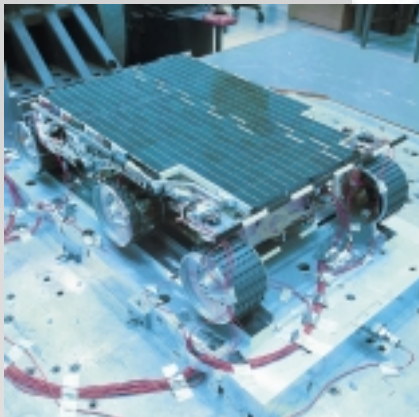


VibRunner

- Vibration Control and Analysis Solution**
- ... IEEE-1394 FireWire interface for high-speed data transfer**
- ... Agilent VXI hardware for high-quality measurements and control**



Mars lander testing at Jet Propulsion Laboratory, Pasadena/California





Vibration control and analysis system

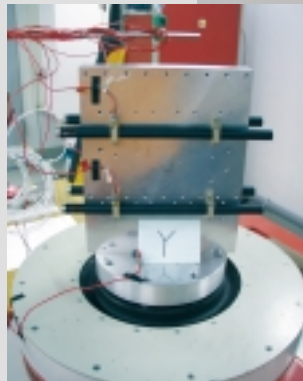
m+p international has been at the forefront of shaker control systems for over a decade. Pioneering developments and broad experience gained from more than 300 installations world-wide are part of our success.

VibRunner is one of the exciting members of our growing VibControl product family. Providing VXI instrumentation and DSP functions for the Windows NT™/2000™-based system, VibRunner is an excellent alternative within the product range of 8 to 48 channel applications for the automotive, aerospace and defense. The industry standard IEEE-1394 FireWire interface is dedicated to efficient and inexpensive high-speed data transfer between the VXI hardware modules and the host PC. This means increased performance at a reduced system price. Obviously VibRunner is equipped with the same proven software user interface which is used across the entire VibControl product family – starting from two-channel to high-channel count reference systems.



To keep you in advance of your competition, VibRunner is designed for reliable, high-quality testing of your products without the compromise.

Vibration testing at PHOENIX TEST-LAB, Blomberg/Germany

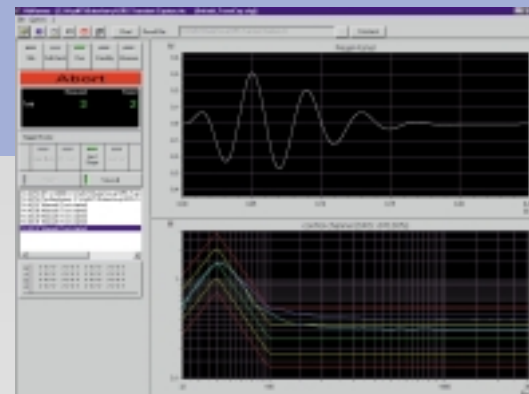


Magnetic torquer testing at ZARM (Center of Applied Aerospace Technology and Microgravitation), Bremen/Germany

VibRunner

Outstanding instrumentation performance and established Windows NT™/2000™-based software for research, design and verification

- 8–48 input channels, 12.8 kHz frequency range, 20 bits, 90 dB dynamic range, ICP source, breakout-box
- IEEE-1394 FireWire interface for throughput rates of up to 14 MB/s
- 2 output channels, max. ± 10 V drive, COLA-stroboscope output, emergency shutdown
- On-board DSP for powerful control
- Swept/stationary sine (incl. notching), sine dwell, random (incl. notching), shock, SoR, RoR, transient capture, sine data reduction
- Isolated signal conditioning for minimum unwanted noise and reliable control
- Test sequencing, digital I/O for climatic chamber testing



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Channel Partner