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Vibration Test Solutions

Complete vibration test solutions – without compromise

We help you perform the most complex vibration tests to ensure integrity and reliability of your products. Our comprehensive range of electrodynamic shakers is designed for vibration testing of devices of practically any physical size – from a semi-conductor component to a complete satellite system.

Combined with Brüel & Kjær's world-class data acquisition systems and analysis software suite, LDS and Brüel & Kjær offer the complete vibration testing solution. LDS also offer vital service and staff training to maximise the operation of your vibration test system

Low Force Range - Permanent Magnet Shakers

Our permanent magnet shaker family is designed for applications in modal and structural analysis and small component vibration screening.

- Wide frequency of operation – 5 to 13 kHz
- 8.9 to 489 N peak system sine force
- High energy and cost-efficient
- Low mass armatures and unique suspension system



Medium Force Range - V800 – V8 Electrodynamic Shakers

Our V800 – V8 vibration test system family offers the highest achievable envelope of vibration test parameters for an electrodynamic shaker.

- 8.9 to 56 kN
- High 'g' with lightest high performance armatures
- High cross axial stiffness with roller suspension design
- Large displacement +/- 38 mm on the New V875LS
- Test loads of up to 700 kg with integral load support
- Ultra-quiet running for 'squeak and rattle' applications



High Force Range - V900 – V9 Electrodynamic Shakers

Our V900 – V9 system family offers maximum displacement, velocity and force all available at the same time along with the highest achievable envelope of testing parameters. multi-shaker systems for large payloads are used extensively within the aerospace industry.

- 90 to 289 kN
- Patented resin bonded, carbon fiber armature design
- Water cooled for quiet and clean operation
- High velocity for shock testing with 3 m/s
- Large displacement up to +/- 38 mm



Combos & Custom Systems - Slip Table & Specials

LDS Combos and Seismic Base Slip Tables meet the rigorous demands of three dimensional testing used extensively to test avionics, automotive components and electronic assemblies. These high-precision systems put test items through their paces in two horizontal axes as well as the vertical axis.

- Easy alignment between shaker and slip table, easy shaker rotation
- Hydrostatic Bearing Tables (HBT series) provide ultimate pitch, roll and yaw restraint
- Low pressure tables (LPT series) provide the most cost effective solution
- Lin-E-Air body isolation for low distortion and low frequency test



Vibration Controller - LDS offer two types of Vibration controllers.

The Comet is Very economical yet suitable for random, sine and shock tests. USB connectivity

2 input channels – voltage and ICP coupling
1 output channel

Integrated manual abort button

USB interface port and cable

LASER . It has 24bit precision With wide control dynamic range and fast loop times to provide superb control

Full capability for vibration control, data reduction and signal analysis

Multi-channels, with 4 to 16 channels for multi-point control or analysis

24-bit resolution gives wide dynamic range to control highly dynamic structures

Fast and safe with 100 ms loop time, Supports Sine, Random, RSTD, Shock,

SOR, ROR, SRS, TTH,LTH



Since 1907

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