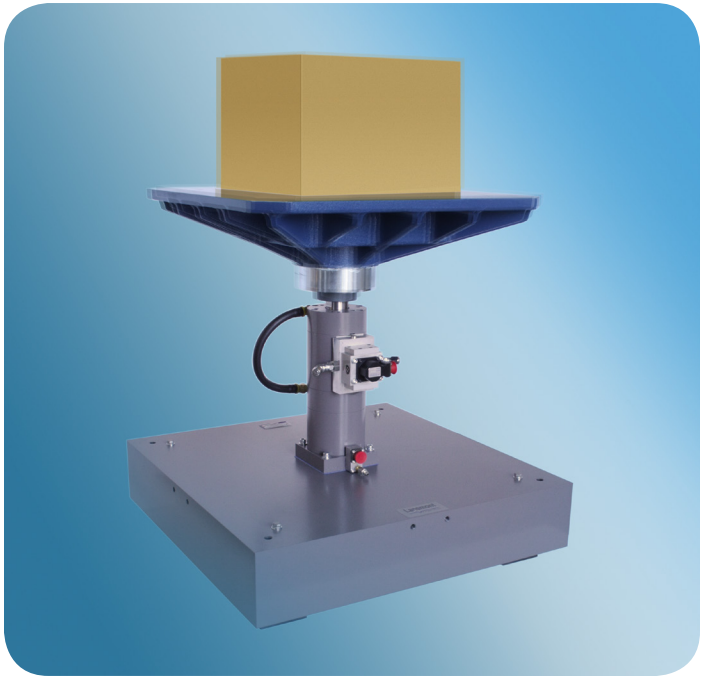
1000 Vibration Tester

Lansmont Field-to-Lab®



The Model 1000 Vibration Test System is designed to test small and lightweight objects and can perform a wide range of testing specifications. Both sinusoidal vibration tests and random vibration tests are possible for product and package testing. The Model 1000 performs testing per ASTM, ISTA, ISO and other common industry test specifications.

For testing small products or packages, the Model 1000 might be the vibration system best suited to your needs. Each vibration system features a table sized to the application, a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	Standard Performance	High Performance
Frequency Range	1 – 300 Hz.	1 – 500 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4 in. (10.2 cm)	2.5 in. (6.4 cm) 4 in. (10.2 cm)
Actuator Stall Force (at 3000 psi (207 bar))	1225 lbs. (5.4 kN)	1225 lbs. (5.4 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	816 lbs. (3.6kN)	816 lbs. (3.6 kN)

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2.9.16

1000
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	15.8 in. (40 cm) square 33.5 in. (85 cm) square	25.6 in. (65 cm) square
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts 15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

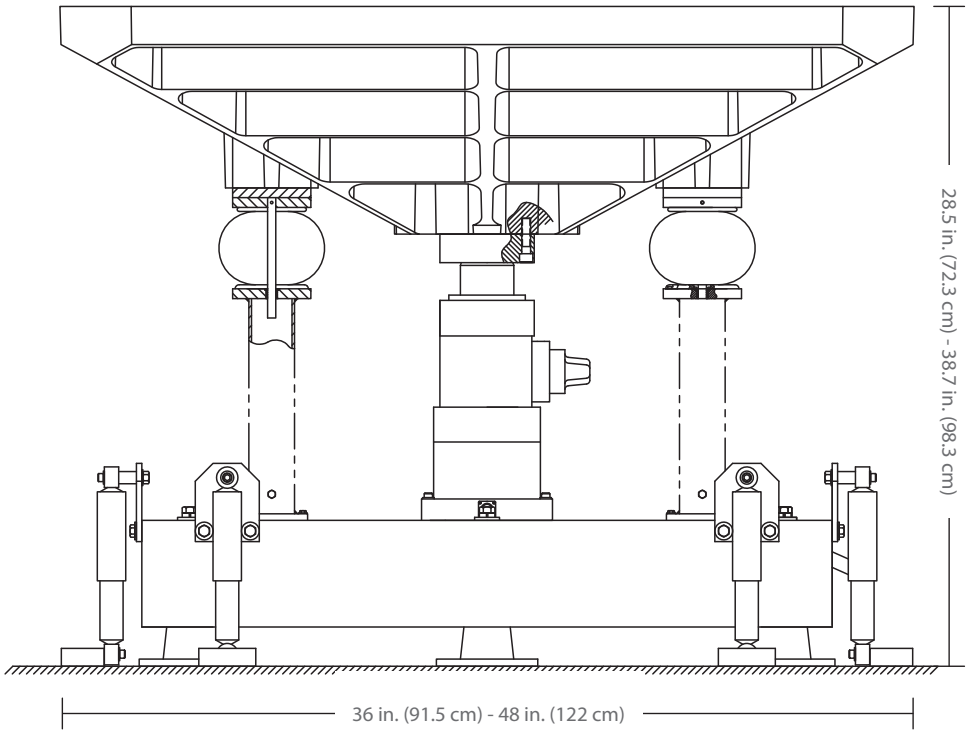
	System	**Controls**
Voltage	115 – 230 VAC, 230 – 460 VAC	100 – 230 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Single (115 – 230 VAC) Three (230 – 460 VAC)	Single Phase

FACILITY REQUIREMENTS

Cooling Water	The Model 1000 HPS has a built-in cooling fan and does not require cooling water.
Plant Air	The Model 1000 does not require plant air.

