V-SERIES™ TRANSPORTATION SIMULATOR

L.A.B. Equipment, Inc.’s, V-Series™ Transportation Simulators are used to determine the ability of packages and products to withstand shock and vibration encountered during the typical transport environment. Our transportation simulators use three methods of motion; rotary or circular synchronous motion, vertical linear motion and non-synchronous motion to provide you with the tools you need to meet your specific requirements.

Applicable Test Standard Compliance
- ISTA 1A, 1B, 1C, 1D, 1E, 2A, 2B
- ASTM D999
- ISO 2247
- Mil Std 810G
- TAPPI, JIS, UN, Fed Std 101
Other corporate specific, internationally and industry recognized standards.

V-SERIES™ FEATURES
- Adjustable frequency
- Rotary synchronous motion
- Vertical linear motion available (V400 and larger)
- Non-synchronous motion available (V400 and larger)
- Replaceable decking for realistic simulation and excellent wear resistance
- Accommodates large and small test payloads
- Easy installation and low maintenance
- User friendly controls
- Built in timer and safety functions
- Pedestal mounted for versatile orientation
- Each system comes standard with containment fencing sufficient for loose load transportation simulation
- Designed to meet above noted performance standards
- Fixed Displacement of 1” (25 mm)
- Maximum Acceleration of 1.25 g
- Frequency 2-5hz (120-300RPM)
- CE Compliant
- Rotary synchronous motion
- Vertical linear motion
- Non-synchronous motion
- Oversized and special sized tables

![Vibration Analysis](image)

### Speed versus Acceleration “G” graph

- **ACCELERATION (G)**
  - 0.2
  - 0.4
  - 0.6
  - 0.8
  - 1
  - 1.2
  - 1.4

- **SPEED OF VIBRATION TESTER (RPM)**
  - 100
  - 140
  - 180
  - 220
  - 260
  - 300

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>V250</th>
<th>V400</th>
<th>V1250</th>
<th>V2000</th>
<th>V4000</th>
<th>V6000</th>
<th>V8000</th>
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</thead>
<tbody>
<tr>
<td>Payload Capacity</td>
<td>250 lbs. (113 kg)</td>
<td>400 lbs. (181 kg)</td>
<td>1250 lbs. (567 kg)</td>
<td>2000 lbs. (907 kg)</td>
<td>4000 lbs. (1814 kg)</td>
<td>6000 lbs. (2722 kg)</td>
<td>8000 lbs. (3628 kg)</td>
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<tr>
<td>Table Size (W x L)</td>
<td>36x42 in (910x1070 mm)</td>
<td>48x48 in (1200x1220 mm)</td>
<td>60x60 in (1520x1520 mm)</td>
<td>60x60 in (1520x1520 mm)</td>
<td>60x60 in (1520x1520 mm)</td>
<td>96x96 in (2438x2438 mm)</td>
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<tr>
<td>Table Height (approximate)</td>
<td>18 in (462 mm)</td>
<td>19 in (480 mm)</td>
<td>22 in (560 mm)</td>
<td>22 in (560 mm)</td>
<td>23 in (580 mm)</td>
<td>26 in (660 mm)</td>
<td>28 in (710 mm)</td>
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<tr>
<td>Max Acceleration</td>
<td>1.25 G</td>
<td>1.25 G</td>
<td>1.25 G</td>
<td>1.25 G</td>
<td>1.25 G</td>
<td>1.25 G</td>
<td>1.25 G</td>
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<tr>
<td>Frequency Range</td>
<td>2-5 Hz (120 - 300 rpm)</td>
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<tr>
<td>Displacement</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
<td>1 in (25 mm) Fixed</td>
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<tr>
<td>Vertical Linear Motion</td>
<td>NA</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
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<tr>
<td>Non-Synchronous Motion</td>
<td>NA</td>
<td>Optional</td>
<td>Optional</td>
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<td>Optional</td>
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<tr>
<td>Utility Requirements</td>
<td>100-130 VAC or 200-230V - 1 phase/50 or 60Hz</td>
<td>230/460VAC/3 phase/60Hz or 380/3 phase/50Hz</td>
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<tr>
<td>Approx. Shipping Weight</td>
<td>700 lbs. (317.5 kg)</td>
<td>1215 lbs. (551 kg)</td>
<td>2000 lbs. (907 kg)</td>
<td>2400 lbs. (1089 kg)</td>
<td>3150 lbs. (1429 kg)</td>
<td>3410 lbs. (1547 kg)</td>
<td>6285 lbs. (2850 kg)</td>
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<tr>
<td>Machine Dimensions</td>
<td>42x40x33.25 in (1067x1016x844 mm)</td>
<td>50x52x38 in (1232x1321x960 mm)</td>
<td>71x67x55 in (1803x1702x1346 mm)</td>
<td>96x96x81 in (2489x2489x2057 mm)</td>
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<td>Control Stand Dimensions</td>
<td>12x12x45 in (305x305x1143 mm)</td>
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<td>Applicable Standards</td>
<td>ISTA-1A, 1B, 1C, 1D, 2A, 2B, 6-FedEx-A, 6-FedEx-B, ASTM-D999, ISO-2247, MIL STD-810G, FED-101; and other international and industry recognized standards</td>
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</table>

### AVAILABLE OPTION

Monitor your testing with Test Lab Professional™

- Professional grade data acquisition and analysis system
- Up to 4 channels
- Sample rate as high as 51.2 kS/s/chan
- Acceleration as high as 5G
- 24 Bit ADC
- Multi-tool data manipulation
- See LAB’s TestLab Professional™ brochure for more detail

**A Spectral Dynamics Company**

L.A.B. Equipment, Inc., 1549 Ardmore Avenue, Itasca, IL 60143, USA
Phone: 630-595-4288 Fax: 630-595-5196 www.labequipment.com

Rev E