

## Models HSX15 to HSX30 Shock Test Systems

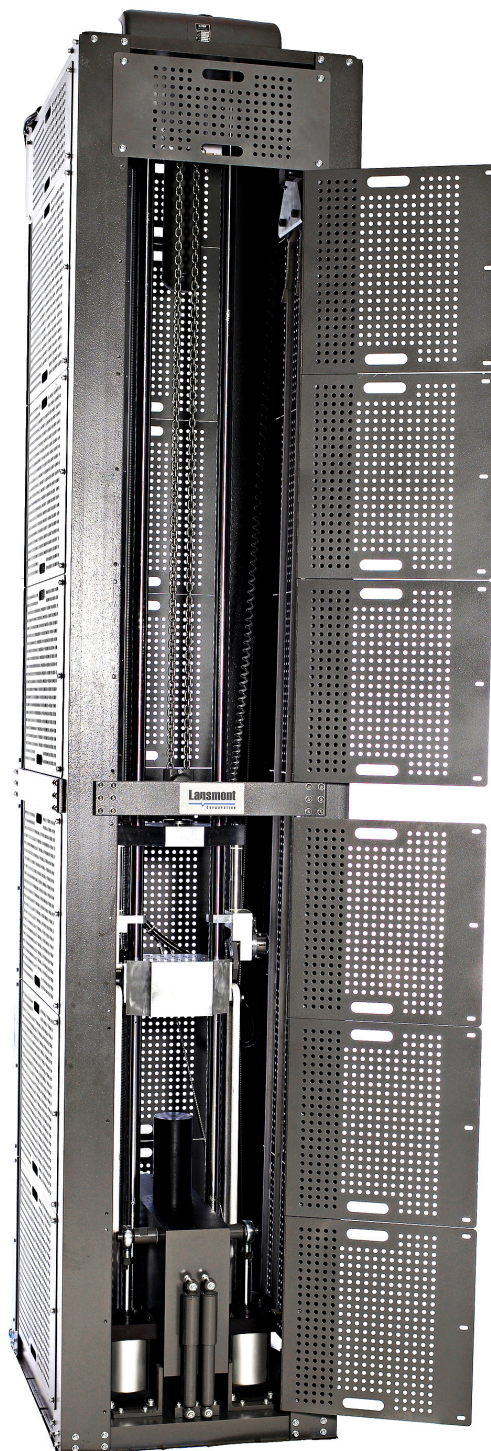
### eXtreme Speed Series

Lansmont's Models HSX15 to HSX30 High Speed eXtreme Shock Test Systems are designed to deliver top-of-the-line performance (acceleration, duration, and velocity change) as compared to our Standard, Performance and High Speed Series Test Systems. As with our Performance and High Speed Series, Lansmont continues to offer flexibility in selectable test system table size.

### HSX15 - HSX30 Features:

- Extremely high velocity changes: ranging from 75 ft/sec to 150 ft/sec (22.9 m/sec to 45.7 m/sec).
- Very high accelerations: up to 10,000 g.
- Very short duration pulses down to 0.2 milliseconds.
- Selectable table depth (front to back), ranging between 4 inches and 16 inches (10.1 cm and 40.6 cm).
- Selectable table width (side to side), ranging between 5.9 inches and 11.8 inches (15 cm and 30 cm).
- Three-sided safety enclosure surrounding 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 HSX15 to HSX30 Shock Test Systems deliver top-of-the-line performance highlighted by nearly five (5) times the velocity change of its nearest standard shock machine. While our HSX15 to HSX30 test systems can generate over twenty-five (25) times the impact energy of our Standard Series, superior design, engineering and manufacturing guarantee Lansmont traditional industry-leading quality and control over the resulting pulse waveforms.



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# Models HSX15 - HSX30

## Shock Test Systems

eXtreme Speed Series

## TECHNICAL SPECIFICATIONS

PHYSICAL	
Maximum Specimen Weight	250 lbs. (113 kg)
Table Mounting Surface	
Side to Side (between guide rods)	5.9 in. - 10.2 in. (15 cm – 30 cm)
Front to Back	4.0 in. – 16 in. (10.1 cm – 40.6 cm)

PERFORMANCE	
Maximum Acceleration (bare table)	10,000 g (Half-sine)
Shock Pulse Duration Range (bare table)	0.2 msec – 11 msec*
Velocity Change Range (bare table)	$\Delta V$ max = 75 - 150 ft/sec (22.9 to 45.7 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 guidelines only.

MACHINE SIZE	
Height Range	116 in. - 176 in. (295 cm - 447 cm)
Side to Side	33.9 in. - 38.2 in. (86.1 cm - 97.1 cm)
Front to Back	53.7 in. (136.4 cm)
Weight	3,500 lbs. - 5,500 lbs. (1589 kg - 2495 kg) **

UTILITIES	
Minimum Service Requirements (Electrical)	
Controls: (Voltage / Frequency / Current)	100 - 120 VAC/1Ø/50 - 60 Hz: 1 amp minimum 200 - 240 VAC/1Ø/50 - 60 Hz: 1 amp minimum
Hoist: (Voltage / Frequency / Current)	200 - 240 VAC/3Ø/50 - 60 Hz: 10 amp minimum 380 - 480 VAC/3Ø/50 - 60 Hz: 5 amp minimum
Machine Winch: (Voltage / Frequency / Current)	100 - 120 VAC/1Ø/50 - 60 Hz: 30 amp
Plant Air - Brakes - Floating Seismic Base	Plant air or nitrogen regulated to 90 psi (6.2 bar) Plant air or nitrogen regulated to 60 psi (4.1 bar)

SHIPPING WEIGHT	4,500 lbs. – 6,500 lbs (2041 kg – 2949 kg)**
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\* Longer durations possible; contact Lansmont.

\*\* Varies with table width 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.

