

Active Vibration Isolation Systems

TS-LT

NEW

RoHS

Catalog Code

W6508

The TS Series provides sub-hertz vibration isolation across all six degrees of freedom. The inherent stiffness of the TS system imparts excellent directional and positional stability, ensuring a stable and controlled measuring environment. With a simple 'plug and play' design, the TS Series is ideal for researchers who want to focus on their important research and not on their vibration isolation systems.



■ FEATURES

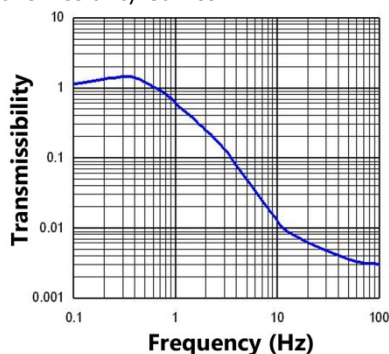
- Active Isolation from 0.7 Hz to 1,000 Hz
- Passive Isolation Beyond 1,000 Hz
- Isolates in all six degrees of freedom
- Internal feedback loop
- Plug-and-play installation
- Easy to install and simple to use

■ APPLICATIONS

- Atomic Force Microscopy
- Scanning Probe Microscopy
- High Precision Metrology
- Tribology
- Interferometry
- Profilometry

PERFORMANCE

Transmissibility Curves



The performance graph is to be considered for all TS Series tables. 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 Details

- Active Vibration Isolation from 0.7 - 1,000 Hz
- Passive Vibration Isolation from 1,000 Hz and beyond
- 90% Vibration Attenuation at 3.5 Hz
- 99% Vibration Attenuation at 10 Hz and beyond

Technical Specifications

Isolation Range	Dynamic from 0.7 - 1000 Hz; Passive: >1000 Hz in all six degrees of freedom
Transmissibility	Adobe 10 Hz transmissibility < 0.01 (-40 dB)
System Noise	Less than 20nG/yHz from 0.1 - 200Hz
Static Compliance (per module): Vertical	Approx. 12 µm/N
Horizontal	Approx. 30-40 µm/N
Safety Class	1
Power Consumption	10 W typical / 50W Maximum (70VA)
Input Voltage	115 - 230 V AC 10%, 50 - 60 Hz
Monitor Signal	A multiplexed signal for display on oscilloscope shows sensor parts with and without isolation.
Material	Aluminum, Also available with ferromagnetic steel with drilled & tapped holes.

Specifications

Part Number	TS-150	TS-140	TS-300 LT	TS-300
Price [US\$]	\$9,995.00	\$11,995.00	\$13,995.00	\$16,495.00
Dimensions [mm]	(W)400 x (D)450 x (H)79	(W)500 x (D)600 x (H)84	(W)600 x (D)800 x (H)120	
Load Capacity [kg]	150	140	120	300
Weight [kg]	18	29	53	

http://www.global-optosigma.com/en_us/