

TS.200M

THE NEW GENERATION

ACTIVE ANTIVIBRATION SOLUTIONS



SCIENTIFIC INSTRUMENTS

Frequency	1,0 – 1000 Hz
Load capacity	0 – max. 800 kg*
Dimensions	210 x 210 x 125 mm



The TS 200-M has been developed to isolate medium and larger equipment (e.g. SEM) with the same performance as achievable with our table top systems. The modular configuration of the TS 200-M allows the user to adapt the vibration isolation system perfect to his application requirements. The modules will exactly adjust themselves and balance different load distribution of the setup. The TS 200-M is small enough to set on a rigid desk top, but can easily be expanded to support a large area by adding up single isolation modules.

The basic configuration of the TS 200-M starts with three isolation modules – expandable to a maximum of eight / twelve modules for loads up to 1.600kg / 2.400 kg. Active isolation mode can be switched "ON" and "OFF" externally by a remote control.

The distribution of the load, height adjustment of each module and the actual isolation status are retrievable at any time from the control unit display.

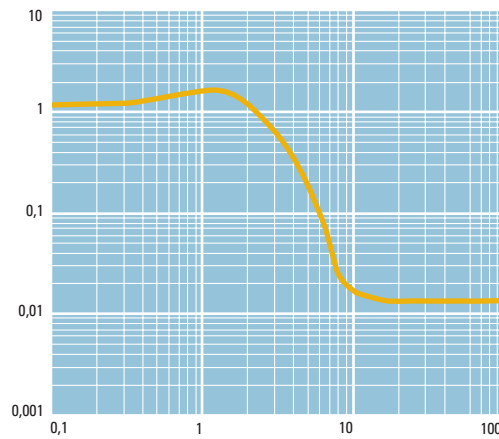
*Basic configuration with 4 units

Key Applications

- Scanning Probe Microscopy (incl. UHV applications)
- Scanning Electron Microscopy
- Scanning Near-Field Optical Microscopy
- Confocal Laser Scanning Microscopy
- Interferometry
- Metrology / Profilometry
- Nano Indentation
- Nano Lithography
- Ultrathin Film Applications
- Analytical Balances
- Bio-Physical Measurement
 - Single Molecule Investigations
 - Cell Micro Injection
 - Patch Clamp
 - IVF Techniques

The TS 200-M is combining proven technical excellence with elegant and user friendly design

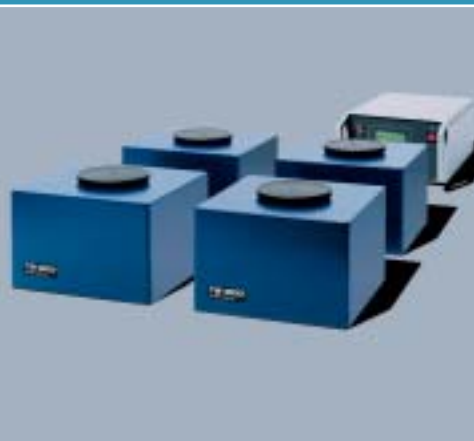
Transmissibility Curve (z)



TS 200-M

- The isolation of the TS 200-M begins at 1,0 Hz, increasing rapidly to 40 dB beyond 20 Hz
- The lack of any low frequency resonance means much better performance than with most common passive air damping approaches
- The inherent stiffness of the TS 200-M imparts excellent directional and positional stability
- The outstanding performance of the TS 200-M includes all six translational and rotational vibration modes

Technical Specifications	
Isolation	Dynamic 1.0Hz to 1kHz, purely passive beyond 1kHz
Transmissibility	See attached curve. Above 20 Hz transmissibility <0.01 (-40dB)
Maximum Load	800 kg (200 kg per single module)
Size (Single Module)	210 x 210 x 125 mm (W x D x H)
Self-Weight (Single Module)	5,5 kg
Electrical	
Safety class	1
Power Consumption	Typically 10 W, maximum 50 W (70 VA)
Input Voltage	115 - 230 V AC \pm 10%, 50 - 60 Hz
Overload	The display indicates when the load is too heavy or severely unbalanced
Normal Environmental Conditions	
Protection Class	IP 20
Temperature Range	5°C - 40°C
Relative Humidity	10 - 90 % (5 - 30°C) / 10 - 60 % (30 - 40°C)
Application	Indoor
Altitude	Up to 2000 m (6.500 ft)
Table Top (optional)	
Size	1800 x 1800 mm (W x D) max. recommended size for table top solution (optical table, bread board)



Front view



Side view



Top view

