

Models P65/81L, P95/115L and P122L Shock Test Systems

Performance Series

Lansmont's Models P65/81L, P95/115L and P122L Performance Series Test Systems are designed to deliver increased performance (acceleration, duration, and velocity change) as compared to our Standard Series test systems and larger payloads up to 2,500 lbs. (1134 kg). As with our standard large shock series, Lansmont continues to offer flexibility in selectable test system table size.

P65-122L Features:

- Maximum velocity change can range from 20 ft/sec to 50 ft/sec (6.1 m/sec to 15.2 m/sec), dependent upon purchased machine configuration.
- Accelerations: up to 1000 g.
- Short duration pulses down to 2.0 milliseconds.
- Selectable table depth (front to back) up to 48 inches (122 cm).
- Selectable table width (side to side) up to 48 inches (122 cm).
- Superior 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 P65-122L Shock Test Systems deliver superior performance highlighted by twice the velocity change of its nearest standard shock machine. While our P65-122L Test Systems can generate over four (4) 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.



17 Mandeville Court, Monterey, CA 93940

1-800-LANSMONT • www.lansmont.com

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TECHNICAL SPECIFICATIONS

	P65/81L	P95/115L	P122L
PHYSICAL			
Maximum Specimen Weight -Free Fall -Accelerated Fall	1,500 lbs. (680 kg) 500 lbs. (227 kg)	2,500 lbs. (1134 kg) 1,000 lbs. (454 kg)	2,500 lbs. (1134 kg) 1,000 lbs. (454 kg)
Table Mounting Surface			
Side to Side (between guide rods)	25.6 in. (65 cm)	37.4 in. (95 cm)	48 in. (122 cm)
Front to Back	31.9 in. (81 cm)	45.3 in. (115 cm)	48 in. (122 cm)

PERFORMANCE	
Maximum Acceleration (bare table)	1000 g (Half-sine)
Pulse Duration Range (bare table)	2 - 35 msec (Half-sine) 10 - 70 msec (Trapezoidal) 0.05 msec min. (Half-sine, Dual-Mass Shock Amplifier)
Maximum Velocity Change (bare table) - Free Fall - Accelerated	Can range from: 20-25 ft/sec (6.1-7.6 m/sec) standard (Half-sine) 25-50 ft/sec (7.6-15.2 m/sec) standard (Half-sine) ** dependent upon purchased machine configuration

* 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	128 in. – 182 in. (325 cm – 462 cm)		
Side to Side	64 in. (163 cm)	79 in. (201 cm)	89 in. (226 cm)
Front to Back	56 in. (142 cm)		
Weight	7,000 lbs. (3175 kg)	10,000 lbs. (4536 kg)	13,000 lbs. (5897 kg)

UTILITIES	
Minimum Service Requirement (Electrical)	
Controls (Voltage / Frequency / Current):	100-120VAC/1Ø/50-60 Hz: 3 amp minimum 200-240VAC/1Ø/50-60 Hz: 3 amp minimum
Dual Hoist ½ ton cap: (Voltage / Frequency / Current):	200-240VAC/3Ø/50-60 Hz: 5 amp minimum (standard) 380-480VAC/3Ø/50-60 Hz: 3 amp minimum (standard) 110-120VAC/1Ø/50-60 Hz: 15 amp minimum (optional) 220-240VAC/1Ø/50-60 Hz: 10 amp minimum (optional)
Dual Hoist 1 ton cap: (Voltage / Frequency / Current):	200-240VAC/3Ø/50-60 Hz: 8 amp minimum (standard) 380-480VAC/3Ø/50-60 Hz: 4 amp minimum (standard)
Dual Hoist 2 ton cap: 200-240VAC/3Ø/50-60 Hz: (Voltage / Frequency / Current):	8 amp minimum (standard) 380-480VAC/3Ø/50-60 Hz: 4 amp minimum (standard)
Nitrogen - Brakes - Floating Seismic Base:	1,000 – 2,200 psi (68 – 150 bar) 400 – 500 psi (27 – 34 bar)

SHIPPING WEIGHT	8,000 lbs.(3629 kg)	11,000 lbs. (4990 kg)	14,000 lbs. (6350 kg)
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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.

