

Delphi Technical Center Rochester Vibration Laboratory

The Vibration Laboratory at the Delphi Technical Center Rochester (TCR) offers customers efficient and reliable dynamic evaluations and durability studies for a wide variety of products. The lab has conducted studies for automotive, military and consumer product manufacturers in:

- Resonance searches
- Sine testing
- Random vibration testing
- Sine on random testing
- Random on random testing
- Shock testing
- Frequency response testing
- Time waveform replication testing

The TCR Vibration Laboratory has seven electrodynamic shaker systems; six of the units are coupled with climatic chambers. All shakers feature a unibase system, which offers quick change from vertical to horizontal testing. All shakers are in individual cells, which allow accompanying cycling or monitoring equipment to be located nearby and for customer confidentiality. Testing is conducted by a highly trained and experienced staff that understands the challenges facing manufacturers today. Laboratory services are conducted to meet individual customer schedules at a competitive cost. Professional, experienced account management provides customers with single-point contact to streamline coordination.

Delphi's TCR Vibration Laboratory supports customers who do not have in-house testing capabilities, or require "overflow" testing services.

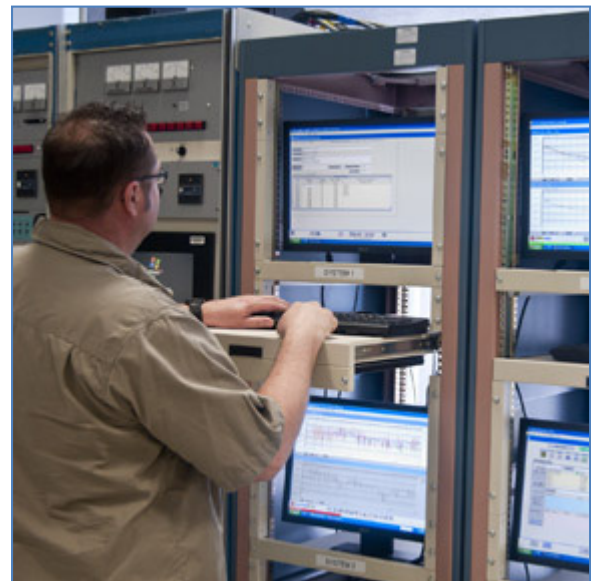
► Capabilities

Delphi's TCR Vibration Laboratory includes seven electrodynamic shaker systems with the following features:

- Frequency range from 5 Hz to 2,000 Hz
- Maximum force to 26,000 pounds (11,800 kilograms)
- Maximum displacement of 2 inches (50 millimeters)
- Temperature range from -40°C to 170°C
- Humidity range from 5% to 95% relative humidity



Typical set-up for the Vibration Laboratory at Delphi's Technical Center Rochester



Vibration Laboratory Control Room at Delphi's Technical Center Rochester

▶ The Delphi Advantage

Through the development of world class products for the global vehicle market, TCR provides a one stop environmental test location to support a customer's product development requirements. TCR's vast capabilities can expose products to the most stringent transportation and military standards. Delphi offers quick turnaround time and maintains customer confidentiality.

TCR is a development location for several Delphi ISO/TS 16949 certified manufacturing sites. It is part of Delphi's network of state-of-the-art technical centers around the world.

Delphi is a leading global supplier of a broad range of technologies with manufacturing, engineering and customer support facilities in 30 countries. Delphi's products are engineered to meet the rigorous standards of the automotive industry, but Delphi technologies are also used in many other industries. We leverage a rich heritage and extensive technical knowledge to offer customers an array of innovative, cost competitive solutions.

▶ Contact Information

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