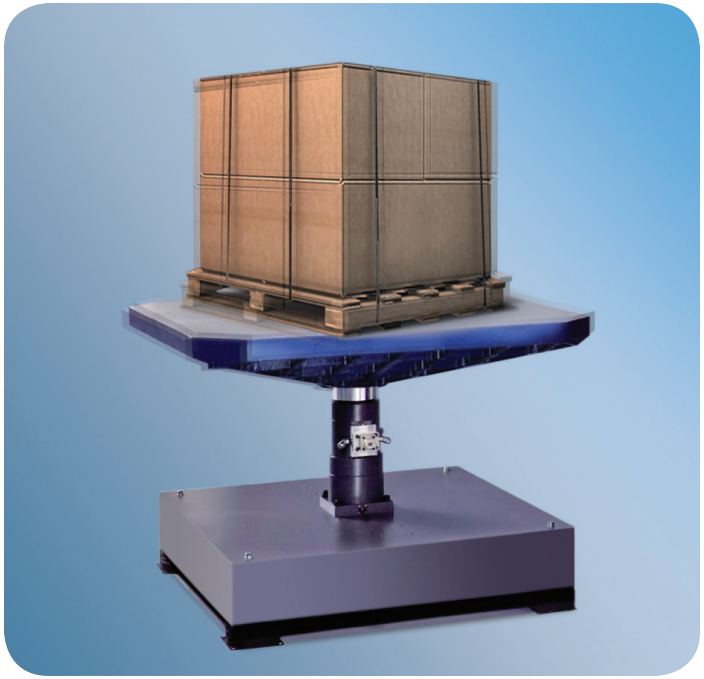
SYSTEM DRAWING

SIDE VIEW



1800
Vibration Tester

Lansmont Field-to-Lab®



The Model 1800 Vibration Test System will perform a wide range of testing applications. The system runs resonance search and fixed-frequency dwell tests for product evaluation. Additionally, the 1800 is used for distribution simulation, referencing ASTM, ISTA, ISO and other common industry test specifications, as well as test profiles created from SAVER™ environmental data.

For testing small products to light pallet loads, Lansmont will configure a Model 1800 that will meet your needs. Each vibration system features a table sized to the application, a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	Standard Performance	High Performance
Frequency Range	1 – 300 Hz.	1 – 500 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4 in. (10.2 cm) 6 in. (15.2 cm)	2.5 in. (6.4 cm) 4 in. (10.2 cm)
Actuator Stall Force (at 3000 psi (207 bar))	4566 lbs. (20.3 kN)	4566 lbs. (20.3 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	3044 lbs. (13.5 kN)	3044 lbs. (13.5 kN)

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10.18.18

1800
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	25.6 in. (65 cm) square	33.5 in. (85 cm) square
	48 in. (122 cm) square	60 in. (152 cm) square
	72 in. (183 cm) square	
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts	
	15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

	System	Controls
Voltage	200 – 460 VAC	100 – 240 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Three Phase	Single Phase

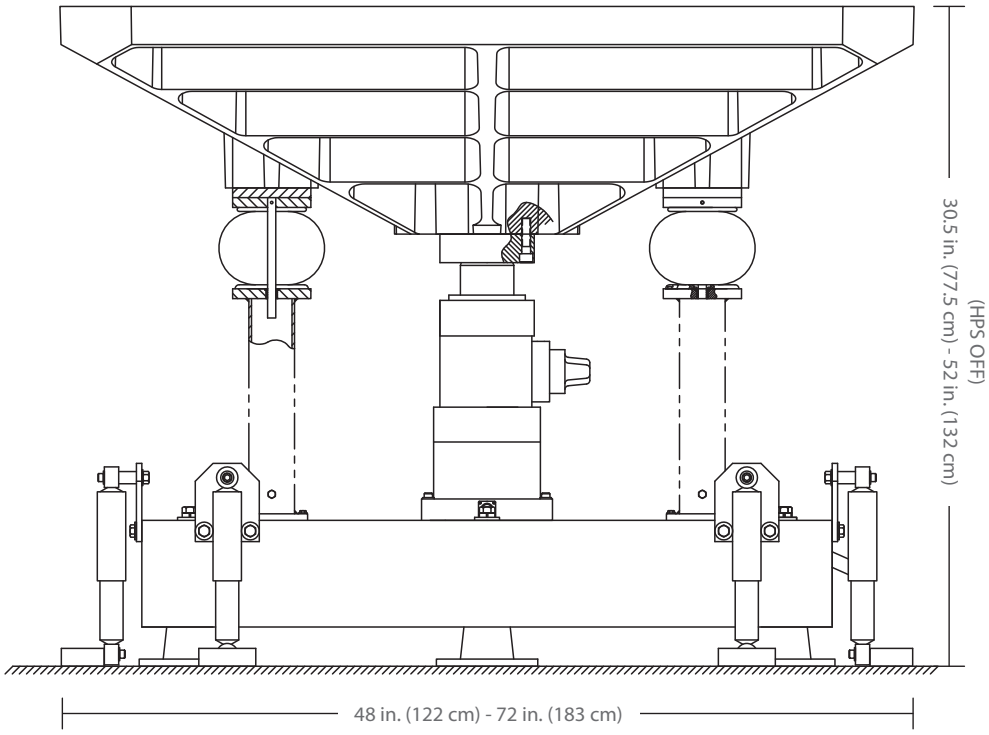
FACILITY REQUIREMENTS

Cooling Water	6 gpm at 60°F (15.5°C at 23 L/min.)
Plant Air	80 psi (552 kPa), 1 scfm

For 1-G Supports (optional)

SYSTEM DRAWING

SIDE VIEW



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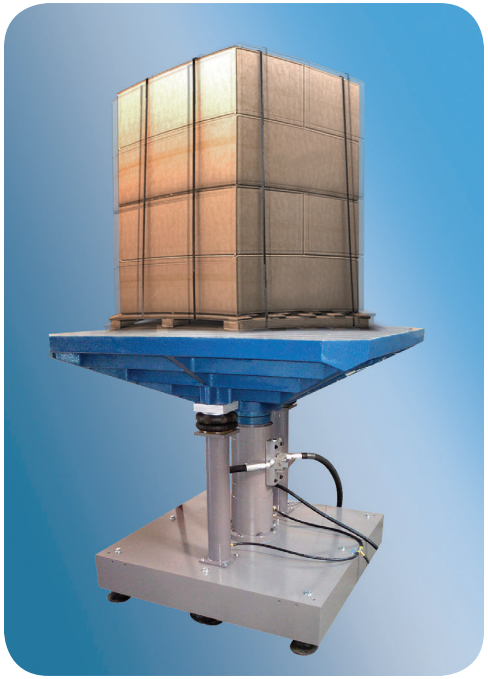
6200
Vibration Tester

