

Solutions for the
Measuring Environment

TS-150-S Series Active Vibration Isolation



Actively damped frequency
range: **0.7 – 1000 Hz**

Load capacity: **0 - 150 kg**

Dimensions: **400 x 450 x 75 mm**

This dynamic vibration isolation system achieves, in a very small volume, better isolation than is possible with most any isolation system. This new technology provides isolation from building vibrations, and also from vibration sources placed on the tabletop. A precise automatic level adjustment mechanism allows convenient handling of different loads without any user intervention.

The TS-150 S offers ultimate performance for a wide range wide range of high resolution instruments. *e.g. SPM, interferometer, microscopy*

•Isolation begins at 0.7 Hz, increasing rapidly to 40 dB at 10Hz

•No low frequency resonance

•500 times stiffer than air tables.

•Isolation of all six possible translational and rotational modes of vibration.

HERZ

HERZ CO.,LTD.

18/F., YCS Bldg., 5-1, Sakae-Cho, Kanagawa-Ku,
Yokohama, Kanagawa 221-0052 Japan

Phone : +81 (0 in JP) 45-450-2211 Fax : +81 (0 in JP) 45-450-2221

e-mail : sales@herz-f.co.jp <http://www.herz-f.co.jp>

HERZAN

HERZAN L.L.C.

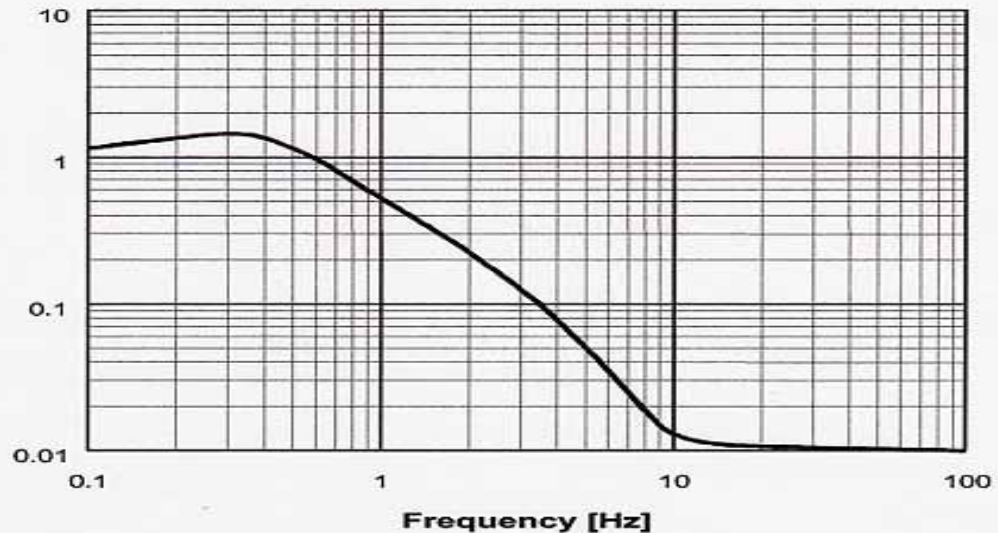
23151 Alcalde Dr. Unit B-3 Laguna Hills CA 92653 U.S.A

Phone : 949-363-2905 Fax : 949-363-2906

e-mail : sales@herzan.com <http://www.herzan.com>

Transmissibility

TS-150-S



Isolation:

dynamic 0.7 Hz to 1000 Hz, passive beyond 1000 Hz.

Transmissibility:

Above 10 Hz transmissibility < 0.01 (-40dB)

System Noise:

less than 50nG/ $\sqrt{\text{Hz}}$ from 0.1-200 Hz in any direction

Maximum Load:

150 Kg

Size:

400 x 450 x 75 mm

Weight:

18 kg

ELECTRICAL

Safety class:

1

Power Consumption:

typically 10 W, maximum 50 W (70 VA)

Input Voltage:

115-230V AC $\pm 10\%$, 50-60Hz

Monitor Signal:

A multiplexed signal for display on oscilloscope shows vibration levels with and without isolation. A signal of 1mV corresponds approximately to a velocity of 0.5 $\mu\text{m/sec}$ at the table top.

TABLE TOP

Size:

400 x 450 mm

Material:

Aluminium

Also available as standard ferromagnetic plate

TS-150 : Examples of application

