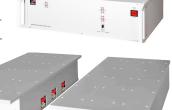


# **AVI-600 Series**

### Overview

The AVI-600 platforms provide industry-leading active vibration isolation performance (starting at 0.5 Hz) for very large microscopes performing nanoscale research. The AVI-600 platforms help users achieve more from their research by removing disruptive low-frequency vibration noise from affecting their measurements.

The AVI-600 platforms include a low-profile and modular design, becoming the perfect solution for users wanting an effective and easy-to-install platform to protect their high-load instruments from low-frequency vibrations.



AVI-600M Isolators and AVI-600 Controller



## **Product Highlights**

- Active Isolation from 1 to 200 Hz (starting at 0.5 Hz with the LFS System)
- Passive Isolation Beyond 200 Hz
- Isolates vibrations in all six degrees of freedom
- Advanced piezoelectric sensors & actuators
- Internal feedback loop damps resonances
- Compact, modular form factor with easy installations

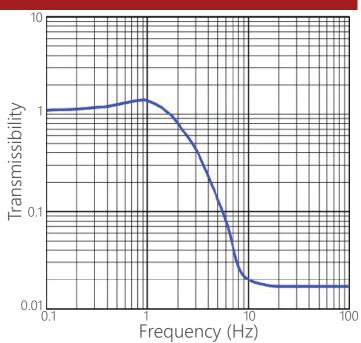
# **Applications**

- Electron Microscopy
- UHV-SPM
- Lithography
- High Precision Metrology
- Spectrometry
- And More!



### Acoustic, Vibration, and EMI Isolation Specialists

#### **TRANSMISSIBILITY**



#### Performance Highlights

- Active Vibration Isolation from 1 200 Hz\*
- Passive Vibration Isolation from 200 Hz and beyond
- 90% Vibration Attenuation at 5.5 Hz
- 99% Vibration Attenuation at 10 Hz and beyond

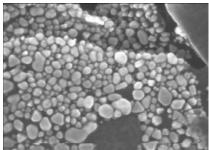
\*Improved Sub-Hertz Isolation Performance Available with the LFS-3 System

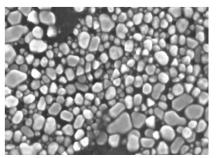
### Performance

The performance graph is to be considered for all AVI Series platforms. The transmissibility graph is a conservative estimate of performance in any given lab environment and pertains to all six translational and rotational modes of vibration (all six degrees of freedom).

#### Performance Comparison Images

A researcher operating an SEM imaged a sample under two unique conditions: without a vibration isolation system and with an AVI platform. The resulting images demonstrate a significant improvement in image quality and overall measurement clarity when an AVI platform is used to support an SEM.





Without Vibration Isolation

With Active Vibration Isolation

MODEL	LOAD CAPACITY (Values Represent A Two Isolator Platform)				<b>DIMENSIONS</b> (Individual Isolator Dimensions)					
Model #	Minimum Load		Maximum Load		Width		Depth		Height	
	Lbs	Kgs	Lbs	Kgs	Inches	MM	Inches	MM	Inches	MM
AVI-600S	0	0	2,100	954.5	11.3	288	15.6	396	4.4	112.5
AVI-600M	0	0	3,000	1,363	11.3	288	28.3	720	4.4	112.5
AVI-600XL	0	0	3,000	1,363	11.3	288	33.7	856	4.4	112.5

Selection Guide Tip #1: To determine the correct AVI-600 model for your instrument, compare your instrument's weight to the load capacity figures above to confirm the platform can provide adequate support. If the instrument's weight exceeds the platform's load capacity, additional isolators will be recommended.

**Selection Guide Tip #2:** Compact instruments (≤ 30 x 30") are supported by the AVI-600S platform; medium-sized instruments (≤ 40 x 40") are supported by the AVI-600M platform, and large instruments (> 40 x 40") are supported by the AVI-600XL platform.



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