Lansmont Field-to-Lab®



The Model 6200 Vibration Test System has a longer stroke actuator which makes the system design more versatile for performing low frequency, high energy vibration test profiles. The actuator force and stroke capabilities make the Model 6200 the ideal vibration system for Field-to-Lab® test protocols. The Model 6200 is also used to perform testing per ASTM, ISTA, ISO and other common industry test specifications.

For testing products, individual packages and unitized loads, Lansmont will configure a Model 6200 that will meet your needs. Each vibration system features a table sized to the application, a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	Standard Performance	High Performance
Frequency Range	1 – 300 Hz.	1 – 500 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4 in. (10.2 cm) 6 in. (15.2 cm)	2.5 in. (6.4 cm) 4 in. (10.2 cm)
Actuator Stall Force (at 3000 psi (207 bar))	7404 lbs. (32.9 kN)	7404 lbs. (32.9 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	4936 lbs. (21.9 kN)	4936 lbs. (21.9 kN)

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6200
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	33.5 in. (85 cm) square	36 in. (91 cm) square
	48 in. (122 cm) square	60 in. (152 cm) square
	72 in. (183 cm) square	
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts	
	15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

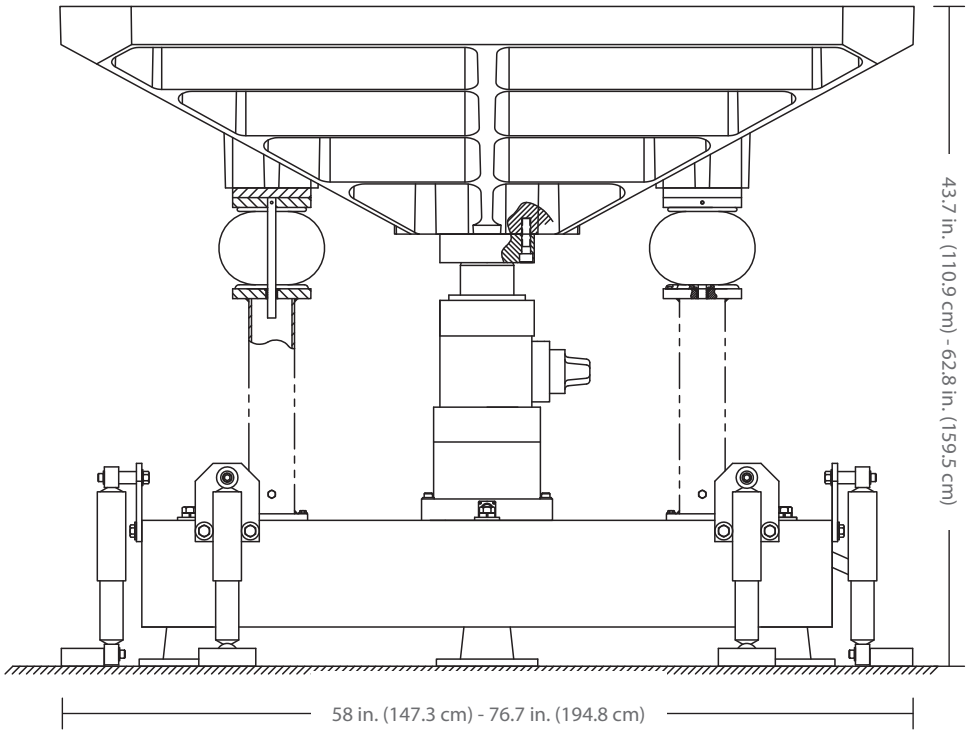
	System	Controls
Voltage	200 – 460 VAC	100 – 240 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Three Phase	Single Phase

FACILITY REQUIREMENTS

Cooling Water	Standard HPS – 6 gpm at 60°F (23 L/min. at 15.5°C)
	High Performance HPS – 17 gpm at 60°F (64 L/min. at 15.5°C)
Plant Air	80 psi (552 kPa), 1 scfm
For 1-G Supports (optional)	

SYSTEM DRAWING

SIDE VIEW



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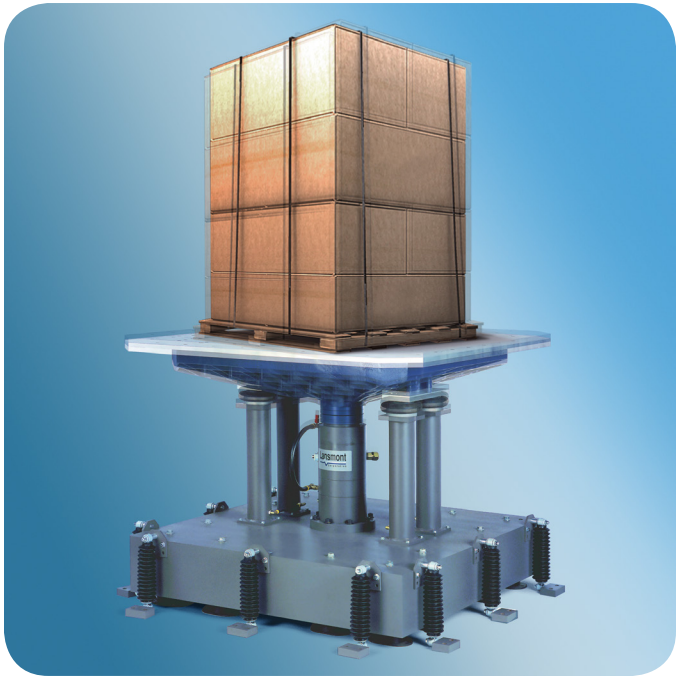
7000
Vibration Tester

Lansmont Field-to-Lab®



The Model 7000 Vibration Test System has similar performance to the Model 1800 with the advantage of being able to accommodate heavier payloads. The system runs resonance search and fixed-frequency dwell tests for product evaluation and is also used for distribution simulation per ASTM, ISTA, ISO and other common industry test specifications. The system will also run test profiles created from SAVER™ environmental data.

