

WHY CHOOSE ACE?



Since opening in 2011, ACE has conducted over 3,000 tests, building unmatched expertise in vehicle testing, aerodynamics, and environmental simulations. Our engineering and technical specialists work closely with clients before testing to understand objectives and develop a tailored plan. During testing, we provide hands-on support, adapting to unexpected challenges to ensure a successful and reliable R&D experience. When you choose ACE, you gain more than a testing facility - you gain a team dedicated to delivering precise, innovative solutions.

Visit our website at
ace.ontariotechu.ca
or scan for more details



ACE Climatic Wind Tunnel

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ACE Climatic Aerodynamic Wind Tunnel

Commercial Testing, Research and Development
at Ontario Tech University



ACE IS A SOLUTION PROVIDER THAT DRIVES INNOVATION

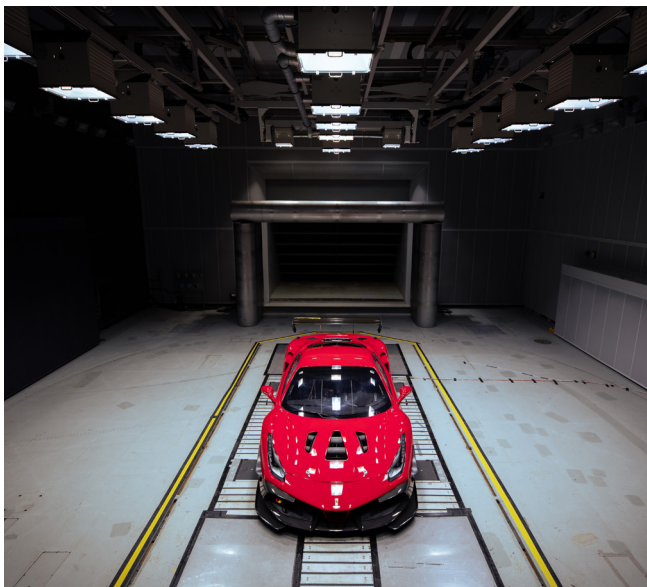
ACE is a world-class research and development facility and has experienced engineers and technicians to deliver solutions to any product development or testing problem.

Our environment can re-create any weather conditions a vehicle will experience anywhere in the world, from the blistering heat in Death Valley to the frigid conditions in the Arctic.

We use our multiple chambers to:

- ▶ Test automotive, architectural and aerospace products under extreme conditions
- ▶ Support high performance testing for product development and sports training
- ▶ Improve the performance of elite athletes and first responders
- ▶ Provide services to other markets including the tech industry, film production and motorsports

ACE serves leaders in industry and academia – those who want to discover their ideas can survive the ultimate array of physical and dynamic challenges.



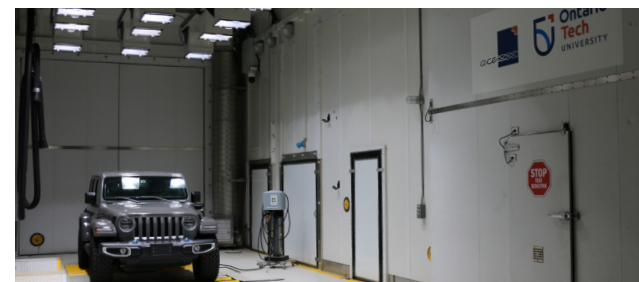
CLIMATIC AERODYNAMIC WIND TUNNEL

All-in-one testing experience

- ▶ Complete suite of ancillary systems for customer vehicle operation, including hydrogen and electric vehicle compatibility
- ▶ Temperature capabilities from -40°C to +60°C and relative humidity (RH) from 5% to 95%
- ▶ Test in wind up to 280 km/h and precipitation conditions including rain, snow, and freezing rain
- ▶ Crosswinds testing enabled through independently powered rolls chassis dynamometer
- ▶ Low background noise level (64dBA at 50kph)

LARGE CLIMATIC CHAMBER

- ▶ Exceptionally long test section, accommodating vehicles as large as an articulated bus
- ▶ Equipped with a Mustang 1,000 horse-power chassis dynamometer
- ▶ In-chamber modular DC fast-charge capability up to 350kW
- ▶ Extreme temperature and humidity control capabilities included



SMALL CLIMATIC CHAMBER

- ▶ Precipitation capabilities including rain, freezing rain, snow
- ▶ 350 kW DC Fast Charger
- ▶ Complete suite of ancillary systems for customer vehicle operation, including hydrogen and electric vehicle compatibility

