

ACTIVE VIBRATION ISOLATION



SCIENTIFIC INSTRUMENTS

AVI-Series

The Modular System



	Dimensions	Max. Load/Unit
AVI-200S/LP	360 x 120 x 112,5 mm ³	200 kg
AVI-200M/LP	600 x 130 x 112,5 mm ³	200 kg
AVI-200XL/LP	820 x 130 x 112,5 mm ³	200 kg
AVI-400S/LP	360 x 190 x 112,5 mm ³	400 kg
AVI-400M/LP	720 x 190 x 112,5 mm ³	400 kg
AVI-400EM/LP	(750 x 190 x 118 mm ³)	400 kg
AVI-400XL/LP	820 x 230 x 112,5 mm ³	400 kg
AVI-600S/LP	396 x 288 x 112,5 mm ³	600 kg
AVI-600M/LP	720 x 288 x 112,5 mm ³	600 kg
AVI-600EM/LP	(750 x 288 x 118 mm ³)	600 kg
AVI-600XL/LP	820 x 318 x 112,5 mm ³	600 kg

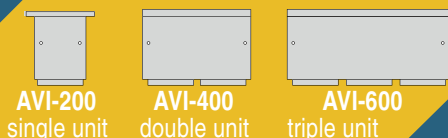
passively isolated

actively isolated

Modular vibration isolation solutions

The AVI-Series is an adaptable system consisting of at least two modules and one controller unit. It is ideal for supporting delicate high resolution instruments, allowing the ultimate performance to be achieved from these. This system offers excellent isolation in typical laboratory environments.

The isolation of the AVI-Series begins at 1.2Hz, increasing rapidly to 35db beyond 10Hz.



AVI-200 single unit

AVI-400 double unit

AVI-600 triple unit

The AVI-Series systems are available as single unit (AVI-200), double unit (AVI-400), and triple unit (AVI-600), which can be mixed to fit numerous applications and weight requirements, allowing for loads from a few kg to more than 2 tons!

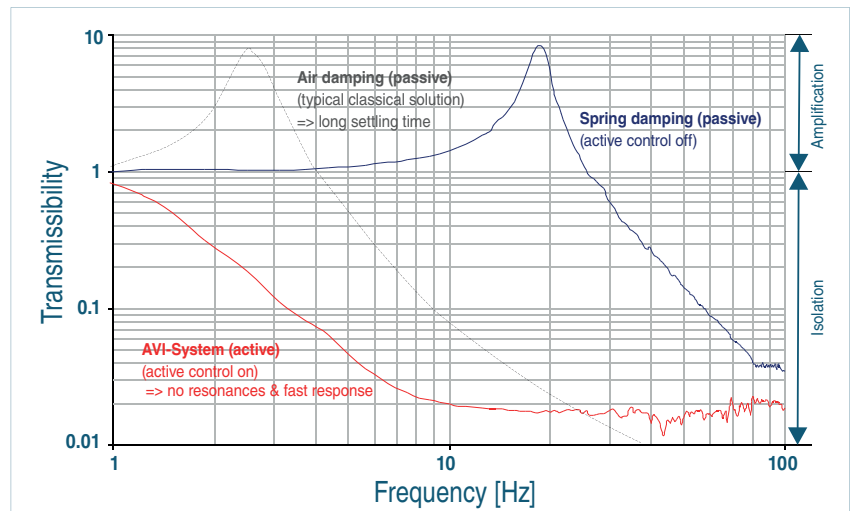
Key Applications

- Cryogenics
- Scanning Electron Microscopy
- Laser Scanning Microscopy
- Transmission Electron Microscopy
- Quantum Technology Research
- Stationary Roughness Measuring Systems
- Nanoengineering & Nanolithography
- Scanning Probe Microscopy (AFM, STM)
- Scanning Near-Field Optical Microscopy
- Micro & Nano Hardness Tester
- Interferometry & Wafer Inspection Systems
- and more!

Supporting focus

Advantages active vs. passive

- Small size
- No air required
- No set-up time
- Lack of any low frequency resonance
- Inherent stiffness \hookrightarrow 500x greater than that of a 1Hz passive isolator
- Rapid recovery time from shock (<10ms)
- Isolation in all six translational and rotational vibration modes
- Superior to any passive system

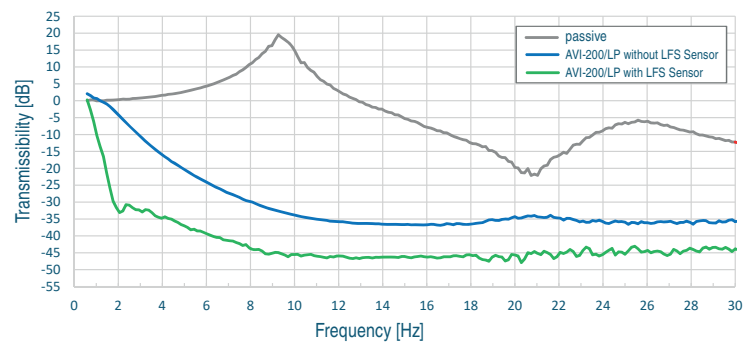


Accessories



LFS-3
Low Frequency Sensor

Increasing the vibration isolation capabilities of any standard AVI-Series system down to frequencies of 0.7Hz. The LFS-3 can be retro-fitted to any AVI-series system.



Exciter Box

Turning the AVI-Series antivibration isolation systems into a shaker in any direction

Support Frame

Rigid support frames for AVI-Series systems