For testing heavier test items or unitized loads, the Model 7000 might be the best choice for to satisfy your performance and payload requirements. Each vibration system features a table sized to the application, a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	
Frequency Range	1 – 300 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4.0 in. (10.2 cm) 6.0 in. (15.2 cm)
Actuator Stall force (at 3000 psi (207 bar))	9171 lbs. (41 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	6114 lbs. (27.2 kN)

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7000
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	48 in. (122 cm) square	60 in. (152 cm) square
	72 in. (183 cm) square	
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts	
	15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

	System	**Controls**
Voltage	200 – 460 VAC	100 – 240 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Three Phase	Single Phase

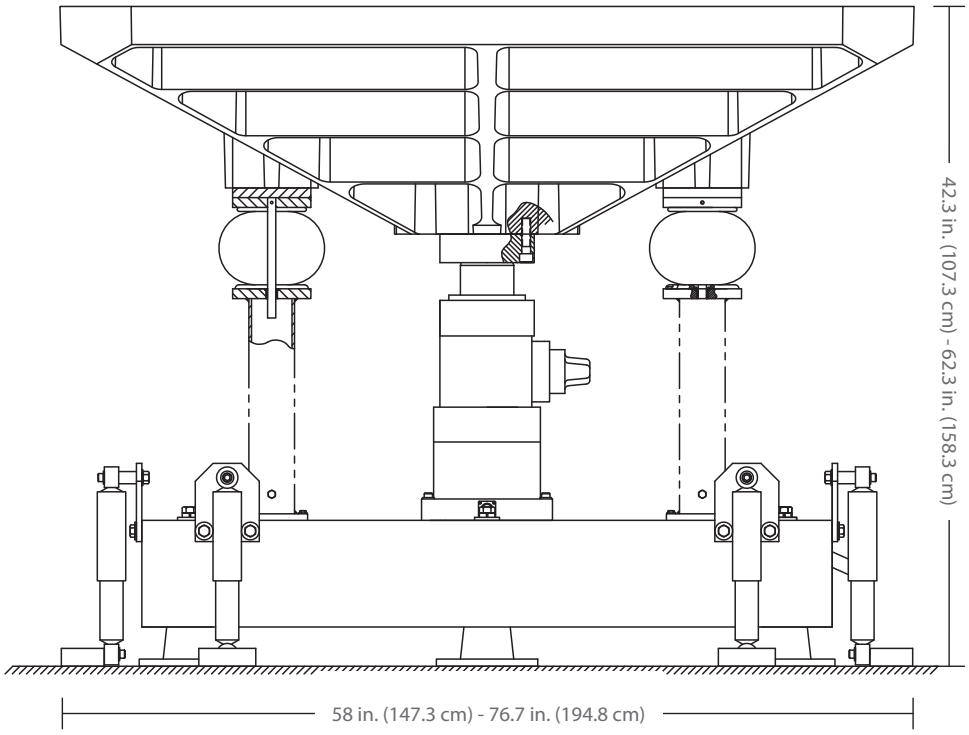
FACILITY REQUIREMENTS

Cooling Water	Standard HPS – 6 gpm at 60°F (23 L/min. at 15.5°C)
Plant Air	80 psi (552 kPa), 1 scfm

For 1-G Supports (optional)

SYSTEM DRAWING

SIDE VIEW



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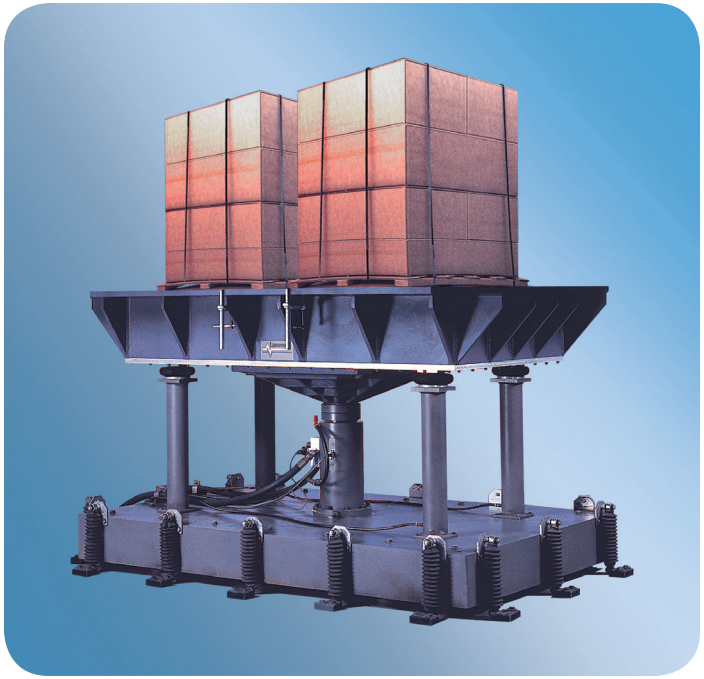
10000
Vibration Tester

Lansmont Field-to-Lab®



The Model 10000 Vibration Test System is designed for testing large, heavy payloads. The actuator force and large table options make the Model 10000 the ideal vibration system for testing unit loads and large crated products. The Model 10000 performs testing per ASTM, ISTA, ISO and other common industry test specifications. The system will also run test profiles created from SAVER™ environmental data.

