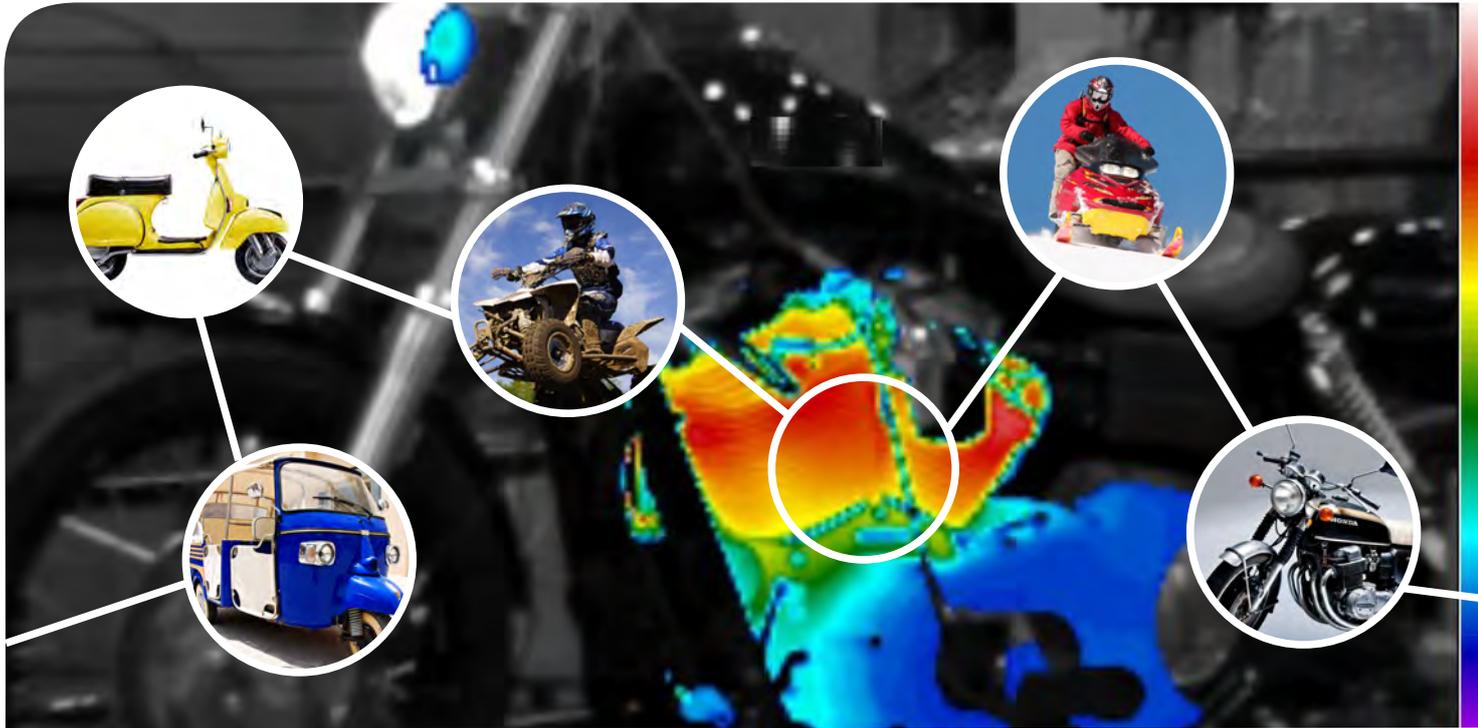


# Motorcycle and Recreational Vehicle Testing

**Intertek**

Valued Quality. Delivered.



Intertek Carnot Emissions Services (CES) is a contract-based ISO 17025 certified and 40 CFR 1065 compliant Intertek subsidiary. Intertek CES has been testing motorcycles, ATVs and off-road utility vehicles (ORUVs) for more than 10 years.

We provide independent engine evaluations, emission testing, and consulting support. Intertek CES uses fixed price contracts for its services that are menu priced, including consulting and regulatory compliance support.

Additionally, we conduct testing of electrical motors, generators, gear pumps, hydraulic systems, CVTs, and other rotational parts and equipment. Intertek CES is an EPA/CARB recognized lab with a large range of capabilities.

## Test Capabilities

- 40 CFR 86 Subparts E/F (Motorcycles)
- 40 CFR 1051 Recreational (ATVs, Dirtbikes, Snowmobiles, ORUV)

## Our Facilities

Intertek Carnot Emission Services is located at Port San Antonio, USA, in a 29,500 sq. ft. facility previously utilized by the US Air Force. Over 23 AC regenerative drive dynamometers perform a variety of testing. Two motorcycle/ATV chassis dynamometers are used for durability and emissions tests.

### Chassis Dynamometer:

- Roll Diameter: 16.2 in ( 0.41 m) single roll
- Max Track Width: 64 in (1.62 m)
- Max Vehicle length: 12 ft (3.66 m)
- AC dynamometer can simulate road load power for Class I, II, and III up to 110 mph (177 kph)
- Controlled test cell ambient air
- Variable-speed vehicle cooling fan

## Quick Intertek Facts

- Intertek test experts are able to design, develop and fabricate specialty, one-of-a-kind test stands
- We provide a variety of testing available for both standard and accelerated engine aging studies
- Elevation simulation testing is available to 7000 ft



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Emission development, audit, and certification testing is accomplished with full flow dilute CVS-PDP exhaust gas measurements of hydrocarbons (HC), nonmethane hydrocarbons (NMHC), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), and particulate matter (PM), and other unregulated constituents. Intertek CES can also measure exhaust gas recirculation using an intake CO<sub>2</sub> analyzer.



### Experience

Our capabilities include emission certification and mileage accumulation dynamometers.

50 hp ATV/Motorcycle

- Certification Chassis
- Durability Chassis

Includes confirmatory and production line testing (PLT) and certification requirements.

### The Intertek Advantage

Intertek Carnot Emission Services is a branch of Intertek and was founded in 2002 as a research and development facility specializing in the offroad engine industry. The offroad engine industry produces exhaust emissions that are regulated by the Environmental Protection Agency (EPA) and California Air Resources Board (CARB), Environment Canada, European Union, and other regulating agencies. Reductions of exhaust and evaporative emissions require extensive engine research, development, testing, durability, and certification services to meet both government and consumer needs.

Our customer-focused staff has a proven record of being very responsive to customer needs and special testing demands. Intertek is a leading provider of quality and safety solutions serving a wide range of industries around the world. From auditing and inspection, to testing, quality assurance and certification, Intertek people are dedicated to adding value to customers' products and processes, supporting their success in the global marketplace. Intertek has the expertise, resources and global reach to support its customers through its network of more than 1,000 laboratories and offices and over 35,000 people in more than 100 countries around the world.

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