

Westtest

Innovative Testing for Industry



www.westtest.ca

- Full-vehicle, equipment and component testing
- Performance, durability and safety testing
- Engineering, design and prototype fabrication
- Alternative fuel performance evaluation
- Standards certification testing
- Feasibility studies

• Baseline data acquisition and analysis • Simulation testing (force, load, vibration, stability, endurance) • Real-time (on-the-road) performance testing • Extreme temperature testing • Full-vehicle engine and power train testing • Multi-axis simulation • Maximum loads • Durability testing • Engine • Power train performance • Vehicle performance testing • Quality control • Flammability • Longevity • Impact • Performance • Machine component and product testing • Customization • Evaluations • Field Studies • Safety • Innovation • Technology • Commitment • Industry • Prototype • State-of-the-art • Engineering • Proving and improving design • Fuel efficiency • Design modifications • Tow Dynamometer • Chassis Dynamometer • Test tracks • Simulation testing • Failure analysis • Engine test stand • Baseline data analysis • Commitment • Industry



Proving and Improving Design

A North American Leader in Testing and Design

WESTEST is an industrial testing facility with two decades of proven, industry-respected service delivering advanced product development and physical testing services for equipment and vehicle

manufacturers across North America.

WESTEST evaluates components, full vehicles and machines for a wide range of equipment and manufacturing industries.

Benefits of Working with WESTEST for Product Testing and Design

Choosing WESTEST as your equipment testing and design partner offers key advantages:

- ❑ Saves you time and money compared to setting-up and operating an in-house test centre
- ❑ Provides economical specialty services not available in-house
- ❑ Provides redesign and modification services to correct substandard performance
- ❑ Shortens the product development cycle

- ❑ Helps ensure product durability and safety
- ❑ Helps reduce warranty costs
- ❑ Provides product improvements
- ❑ Helps you meet certification and third-party testing requirements
- ❑ Identifies cost-reduction opportunities



A Highly Qualified Team Committed to Service and Innovation

WESTEST is dedicated to providing the necessary attention to detail to accurately administer proven industry-recognized testing services. We are proud of the innovation we bring to developing unique and credible testing protocols in situations where no established procedures exist.

If tests identify component weaknesses or failures, our broad experience provides the knowledge to confidently

and effectively modify design specifications to meet optimum performance requirements.

WESTEST can Test Virtually any Component, any Vehicle, any Machine

Leading our service delivery team is a diverse group of highly qualified and experienced professional engineers. They are supported by innovative and talented technologists, technicians, and fabricators who execute test set-ups, collect data and develop prototypes.

Collectively our team has many years of professional experience in the design and execution of sophisticated product tests, component design and modification and prototype development.

ISO 9001-2008 Certification

WESTEST adheres to ISO-established codes of management practice, which enhances our ability to consistently deliver services and products that meet or exceed our client's demanding requirements.



Partnering with Established Equipment Manufacturers

WESTEST is pleased to serve a broad range of major, well-respected North American vehicle, equipment and component manufacturers.



Innovative Testing for Industry

State-of-the-art Data Collection Technology

A major factor of WESTEST's success is our commitment to use industry-leading testing procedures, equipment and advanced data-collection technologies that can simulate and measure almost any real-world force or condition that equipment or component parts may encounter. Our testing equipment includes:

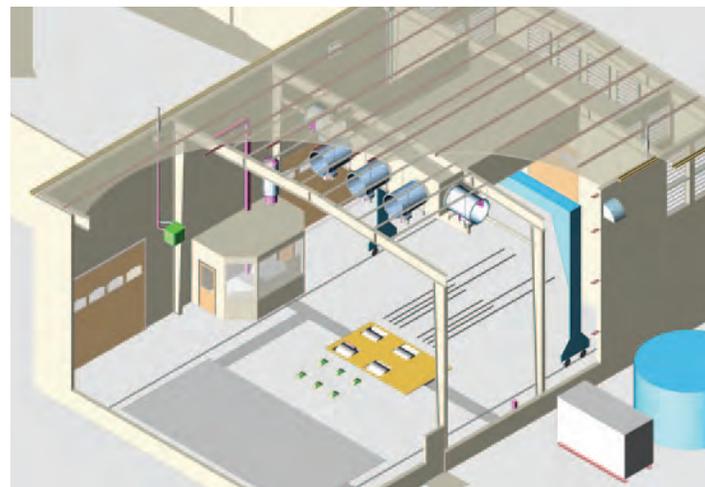
- Chassis Dynamometer
- Engine Test Stand
- Force and Vibration Simulator
- Noise and Vibration Testing
- Off-road Vehicle Proving Ground
- Remote Parameter Control (RPC) process
- Multi-Axial Simulation Table
- Tow Dynamometer
- Extreme Temperature Chamber

To accurately and precisely gather digital data during field or simulated tests, WESTEST deploys the highly versatile and SoMAT eDAQ Mobile Data Acquisition System. Our data collection system and sophisticated analysis provides insightful, informed solutions for industry.



Introducing Our New Alternative Fuel and Vehicle Performance Centre

WESTEST is currently constructing a unique alternative fuel and vehicle performance centre, scheduled to open February 2010. A central feature is a state-of-the-art chassis dynamometer that will simulate on-road vehicle operations in a controlled laboratory environment and allow year-round use with full air-temperature control. The facility also extends WESTEST's alternative fuel evaluation and research strengths. The facility can be used to validate design iterations with precise repeatable results. The ability to provide performance and durability testing at early stages in the research and development cycle will speed up commercialization and provide competitive advantages for component and original-equipment manufacturers.



Serving a Diverse Equipment and Component Manufacturing Sector

Delivering Comprehensive Physical Testing Services

WESTEST's multidisciplinary laboratory serves the equipment design, testing and problem-solving needs of a wide spectrum of vehicle, mechanical equipment and component manufacturers in many sectors across North America including:

Complete Mechanical Units

Road and Off-road Transport

- Bus
- Freight
- Trucks
- Recreational vehicles

Agriculture

- Tractors
- Harvesting equipment
- Hay equipment
- Tillage equipment
- Seeding equipment

Heavy Construction

- Graders
- Gravel trucks
- Dozers
- Backhoes
- Front-end loaders

Mining Equipment

- Underground vehicles
- Surface equipment

Emergency Vehicles

- Ambulances
- Fire trucks

Alternative Energy

- Biofuels
- Wind energy

Equipment and Vehicle Components

- Engines
- Gear boxes
- Seatbelts and anchor points
- Fuel tanks
- Suspension components
- Brakes
- Hitches
- Structural components

Safety Evaluations

- Rollover protective structures (ROPS)
- Falling object protective structures (FOPS)
- Operator protective structures (OPS)
- Tip-over protective structures (TOPS)
- Mowers
- Equipment guards



Conveniently Situated at the Heart of the Continent

WESTEST operations are focused in Portage la Prairie, Manitoba with additional support services provided in Humboldt and Saskatoon, Saskatchewan and Winnipeg, Manitoba.

Our Portage la Prairie facility is strategically located directly adjacent to the Trans-Canada Highway for easy transport of heavy equipment and components for testing. Convenient rail transport is close by and air cargo and passenger service is available through the Richardson International Airport in Winnipeg less than an hour's drive away.

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ISO 9001-2008 Certification



Operating management provided by Prairie Agricultural Machinery Institute (PAMI).