The Model 10000 has several table size choices to best cater to the intended testing application. In addition to the vibration table, each vibration system includes a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	
Frequency Range	1 – 300 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4.0 in. (10.2 cm) 6.0 in. (15.2 cm)
Actuator Stall Force (at 3000 psi (207 bar))	12,370 lbs. (55 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	8247 lbs. (36.7 kN)

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10000
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	48 in. (122 cm) square	60 in. (152 cm) square
	72 in. (183 cm) square	60 x 98 in. (152 x 249 cm)
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts	
	15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

	System	Controls
Voltage	200 – 460 VAC	100 – 240 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Three Phase	Single Phase

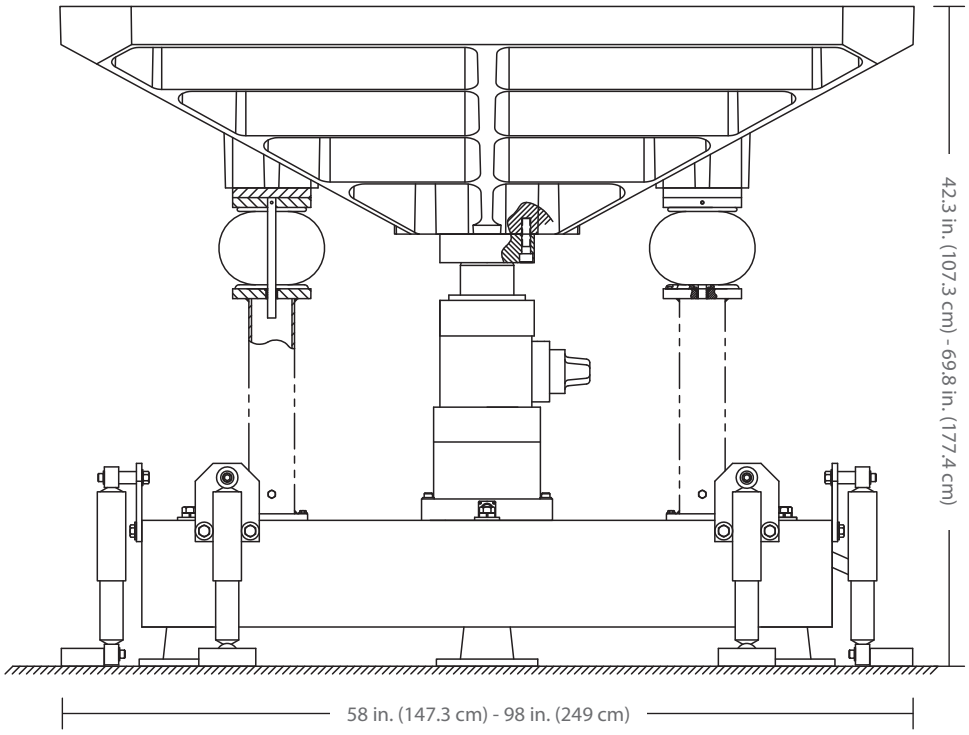
FACILITY REQUIREMENTS

Cooling Water	Standard HPS – 6 gpm at 60°F (23 L/min. at 15.5°C)
Plant Air	80 psi (552 kPa), 1 scfm

For 1-G Supports (optional)

SYSTEM DRAWING

SIDE VIEW



28000
Vibration Tester

Lansmont Field-to-Lab®

The Model 28000 Vibration Test System is our most versatile test platform. The system can be outfitted with large components for testing bulky and heavy payloads. The Model 28000 can also be configured with high-performance components for testing to 500 Hz. or higher.

The Model 28000 Vibration Test System is designed for extreme payload or high performance testing. Each vibration system features a table sized properly for the intended applications, a rugged hydraulic actuator, a reliable hydraulic power supply, and Lansmont's TouchTest Vibration Control System.

PERFORMANCE SPECIFICATIONS	Standard Performance	High Performance
Frequency Range	1 – 300 Hz.	1 – 500 Hz.
Maximum Stroke Options (peak-to-peak)	2.5 in. (6.4 cm) 4 in. (10.2 cm) 6 in. (15.2 cm)	2.5 in. (6.4 cm) 4 in. (10.2 cm)
Actuator Stall Force (at 3000 psi (207 bar))	29,400 lbs. (131 kN)	29,400 lbs. (131 kN)
Actuator Dynamic Force (at 3000 psi (207 bar))	19,600 lbs. (87.3 kN)	19,600 lbs. (87.3 kN)

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28000
Vibration Tester

Lansmont Field-to-Lab®

SPECIFICATIONS

PHYSICAL

Table Sizes	36 in. (91 cm) square	48 in. (122 cm) square
	50 in. (127 cm) square	60 in. (152 cm) square
	60 x 98 in. (152 x 249 cm)	102 x 160 in. (259 x 406 cm)
Standard Hole Patterns	6 in. grid, 3/8-16 Stainless Steel inserts	
	15 cm grid, M10 x 1.5 Stainless Steel inserts	

POWER REQUIREMENTS

	System	Controls
Voltage	460 - 630 VAC	100 – 240 VAC
Frequency	50, 60 Hz.	50, 60 Hz.
Phase	Three Phase	Single Phase

