



# ADAMS

Total Testing Solutions for NVH, Durability ,  
Environmental Simulation & Facility  
Development

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Qsources is a comprehensive hardware suite of specialized acoustic and structural excitation devices. Designed to measure vibro-acoustic transfer functions and structural dynamics, engineers use these tools to efficiently and accurately evaluate noise, vibration, and harshness (NVH) in products across industries like automotive and aerospace.

### Acoustic Excitation:

Qsources Acoustic Excitation solutions deliver accurate and stable sound sources for advanced acoustic measurements across building acoustics, vehicle testing, and room analysis applications.

### Products:



Lightweight, powerful, and highly accurate, the Qohm delivers omnidirectional sound from 50 Hz to 16 kHz for building acoustics, reverberation, and isolation testing. Its compact 3.1 kg design ensures easy portability without compromising measurement performance.



Achieve highly accurate room acoustics measurements with the Qoms2 monopole sound source. Delivering 112 dB output across 50 Hz–16 kHz, its lightweight 1.7 kg design ensures easy transport, quick setup, and reliable results for reverberation, STI, and impulse response testing.



The Qref is a compact, lightweight reference sound source designed for sound power identification, acoustic room verification, and calibration applications. Operating across a broadband frequency range of 50 Hz to 8 kHz, it exceeds ISO 6926 requirements while providing accurate and repeatable acoustic measurements. Its 1.1 kg design enables easy single-person setup, making it ideal for laboratories, reverberation rooms, anechoic chambers, and on-site machinery testing.

## Structural Excitation:

Qsources **Structural Excitation** solutions combine efficiency and accuracy with lightweight, self-aligning shakers designed for reliable and repeatable vibration measurements.



A compact electromagnetic shaker with integrated force sensing, delivering excitation forces up to 45 N across a frequency range of 5 Hz to 12.5 kHz. Ideal for modal analysis, NVH testing, and structural dynamics applications, it provides accurate and repeatable vibration measurements in both lab and field environments.



A high-force electromagnetic shaker delivering excitation forces up to 440 N for advanced vibration and structural dynamics testing. Its suspended design, integrated force sensing, and wide frequency range ensure accurate, repeatable measurements for modal analysis, NVH investigations, and large structure testing applications accuracy.



A compact electromagnetic shaker designed for precise structural excitation and vibration testing. Featuring an integrated force transducer and patented self-aligning suspension system, it delivers reliable, repeatable measurements with minimal mass loading. With a frequency range up to 12.5 kHz, its lightweight, portable design makes it ideal for EMA, TPA, and NVH applications in both laboratory and field-testing environments.



A portable, battery-powered tapping machine designed for accurate impact noise measurements in building acoustics. Weighing just 8.1 kg, it features remote-controlled operation and delivers reliable, repeatable results for floor and stair impact sound testing, making it ideal for both laboratory and on site acoustic assessments.

To Know more

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