

Delphi Technical Center Rochester Engine Testing Laboratory

The Engine Testing Laboratory at the Delphi Technical Center Rochester (TCR) offers vehicle manufacturers and automotive component suppliers both performance and durability services. The lab has conducted studies in:

- Combustion research
- Product development
- Product performance
- Engine management system calibration
- Component durability

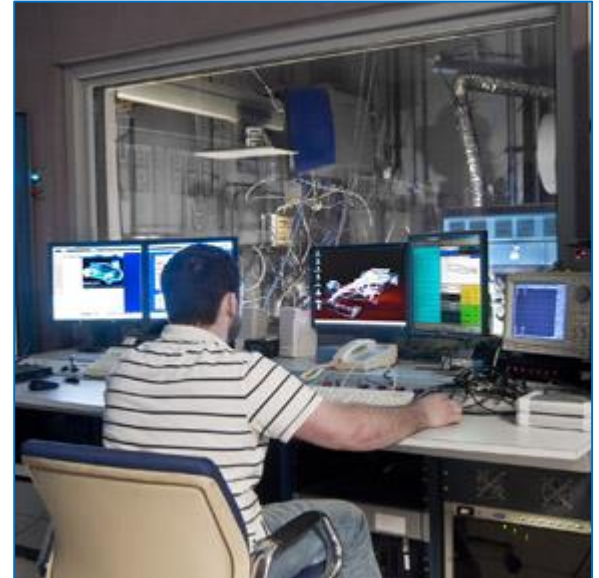
The TCR Engine Testing Laboratory offers customers validation resources that have been enhanced over years of collaboration with major vehicle manufacturers around the world. Testing is conducted by a highly trained and experienced staff that understands the challenges facing manufacturers today. Complete confidentiality for testing is assured. 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 test coordination.

Delphi’s TCR Engine Laboratory supports customers who do not have in-house testing capabilities, or require “overflow” testing services.

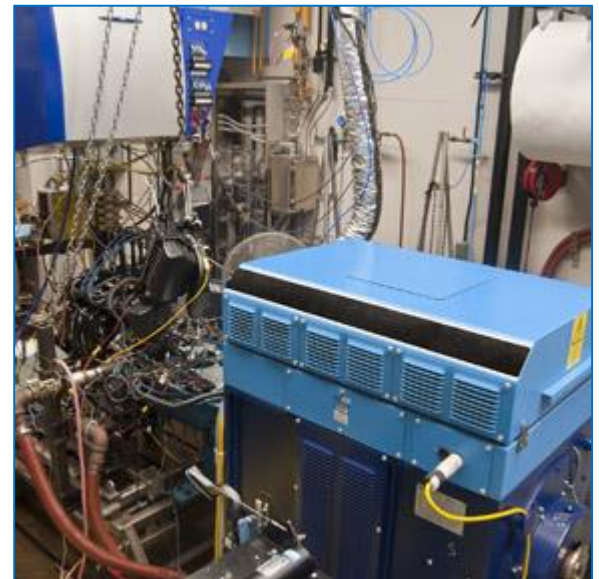
► Capabilities

Delphi’s Technical Center Rochester Engine Testing Laboratory includes three performance test sites. The lab offers the following capabilities:

- One 330 kW/ 10,000 rpm AC dynamometer
- Two 380 kW/ 8,000 rpm DC dynamometers
- All test cells are equipped with complete data acquisition and controls that are integrated with the instrumentation systems:
 - Engine and tailpipe bench
 - Particulate measurement number, mass and size distribution
 - Combustion analysis system
 - Combustion air measurement and conditioning
 - Fuel measurement and conditioning
 - Seven test fuel storage tanks
- All engines are installed on quick change carts for test efficiency



Engine Testing Laboratory Control Room at Delphi’s Technical Center Rochester



Typical set-up for Engine Testing at Delphi’s Technical Center Rochester

The TCR Engine Test Lab also includes two durability test sites with the following capabilities:

- Up to 450 kW/ 8,000 rpm eddy current durability dynamometers
 - Capable of running 24 hours a day, 7 days a week
 - 12 test fuel storage tanks
- Free running engine capabilities

▶ **The Delphi Advantage**

Through the development of world class products for the global vehicle market, Delphi's Technical Center Rochester 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**

Delphi Powertrain Systems
Technical Center Rochester
5500 West Henrietta Road
West Henrietta, New York 14586
U.S.A.
Telephone: 585.359.6212
E-mail: Testing.TCR@delphi.com