADBOARD SIZE	FRAME WEIGHT*
SDP7590	\$ 1,650.00	£ 1,144.00	€ 1,465.00	¥ 13,933.00	2.5' x 3' (750 mm x 900 mm)	146 lbs (66.5 kg)
SDP75120	\$ 1,675.00	£ 1,161.00	€ 1,487.00	¥ 14,144.00	2.5' x 4' (750 mm x 1200 mm)	154 lbs (70 kg)
SDP90120	\$ 1,700.00	£ 1,178.50	€ 1,509.50	¥ 14,355.00	3' x 4' (900 mm x 1200 mm)	163 lbs (74 kg)

*The weights listed are only for the frame and do not include packaging. Please contact your local sales office for a quotation including shipping.

ScienceDesk Frames – Heavy-Duty, Passive Vibration Isolation

Call for Lead Time

ITEM#	\$	£	€	RMB	ACCEPTED BREADBOARD SIZE	FRAME WEIGHT*
SDH7590	\$ 1,736.00	£ 1,203.50	€ 1,541.00	¥ 14,659.00	2.5' x 3' (750 mm x 900 mm)	149 lbs (67.5 kg)
SDH75120	\$ 1,775.00	£ 1,230.50	€ 1,576.00	¥ 14,989.00	2.5' x 4' (750 mm x 1200 mm)	156 lbs (71 kg)
SDH90120	\$ 1,800.00	£ 1,248.00	€ 1,598.00	¥ 15,200.00	3' x 4' (900 mm x 1200 mm)	165 lbs (75 kg)

*The weights listed are only for the frame and do not include packaging. Please contact your local sales office for a quotation including shipping.