

Models HSX30M to HSX60M Shock Test Systems

eXtreme Speed Series

Lansmont's Models HSX30M to HSX60M eXtreme Speed Series Shock Test Systems are designed to deliver top-of-the-line performance (acceleration, duration, and velocity change) for mid-sized tables and specimens as compared to our Standard and Performance Series Test Systems. As with our Performance Series, Lansmont continues to offer flexibility in selectable test system table size.

HSX30M - HSX60M Features:

- Extremely high velocity changes for mid-sized tables and specimens ranging from 50 ft/sec to 100 ft/sec (15.2 m/sec to 30.5 m/sec).
- Very high accelerations: up to 7,500 g.
- Very short duration pulses down to 0.5 milliseconds.
- Selectable table size ranging between 11.8 inches x 11.8 inches (30 cm x 30 cm) to 23.6 inches by 23.6 inches (60 cm x 60 cm).
- Two-sided safety enclosure protects device under test area.
- Superb pulse quality at these high speeds. Meets and exceeds the pulse quality standards of ASTM, ISTA, MIL-STD, etc.
- 3-point floating seismic base for impact energy isolation, precise leveling and better control of pulse quality.
- Lansmont's TouchTest™ Shock II Controls incorporated with Lansmont's Test Partner Data Acquisition System provide the most powerful shock system controller available!
- Global Customer Support offers professional services including repair, maintenance, calibration and training.

Lansmont's HSX30M - HSX60M Series Shock Test Systems deliver top-of-the-line performance for mid-sized tables and specimens highlighted by nearly twice (2 times) the velocity change of its nearest standard shock machine. While our HSX30M - HSX60M Series Test Systems can generate over ten (10) times the impact energy of our standard shock series, superior design, engineering and manufacturing guarantee Lansmont traditional industry-leading quality and control over the resulting pulse waveforms.



17 Mandeville Court, Monterey, CA 93940
1-800-LANSMONT • www.lansmont.com

Model HSX30M- HSX60M

Shock Test Systems

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TECHNICAL SPECIFICATIONS

PHYSICAL

| | |
|-------------------------|--|
| Maximum Specimen Weight | 2,000 lbs (907 kg) |
| Table Mounting Surface | From: 11.8 in. x 11.8 in. (30 cm x 30 cm) To: 23.6 in. x 23.6 in. (60 cm x 60 cm) |

PERFORMANCE

| | |
|--|---|
| Maximum Acceleration (bare table) | 1500 g – 7500 g |
| Shock Pulse Duration Range (bare table) | 0.5 msec – 30 msec |
| Velocity Change (bare table) | $\Delta V_{max} = 50 \text{ ft/sec} - 100 \text{ ft/sec} (15.2 \text{ m/sec} - 30.5 \text{ m/sec})$ |
| Note: Maximum Acceleration, Shock Pulse Duration and Velocity Change vary considerably depending on the table weight, specimen weight and programming material. The values listed are to be used as general guidelines only. | |

MACHINE SIZE

| | |
|---|---|
| Height Range | 176 in. – 195 in. (447 cm – 495 cm) |
| Width (Left to Right) | 60 in. (152.4 cm) |
| Depth (Front to Back) | 55 in. (139.7 cm) |
| Weight* - machine weight - controls/electronics | 11,500 lbs – 16,500 lbs (5216 kg – 7484 kg) 300 lbs (136 kg) |

UTILITIES

| | |
|---|--|
| Minimum Service Requirements (Electrical) | |
| Controls: (Voltage / Frequency / Current): | 110-120V/1Ø/50-60 Hz: 3 amp minimum 220-240V/1Ø/50-60 Hz: 3 amp minimum |
| Hoist: (Voltage / Frequency / Current): | 200-240V/3Ø/50-60 Hz: 20 amp minimum 380-480V/3Ø/50-60 Hz: 10 amp minimum |
| Machine Winch: (Voltage / Frequency / Current): | 100-120V/1Ø/50-60 Hz: 20 amp minimum |
| High Pressure Requirements (Brakes/Seismic Base) | Nitrogen regulated to 1500-2200 psi (103-155 bar) |
| SHIPPING WEIGHT - machine* - controls & electronics | 13,500 lbs – 18,500 lbs (6124 kg – 8392 kg) 500 lbs (227 kg) |

* Weight varies with table size and machine height.

TouchTest™ Shock II Controls:

- Available in Bench-Top Controls.
- Fully integrated machine setup and control.
- Touch-screen user interface.
- New shock pulse predictor feature makes setting up shock pulses easier than ever.
- Automatically communicates with Lansmont's Test Partner Data Acquisition and Analysis System for the most advanced shock analysis ever.

