

28000 Vibration Test System

The Lansmont Model 28000 Vibration Test System is the largest force system in our line of vibration equipment. This massive actuator, when combined with a high-performance servo-valve, high-flow hydraulic power supply and a 50 in. (127 cm) square Magnesium table, is capable of extremely high performance levels. Originally developed to accommodate payloads in excess of 1,000 lbs (454 kg) and perform to 500 Hz, this is the system to consider if your vibration testing requirements are non-standard and high performance. This system, when configured with a 36 in. (91.4 cm) Magnesium table, has demonstrated sinusoidal vibration sweeps to 1,000 Hz. The 28000 features a rugged hydraulic actuator designed specifically for high-performance testing profiles, a reliable hydraulic power supply, and Lansmont's extremely popular TouchTest vibration control system. Let Lansmont help you configure a Model 28000 vibration test system that will meet your demands today!



28000 Features:

- Extremely versatile, the 28000 can be configured with table sizes from 36 in. square (91.4 cm) to 60 in. square (152 cm). It has a piston stroke of 2.5 in. (6.4 cm) and can handle payloads up to 1000 lbs (454 kg).
- Windows™ based vibration control system, including Lansmont's extremely powerful TouchTest Vibration software.
- Random vibration, swept-sine vibration, resonance search and dwell, repetitive bounce and powerful user-defined profiles all included.
- Fully integrated pump and servo controls, all designed and manufactured by the Lansmont Corporation.
- Field-to-Lab® ready. Simple transfer of data from your Lansmont SAVER™ to your vibration controller for real-world random vibration tests.
- Full range of applications training programs available.
- Worldwide Customer Service department.



Vibration Testing Benefits:

- Identify design and production defects.
- Increase product ruggedness.
- Reduce packaging costs.
- Eliminate shipping damage.

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TECHNICAL SPECIFICATIONS

PHYSICAL	
Table Sizes	36 in. (91 cm) – 50 in. (127 cm) sq.
Seismic Base Options	8,000 lbs. (3,629 kg) – 12,000 lbs. (5,443 kg)
PERFORMANCE	
Load Capacity, Maximum	2,500 lbs. (1,134 kg)
Load Capacity, Maximum (with optional 1-G Supports)	N/A
Maximum Stroke (Peak-To-Peak)	2.5 in. (6.4 cm)
Frequency Range	3–500 (1000 Hz with 36 In Sq magnesium table)
Actuator Stall Force at 3,000 psi (207 bar)	29,400 lbf. (131 kN)
HYDRAULIC POWER SUPPLY	
Voltage	200–460 VAC
Frequency	50–60 Hz
Phase	Three Phase
HPS Motor Rating	100 HP, Standard
POWER REQUIREMENTS, CONTROL	
Voltage	100–220 VAC
Frequency	50–60 Hz
Phase	Single Phase
ENVIRONMENTAL	
Cooling Water	60 Degrees F at 12 Gal/Min. for Models 15000–28000 (15.5 Degrees C at 45.4 L/Min. for Models 15000–28000)
Plant Air (*)	N/A

TouchTest Vibration Controls:

- Available in either Bench-Top or Full “System Station” Configurations. Both Options have identical functionality; the System Station offers a convenient, stylish enclosure for controls.
- Extremely powerful, Windows™ based software.
- Reliable, fully-integrated pump/servo controls.
- Intuitive interface and full-featured help files make machine operation simple.
- Quick, easy data upload from Lansmont field data recorders makes Field-to-Lab® simulations a snap.
- Easy sharing of data via e-mail, internet, and export to other popular programs such as Word™ and Excel™.

