

Active Vibration Isolation System

1TS-140
1TS-140B
1TS-140B-AL



1TS-140

- The isolation of the 1TS-140 begins at 0,7 Hz, increasing rapidly to 40 dB beyond 10 Hz
- The lack of any low frequency resonance means much better performance than with common passive damping approaches
- The inherent stiffness of the 1TS-140 imparts excellent directional + positional stability
- The outstanding isolation performance of the 1TS-140 includes all six translational and rotational vibration modes

SPECIFICATIONS

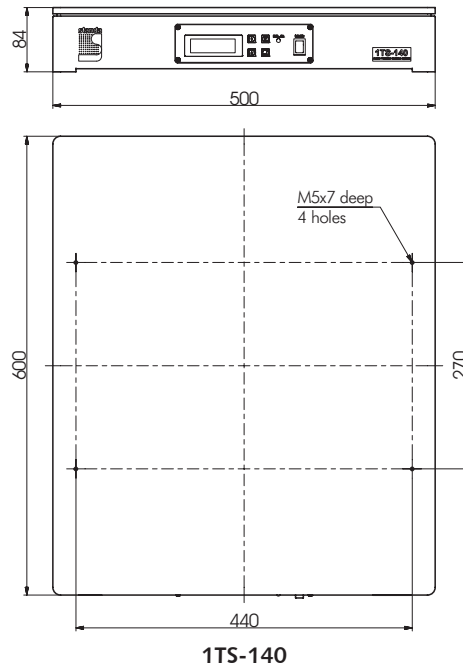
Isolation	dynamic 0.7 Hz to 200 Hz, mainly passive at higher frequencies, although for good stability the feedback is active to at least 2 KHz
Transmissibility	See attached curve. Above 10 Hz transmissibility <0.01 (-40dB)
Maximum load	140 kg
Dimensions	500x600x84 mm
Self - weight	23 kg

Electrical

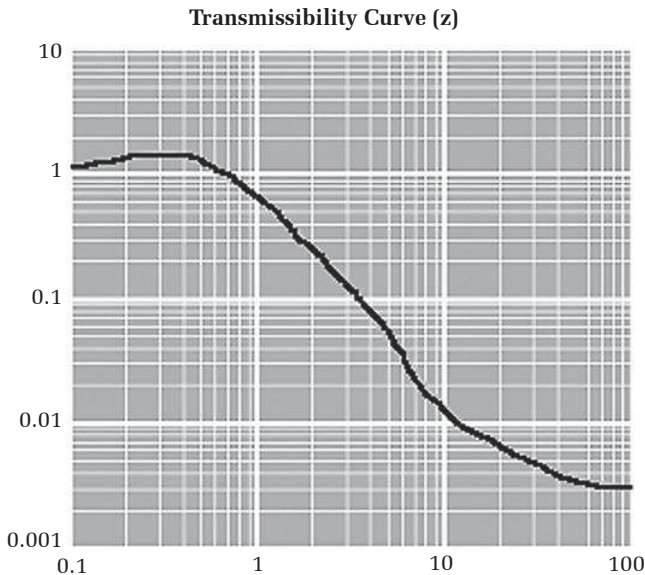
Safety class	1
Power consumption	maximum 10 W when isolating, maximum 20W during load adjustment
Input voltage	90 – 120V AC, 47 – 63 Hzz 200 – 240V AC, 47 – 63 Hzz
Fuses	2x1.6A/250V slow, located in the power socket on the rear side of the unit

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)



1TS-140



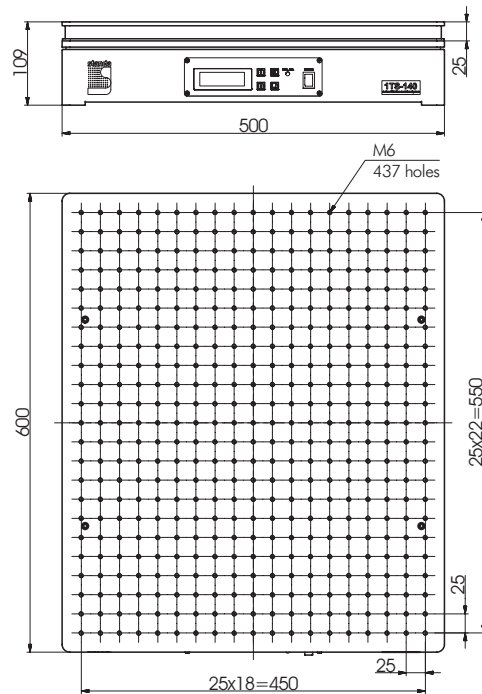
1TS-140 is compact dynamic anti-vibration system, which offers isolation against all six translational and rotational vibration modes. These moderately priced dynamic vibration isolation systems achieve in a very small volume better isolation than is possible with the biggest and most expensive passive systems. Inertial feedback using piezoelectric force motors provides not only isolation from building vibrations, but also isolation from vibration sources placed on the system itself. This means, for example, that a delicate microscope isolated by the system will remain at rest despite forces being applied via the operator's hands. The inherent stiffness of the systems, some 200 – 500 times greater than that of a 1 Hz resonance passive isolator, imparts excellent directional and positional stability.

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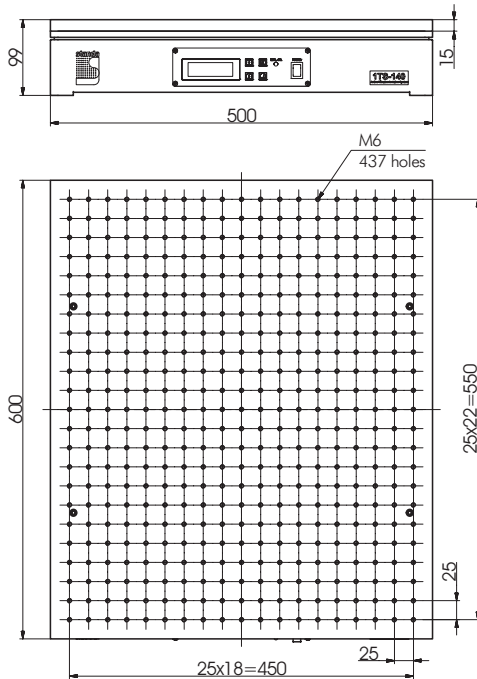
Active Vibration Isolation System
with Breadbord

1TS-140B



Active Vibration Isolation System
with Aluminium Breadbord

1TS-140B-AL



1TS-140
Example of use

ORDERING INFORMATION

- 1TS-140** – solid board without holes
- 1TS-140B** – with breadbord **1HB05-06-025-001**
- 1TS-140B-AL** – with aluminium breadbord **1B-AL-50-60-015**



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