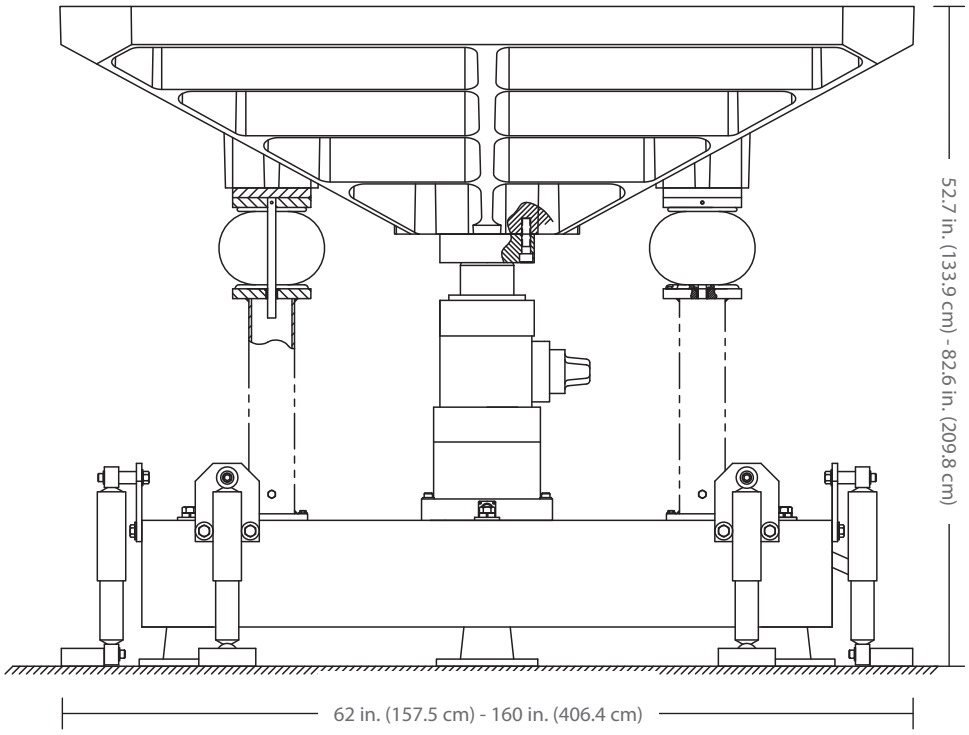
FACILITY REQUIREMENTS

Cooling Water	Standard HPS – 10 gpm at 60°F (38 L/min. at 15.5°C)
Plant Air	80 psi (552 kPa), 1 scfm

For 1-G Supports (optional)

SYSTEM DRAWING

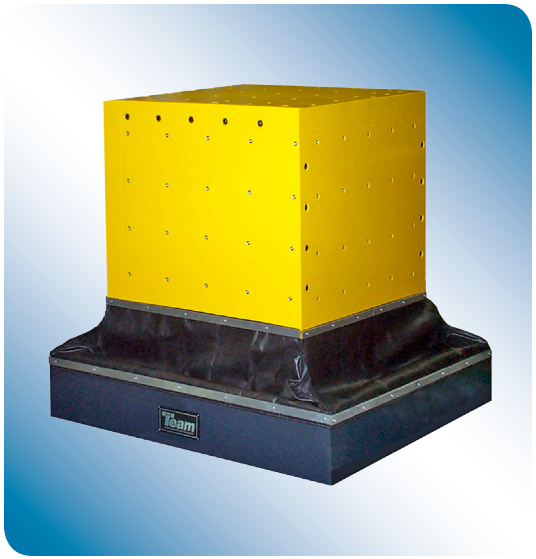
SIDE VIEW

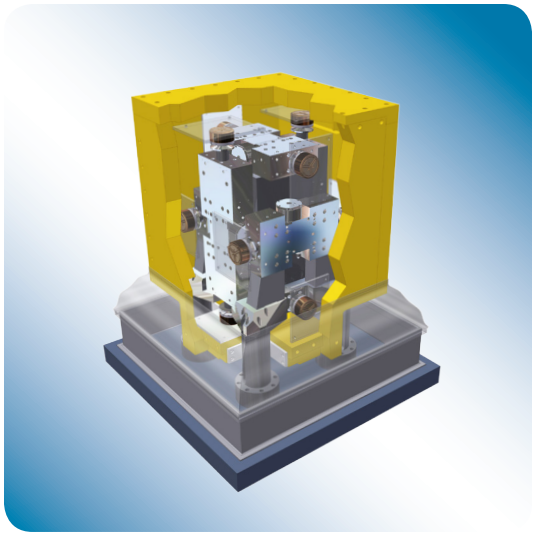


10.18.18

CUBE™ Vibration Tester

Lansmont Field-to-Lab®





Giving you the ability to replicate vibration environments with full 6 degrees of control, Lansmont has taken vibration testing to a whole new level. An advanced technology vibration test system that offers 6 Degrees of Control, the CUBE™ can accurately replicate many vibration environments with precise digital control.

The CUBE™ simulates real-world 6 Degree of Freedom vibration with complete, simultaneous control of the amplitude and phase of all 6 Degrees of Freedom. Offering simultaneous or sequential excitation of test articles in Sine, Random and Time Wave Form Replication, the CUBE™sets the standard for multiaxis vibration testing.

PERFORMANCE SPECIFICATIONS	Model 3-LS
Frequency Range:	0 - 250 Hz.
Maximum Stroke:	
Vertical	3.8 in. (97 mm)
Lateral	1.8 in. (46 mm)
Longitudinal	1.8 in. (46 mm)
Rotational Displacement:	
Roll	+/- 4 degrees
Pitch	+/- 4 degrees
Yaw	+/- 4 degrees
Peak Sine Force:	
Per Actuator	7,000 lbs. (31 kN)
Per Axis	14,000 lbs. (62 kN)
RMS Random Force:	
Per Actuator	3,500 lbs. (15.5 kN) rms
Per Axis	7,000 lbs. (31 kN) rms

