



Selecting Optical-Table Support Systems

Vibration isolators prevent motion and vibration from disturbing components mounted on an optical tabletop or breadboard. The best isolator for an application depends upon experiment sensitivity, tabletop weight, and environmental vibration (noise).

We recommend that you consider both immediate and future needs when choosing an isolator system. Specific isolator performance is provided on the following pages.

Should you require further assistance, our applications engineers will be pleased to help.

Isolator System Performance Comparison

	Rigid Non-isolating Supports	Pump&Go™ Passive Vibration Isolators				SuperDamp™ Self-Leveling Vibration Isolators	
		Standard Duty		Heavy Duty		Vert	Horiz
		Vert	Horiz	Vert	Horiz		
Resonant Frequency	Non-isolating	<5 Hz	<4 Hz	<5.5 Hz	<4.5 Hz	<1.35 Hz	<1.0 Hz
Transmissibility (at Resonance)	Non-isolating	<6	<9.2	<6.5	<9	<4	<4
Transmissibility (at 10 Hz)	Non-isolating	<0.25	<0.13	<0.4	<0.25	<0.02	<0.03
Isolation Type	Non-isolating	Passive		Passive		Active	
Damping Efficiency	Non-isolating	Good		Good		Best	
Load Capacity (set of 4)	2500 kg (5500 lb)	1100 kg (2425 lb)		2200 kg (4840 lb)		2500 kg (5500 lb)	

Isolator System Feature Comparison

Feature	Rigid Non-isolating Supports	Pump&Go™ Passive Vibration Isolators		SuperDamp™ Self-Leveling Vibration Isolators
		Standard Duty	Heavy Duty	
Automatic Self-Leveling				✓
Manual Leveling	✓	✓	✓	✓
Dual-Chamber Damped Pneumatic Spring				✓
Trifilar Suspension System				✓
Magnetic-Sensor Coupling				✓
3-Way Precision Valving				✓
Nonresonant Design	✓	✓	✓	✓