

TS Series

Active Vibration Isolation

The next generation of active isolation technology

FEATURES

- Active Isolation from 0.7 Hz to 1,000 Hz
- Passive Isolation beyond 1,000 Hz
- Automatic load adjustment
- Plug and play installation
- LCD display of real-time vibration levels

BENEFITS OF ACTIVE ISOLATION

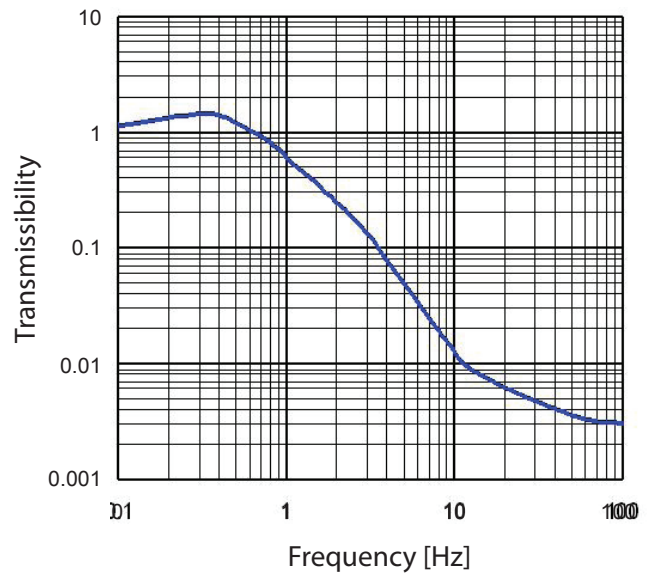
Active isolation systems sense input vibrations and dynamically damp them out.

- Isolates in all 6 degrees of freedom
- Internal feedback loop damps all mechanical resonances
- Better performance at low frequencies
- 500 times stiffer than passive systems
- No air required

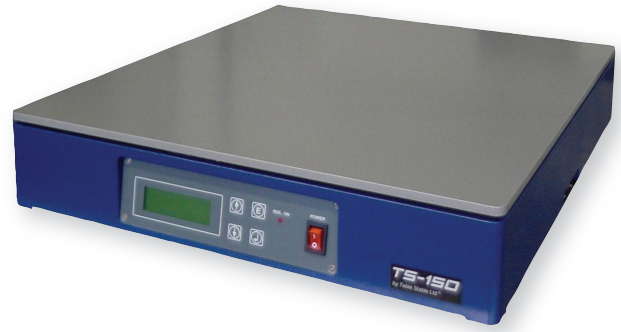
APPLICATIONS include

- SPM (AFM, STM, NSOM, etc.)
- Interferometry
- Fluorescence microscopy
- Tribology and nanoindentation
- High precision metrology
- High resolution microscopy
- Profilometry
- In-vitro fertilization

TRANSMISSIBILITY



Herzan LLC



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MODEL	DIMENSIONS	LOAD CAPACITY
TS-150	400 x 450 x 75mm 15.7 x 17.7 x 3"	150 kg 330 lbs
TS-140	500 x 600 x 85 mm 19.6 x 23.6 x 3.3"	140 kg 300 lbs
TS-300	600 x 800 x 120 mm 23.6 x 31.5 x 4.7"	300 kg 660 lbs
TS-300LT	600 x 800 x 120 mm 23.6 x 31.5 x 4.7"	120 kg 265 lbs

TECHNICAL SPECIFICATIONS

ISOLATION

Isolation	dynamic from 0.7 Hz to 1000 Hz, passive beyond 1000 Hz in all six degrees of freedom
Transmissibility	Above 10 Hz transmissibility <0.01 (-40dB)
System Noise	less than 20nG/√Hz from 0.1-200 Hz in any direction
Static Compliance	Vertical: approx 12 μm / N Horizontal: approx 30 - 40 μm / N

ELECTRICAL

Safety Class	1
Power Consumption	typically 10 W, maximum 50 W (70 VA)
Input Voltage	115-230 V AC 10%, 50-60 Hz
Monitor Signal	A multiplexed signal for display on oscilloscope shows vibration levels with and without isolation.

MOUNTING SURFACE

Material	Aluminum, Also available with ferromagnetic steel with drilled & tapped holes
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