TS.300/LP

THE TABLE TOP SYSTEM

_ow Power Technology



Frequency 0.7 - 300 Hz (active)

Load capacity 0 - 300 kg (0 - 120 kg)

Dimensions 600 x 800 x 120 mm³



This compact state-of-the-art dynamic vibration isolation table achieves better isolation performance than most other comparable vibration damping systems.

The TS-300/LP is designed as a large area supporting table top damping system. Ideally suited for high sensitive applications which require more than one instrument on a common top plate (e.g. laser + microscope). The TS-300/LP comes in two different versions: TS-300-LT/LP and TS-300/LP. The light version TS-300-LT/LP is well suited to carry loads up to 120 kg and the TS-300/LP up to 300 kg. The TS-300-LT/LP should be used with a stable support frame (available on request).

Available also with drilled top plates with holes in metric and non-metric grid.

The isolation of the TS-Series begins at 0.7Hz, increasing rapidly to 40db beyond 10Hz. 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 systems imparts excellent directional and positional stability. The outstanding performance of the TS-Series includes all six translational and rotational vibration modes.

The precise automatic height adjustment mechanism stabilizes the top plate at an optimized working level even after major changes of load. A remote control allows the isolation to be switched "ON" and "OFF" externally.

Key Applications

- Laser Scanning Microscopy
- Scanning Probe Microscopy (AFM,STM)
- Scanning Near-Field Optical Microscopy (SNOM)
- Interferometry
- Metrology / Profilometry
- Micro & Nano Hardness Tester
- Nano Indentation
- Nano Lithography
- Ultrathin Film Applications
- Analytical Balances
- Bio-Physical Measurements
- Cryogenics
- Quantum Technology
 Single Molecule Investigations
 Cell Micro Injection
 Patch Clamp

IVF Techniques

and many more!

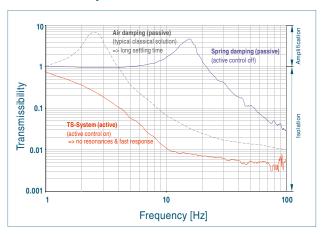
TS.**300**/LP

The TS-300/LP is combining proven technical excellence with elegant and user friendly design

Advantages active vs. passive

- small size
- no air required
- no set-up time
- lack of any low frequency resonance
- inherently stiff (500x greater than that of a 1Hz passive isolator)
- rapid recovery time from shock (<10ms)
- includes all six translational and rotational vibration modes
- superior to any passive system

Transmissibility Curve



Technical Specifications	
Isolation	Dynamic 0.7 Hz to 300 Hz, purely passive beyond 300Hz
Transmissibility	See transmission curve above Above 10 Hz transmissibility <0.01 (-40dB)
Maximum Load	0 - 300 kg (Also available as TS-300LT/LP for loads up to 120 kg)
Size	600 x 800 x 120 mm ³
Weight	53.0 kg
Electrical	Safety class 1
Power consumption	Typically 10 W, 20W during load adjustment
Input voltage	115-230 V AC ±10%, 50-60 Hz
Normal environmental conditions	Protection class IP20
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 (6500 ft)
Table Top	
Size	600 x 800 mm ²
Material	Damped aluminium sandwich construction 16mm thick Also available with tapped M6 on 25mm, stainless steel or customised



TS-Workstation: built-in active antivibration system