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5.11.16

CUBE™ Vibration Tester

Lansmont Field-to-Lab®

MODEL 3-LS SPECIFICATIONS

PHYSICAL

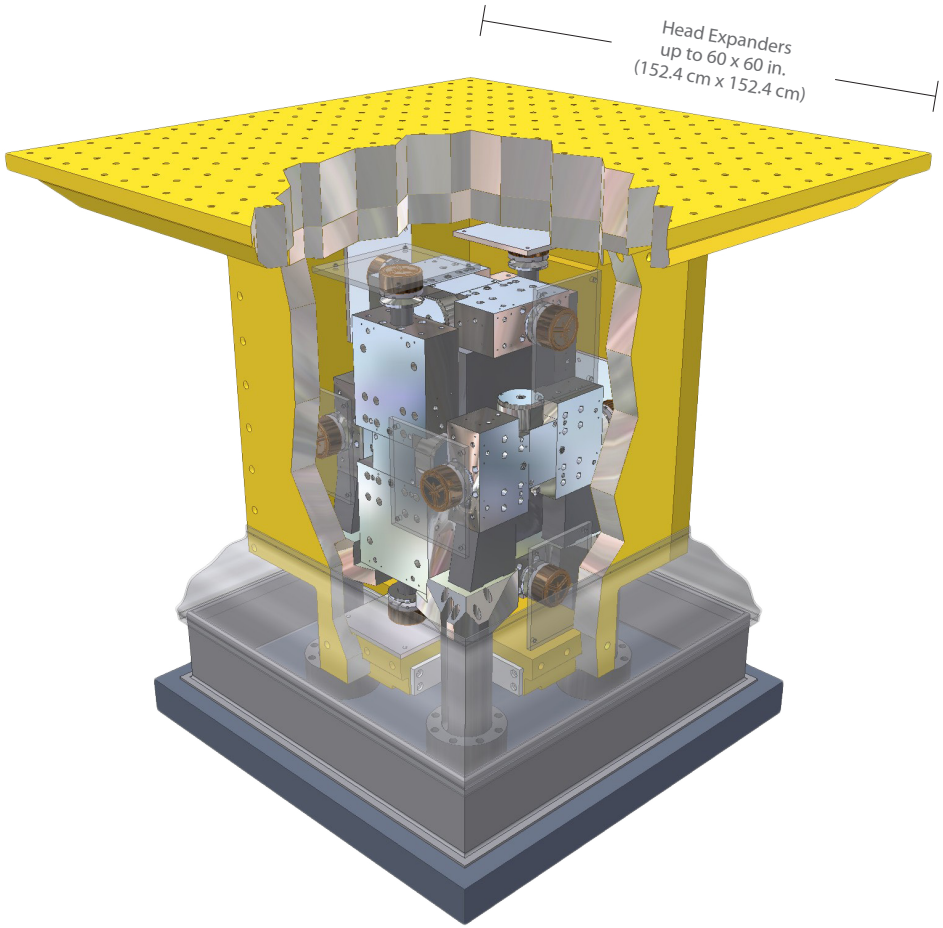
CUBE Top Mounting Surface	32 x 32 in. (81 x 81 cm)
CUBE Side Mounting Surfaces	32 x 24 in. (81 x 61 cm)
Head Expanders	Up to 60 x 60 in. (152.4 cm x 152.4 cm)
Bare Table Moving Mass	1430 lbs. (648 kg)
First Mode frequency	300 Hz

HYDRAULIC POWER REQUIREMENTS

Hydraulic Power	70 gpm (270 lpm) @ 3000 psi
Electrical Power	125 HP equivalent
Cooling Water	41 gpm (158 lpm) <80^{0}F (26^{0}C)

SYSTEM DRAWING

ISOMETRIC VIEW



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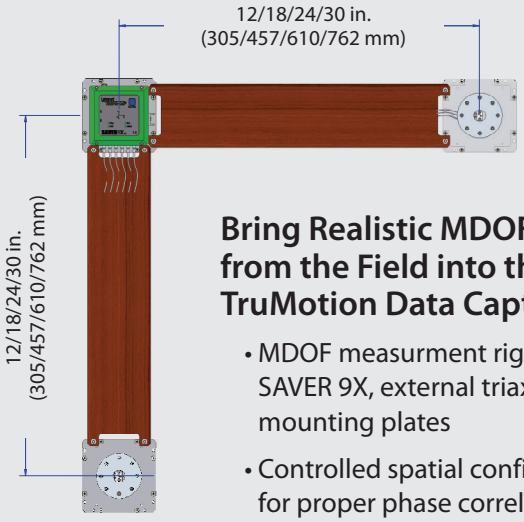
Lansmont

TruMotion™
Vibration Systems

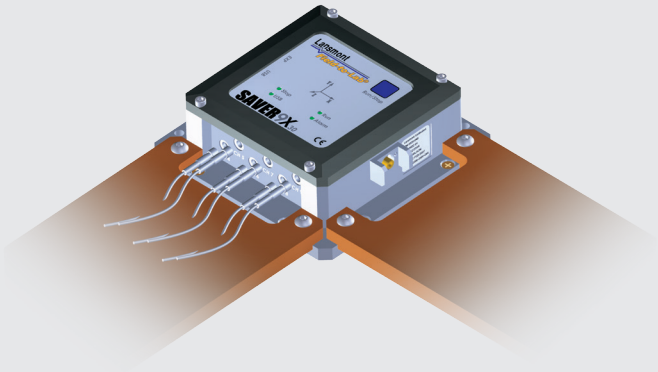
Load Stability Test System

Vast improvements in the quality and quantity of environmental field data now demands improvements in test methodologies. Regulatory bodies are starting to require testing that's closer to reality – closer to the truth. Introducing Lansmont ***TruMotion™*** vibration systems, delivering high fidelity, multi-degree of freedom motions. Our advanced simulation solutions bring true-to-life test results directly into your laboratory.



