

1800 Vibration Test System

Lansmont's Model 1800 Vibration Test System was designed to meet the demands of a wide range of testing applications. From small products to pallet loads, the 1800 can be configured to handle them all. The 1800 features a rugged hydraulic actuator designed specifically for today's testing profiles, a reliable hydraulic power supply, and Lansmont's extremely popular TouchTest vibration control system. Let Lansmont help you configure a Model 1800 vibration test system that will meet your demands today!

1800 Features:

- Extremely versatile, the 1800 can be configured with table sizes from 25.6 in. (65 cm) to 60 in. square (152 cm) and handle payloads up to 2,800 lbs. (1,270 kg) with 1-G supports.
- 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	33.5 in. (85 cm) – 60 in. (152 cm) sq.
Seismic Base Options	5,000 lbs. (2,268 kg) – 8,000 lbs. (3,629 kg)
PERFORMANCE	
Load Capacity, Maximum	1,300 lbs. (590 kg)
Load Capacity, Maximum (with optional 1-G Supports)	2,400 lbs.(1,089 kg) *(See Plant Air)
Maximum Stroke (Peak-To-Peak)	2.5 In. (6.4 cm)
Frequency Range	3 – 300 Hz
Actuator Stall Force at 3,000 psi (207 bar)	4,566 lbs. (20 kN)
HYDRAULIC POWER SUPPLY	
Voltage	200 – 460 VAC
Frequency	50 – 60 Hz
Phase	Three Phase
HPS Motor Rating	20 HP, Standard
POWER REQUIREMENTS, CONTROL	
Voltage	100 – 240 VAC
Frequency	50 – 60 Hz
Phase	Single Phase
ENVIRONMENTAL	
Cooling Water	60 Degrees at 6 Gal/Min for Models 1800–5 – 10000 (15.5 Degrees C at 22.7 L/Min, for Models 1800–5 – 10000)
Plant Air (*)	100 psi (6.9 bar) for all Vibration Machines utilizing the 1-G Support option.

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™.

