



L.A.B. VibraTest-Series™ of mechanical shakers with a typical frequency range of 8-60 Hz, provide a low-cost approach for testing electronic products and components for loose solder connections and hardware failures. AMC+ (Advance Machine Control) comes standard with our VibraTest-Series, this feature expands the capabilities of the machine even further.

### CONFIDENCE IN L.A.B.

Our VibraTest-Series™ of mechanical vibration systems meet ISTA, ASTM, MIL STD, ISO and other internationally and industrially recognized standards. We offer a wide variety of standard table sizes and capacities along with a standard frequency range from 8 to 60 Hz.

### VIBRATEST-SERIES™ FEATURES

- Reaction type, mechanical vibration, DC Drive machine performs vertical and horizontal sinusoidal tests.
- Test Frequency is infinitely adjustable between 8 and 60 Hz under operation.
- Any combination of frequency and displacement must not exceed 3.2 G acceleration (10G optional).
- Self contained, built in isolation system eliminates the need for special foundations.
- Advanced design pneumatic system provides low frequency isolation and payload stability that is far superior to steel spring isolators.
- Vibratory displacement is manually adjustable when the machine is not operating.
- Once set, displacement is maintained at a constant level regardless of the test frequency.
- This station has an E-Stop as well as power light and speed control.
- Standard utility requirements: 200V/1Ø/60Hz power and source of 70-psi air for suspension adjustments (low volume of air required only during suspension adjustments, air is not required to operate the machine).

### VIBRATEST-SERIES™ OPERATION

Operation is performed through L.A.B.'s exclusive Advanced Machine Control Plus (AMC+), a Windows based control and display software package. Open up the program, select either continuous vibration or a frequency sweep mode. In continuous vibration mode, select the frequency level, maximum acceleration limit, and run duration. In frequency sweep mode, select the lower and upper frequency limits, cycle period, maximum acceleration limit and run duration. In either mode, the user must set the displacement manually with adjustable counter-weights on the vibration table. This procedure requires the user to calculate the displacement with a known frequency and acceleration.

(Shown with optional insulated table.)



## VIBRATEST-SERIES™ OPTIONS

- 10G Maximum Acceleration
- Insulated table top
- casters
- Height risers
- Track
- Diaphragm Support Brackets
- Stainless Steel Drip Pan
- Non Standard Voltage
- CE Compliance



## STANDARD FEATURES

> AMC +



- Windows XP Control with Accelerometer and Power/Signal Conditioner
- Auto-Liner Cycling Function
- Over G Interlock Limits
- Acceleration Display (G)
- Replaces Manual Frequency Monitoring and Control
- Remote Interlock Start/Stop Function (For External Chamber)
- Run Duration Timer w/Auto Stop Function



## MECHANICAL VIBRATION MACHINE



Machine Type	Metric	English	Metric	English	Metric	English	Metric	English	Metric	English	Metric	English
Machine Type	BRVD 18		BRVD & BRVHD 24		BRVD & BRVHD 30		BRVD & BRVHD 36		BRVD & BRVHD 48		BRVD & BRVHD 48x66	
Payload Capacity	45 kg	100 lbs	91 kg	200 lbs	136 kg	300 lbs	227 kg	500 lbs	454 kg	1,000 lbs	680 kg	1,500 lbs
Displacement	2 mm	0.08 in	1.3 mm	0.05 in	2.2 mm	0.09 in	2.2 mm	0.09 in	1.8 mm	0.07 in	1.8 mm	0.07 in
Frequency Range	Between 8 & 60 Hz Under Operation		Between 8 & 60 Hz Under Operation		Between 8 & 60 Hz Under Operation		Between 8 & 60 Hz Under Operation		Between 8 & 60 Hz Under Operation		Between 8 & 60 Hz Under Operation	
Maximum Acceleration	3.2 G *		3.2 G *		3.2 G **		3.2 G **		3.2 G		3.2 G	
Standard Table Size	457x457 mm	18"x18"	610x610 mm	24"x24"	762x762 mm	30"x30"	914x914 mm	36"x36"	1219x1219 mm	48"x48"	1219x1676 mm	48"x66"
Standard Vib. Motion	DC drive machine performing VERTICAL sinusoidal tests (BRVHD Series performs both VERTICAL & HORIZONTAL)											
Standard Mounting Hole	M6x1-75mm		M10x1.5-100mm		M10x1.5-125mm		M10x1.5-150mm		M10x1.5-150mm		M10x1.5-150mm	
Applicable Standards	ISTA, ASTM, ISO and other internationally and industrially recognized standards											

\* Represents an available 10 G option on select BRVD models

\*\* Represents an available 10 G option on select BRVHD models