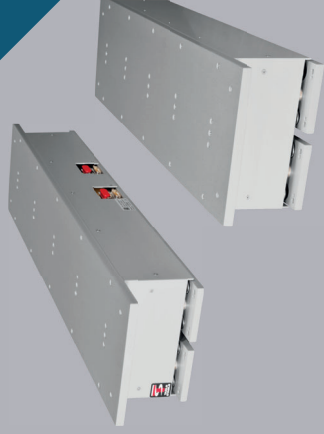


Key Applications

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



HWL Scientific Instruments GmbH

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supporting focus

active antivibration solutions

Modern technologies in the field of high-sensitive measurements, high-resolution microscopy, and high precision manufacturing have an increasing demand on effective vibration isolation systems to stop the influence of disturbing ambient vibrations (e.g. building, floor, traffic, machinery, sound, airflow).

HWL offers complete solutions to avert the environmental challenges for highest sensitive instrumentations in industry and research. Our systems overcome the drawback of classical passive systems.



TS-Series: The Table Top System



Active Vibration Isolation

AVI-Series: The Modular System



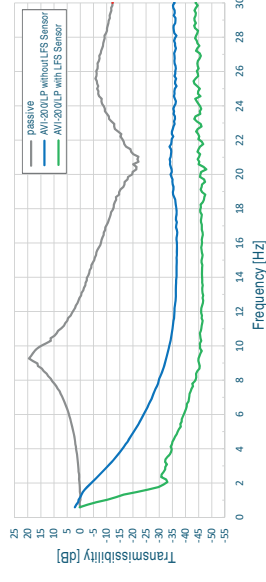
Active Vibration Isolation

Accessories



Support Frames
Rigid support frames for all TS- and AVI-Series systems

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 an existing AVI-series system.



TS-workstation
Office place with built-in active antivibration isolation



- built-in active antivibration system
- mechanically decoupled working surface
- available for all TS series tables
- table size : 1600 x 800 x 720 mm
- customized table size possible
- optional: roller container

Vibration Analyser VA-2C
Easy measurement of acceleration, velocity or displacement in three orthogonal directions, useful for identifying frequency, direction and amplitude of disturbing vibrations



Exciter Box
Turning the TS-Series and AVI-Series antivibration isolation systems into a shaker in any direction



Technical Specifications

Isolation	Dynamic: 0.7Hz - 300Hz, purely passive beyond 300Hz (TS-C30: 1.2Hz - 300Hz, mainly passive beyond 300Hz)		
Transmissibility	Above 10 Hz transmissibility <0.01 (-40dB)		
Load	TS-C30:	0 - 40 kg	
	TS-150/LP:	0 - 150 kg	
	TS-140/LP:	0 - 140 kg	
	TS-140+40/LP:	40 - 180 kg	
	TS-300L/LP:	0 - 120 kg	
	TS-300/LP:	0 - 300 kg	
Size	TS-C30:	300 x 300 x 70 mm ³	
	TS-150/LP:	400 x 450 x 75 mm ³	
	TS-140/LP:	500 x 600 x 84 mm ³	
	TS-140+40/LP:	500 x 600 x 84 mm ³	
	TS-300L/LP:	600 x 800 x 120 mm ³	
	TS-300/LP:	600 x 800 x 120 mm ³	
Table Top Material	Damped aluminium sandwich construction Optional stainless steel w or w/o tapped M6 on 25mm centres		
Electrical	Safety class 1, IP 20, Typically 10 W		

Customizable top plates available

Safety class 1, IP 20, Typically 9W (AVI-200), 18W (AVI-400), 27W (AVI-600)

