

TOP STORIES THIS NEWSLETTER



Portable Accelerometer Calibrator



Small Motor Test System
– Electric Motor Application



Electric & Hybrid Battery Testing



Modal Testing Sensors

Portable Accelerometer Calibrator



The new **CV-10** system for calibration of acceleration sensors offers all the advantages of a mobile calibration system - plus the proven user-friendly interface of SPEKTRA.

- On-Site calibration of accelerometers, proximity and vibration velocity sensors, vibration meters etc.
- On-Site calibration of vibration test beds
- Vibration test system for small devices
- PTB traceable calibration certificate (DAkkS)

Frequency range	5 Hz...10 kHz
Velocity, max. (sine peak)	700 mm/s
Acceleration, max. (sine peak)	200 m/s ²
Payload, max.	900 g

Small Motor Test System – Electric Motor Application



Link Engineering Company's small motor test system provides a wide range of motor measurement and characterization capability. This system combines a high-performance dynamometer with a motor analyzer and an array of precision instrumentation for complete small motor drive system analysis.

- Motor analyzer with direct measurement of speed, torque, supply voltage and current, and motor lead voltage and current
- Torque, speed, and mechanical power measurement using servomotor dynamometer
- Direct drive AC servo dynamometer with four quadrant control (\pm speed, \pm torque)
- In-line shaft torque transducer with maximum torque up to 200 Nm
- Maximum speed up to 20,000 rpm
- Horizontal and vertical shaft configurations with quick change motor adaptors and fixtures
- Motor analyzer measurements/calculations including Urms, Irms, P, Q, S, $\cos\phi$, λ , fundamental power, Id, and Iq
- Integrated high precision measurement instrumentation

Electric & Hybrid Battery Testing

Battery pre-production qualification and functional test for Electric and Hybrid Vehicles

Working with a leading automotive research department, LDS has delivered a custom vibration test system for hybrid battery durability testing and for Highly Accelerated Life (HAL) testing of multicell computer managed batteries.



This system is being used for hybrid vehicle preproduction qualification, and for functional testing of a complete battery assembly designed to be mounted underneath a car.

The V8900 force shaker, with the combination of a large 6 by 6 ft. slip-table and guided head expander of equal size. The design incorporated special plugs for quick release of the head expander. A great time saver, compared to reconfiguring a standard system from vertical to horizontal which may take up to several hours.



The delivered LDS Vibration Test System is an excellent example of a customer requesting a high performing and versatile system that can easily be adapted to several automotive test demands on large heavy payloads in multiple axes.

Sine force peak	80 kN
Max random force RMS	76.2 kN
Max acceleration sine peak	100 g
Velocity sine peak	1.8 m/s
Displacement continuous pk-pk	101.6 mm
Moving element mass	80 kg
Usable frequency range	5 Hz - 3 kHz

Modal Testing Sensors



The **Dytran Dytranpulse™ series 5800** is a general purpose IEPE impulse hammer used to excite structures or machinery with a definable impulse force.

Available with 5–100 lbf range, the Dytran series 5800 features a 100-gram head weight and is supplied with three interchangeable impact tips.

The 3263 and 3273 Series are low noise, miniature IEPE triaxial accelerometers featuring a single, transverse mounted connector, ideally suited for Modal Testing and Structural Analysis applications, with their low weights of 5.6gms and 2.7gms respectively and available with a sensitivity of 10mV/g, 50mV/g or 100mV/g.

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