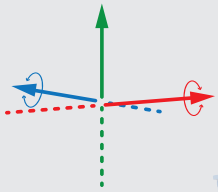
Bring Realistic MDOF Event Data from the Field into the Lab with TruMotion Data Capture

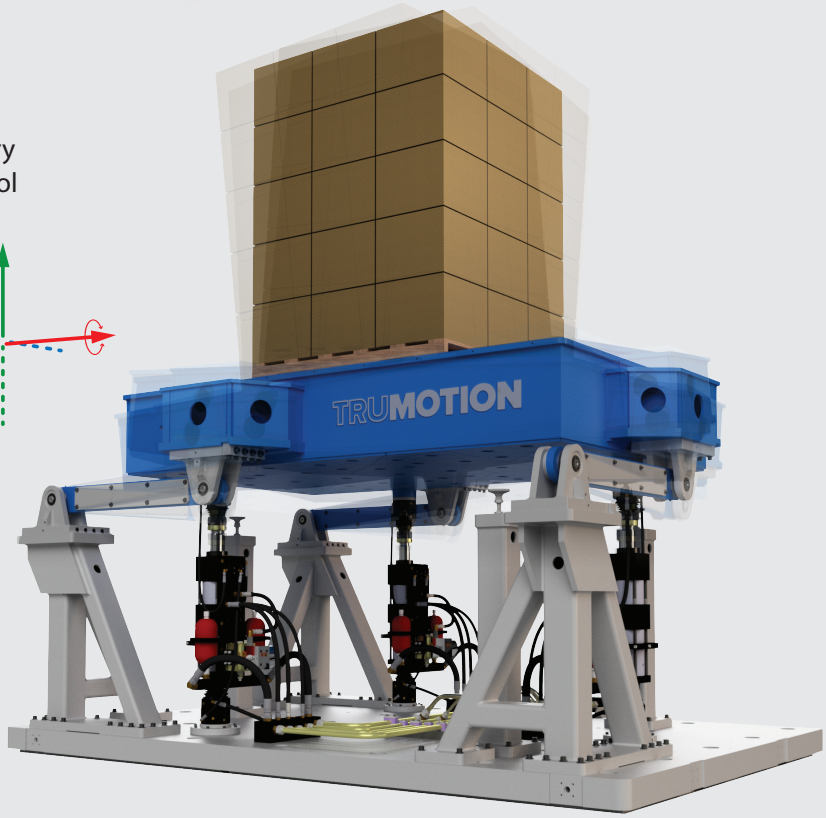
- MDOF measurment rig, including SAVER 9X, external triax accels and mounting plates
- Controlled spatial configuration for proper phase correlation
- PSD summary and correlation
- Data output for MDOF laboratory test system drive profile & control



Advanced Features to Advance the Accuracy of Your Testing

- Robust and durable design, assuring maximum operational efficiency
- Time-domain and PSD based motions and corresponding fidelity
- Pitch, roll and vertical inputs
- Pure fidelity
- Advanced simulation, comparably closer to reality
- Unique dynamic characteristics warrant unique simulation





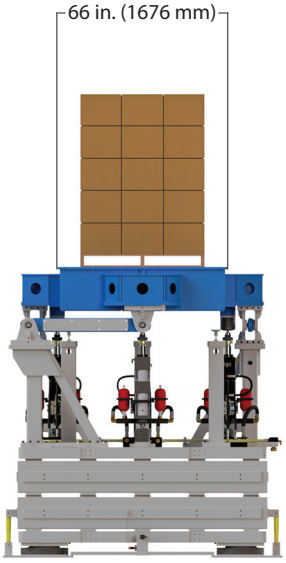
Lansmont

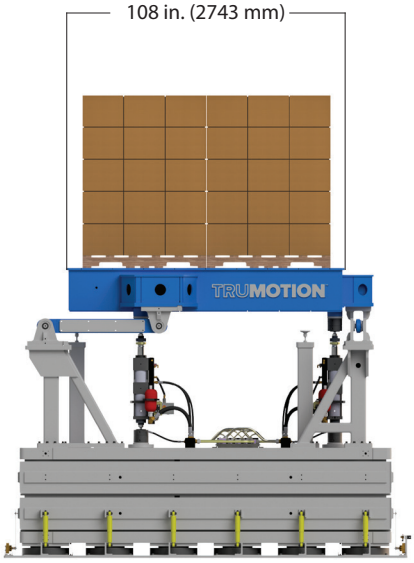
TruMotion™
Vibration Systems

Table Dimensions

Side to side: 108 in. (2743 mm)

Front to back: 66 in. (1676 mm)





Test Capabilities

8000 lbs. (3629 kg) max. payload, with 40 in. (1016 mm) high specimen CG

3DOF – pitch, roll and vertical inputs

Max. acceleration 1.5g

Max. velocity 20 ips (0.508 mps)

Max. displacement 6 in. (152 mm)

Max. rotational angles +/- 6.5°

ISTA & ASTM Truck and Rail SDOF PSDs

Field-to-Lab® drive file incorporation

Features

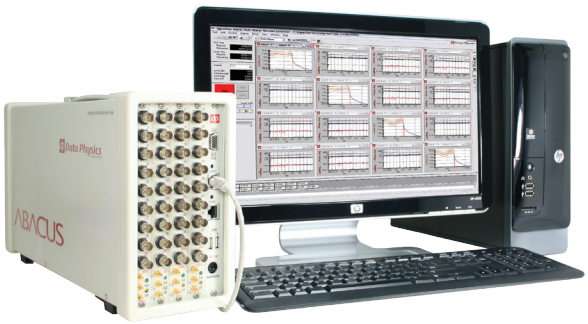
Best-in-class Data Physics* Matrix multi-axis vibration controller

Sine, random and time waveform replication software

Thru-put to disk and calibration software

16 input channels for control and data acquisition

Dedicated host PC with 24 in. (609 mm) LCD monitor



*Data Physics is a member of the NVT Group.

NOTE: Continued product improvement necessitates that Lansmont reserves the right to modify these specifications at any time without notice.