

Testing Services

Light-Duty Chassis

EPA and CARB Emissions Certifications Testing



ESW America, a division of ESW Group, is a leading independent emissions testing company based in Montgomeryville, PA. Our state-of-the-art Light-Duty Chassis (Motorcycle/ATV/UTV) testing facility is equipped to perform a wide variety of EPA, CARB and EU compliant services. Our facility is staffed by an experienced team of highly skilled test engineers, technicians, and fabricators. With a combined total of over 30 years experience, ESW America performs EPA and CARB emissions certification testing, durability testing, performance testing, and fuel economy testing for a wide variety of engines and chassis.

ESW America Advantages

- Mustang AC-40-ATV/UTV chassis dynamometer to perform EPA certification tests, catalyst R&D, and emissions durability/mileage accumulation tests
- Test cell specifically designed for motorcycle, ATV, and UTV testing
- Test cell usable for R&D, durability, and certification testing
- Testing applicable to 40 CFR Pt. 86 SubPt. E & F, Pt. 1051, EU 2002/51/EC regulations
- EPA, CARB, and EU recognized facility for performing emissions verification test protocols
- Accommodates a wide range of motorcycles / ATV classes with various road load power
- Integrated test system with flexibility to run any test cycle
- Quick engine set-up and switch system minimizes time and cost

Emissions Capabilities

- On-Road Scooter Testing: Class I-A (less than 50 cc), Class I-B (50 to 169 cc)
- Motorcycle Testing: Class II (170 to 279 cc), Class III (280 cc and over)
- Off-Road Testing: Quads, ATVs, Side-by-Sides, and Utility Vehicles
- Full-flow CVS dilution tunnel, selective 600 CFM or 400 CFM flow rate
- Emissions measurement: NO_x, NO₂, CO, CO₂, THC, and CH₄
- Bag sampling capability
- Continuous sampling and data collection capability



LIGHT-DUTY CHASSIS TESTING

Mustang Chassis Dynamometer

Wide 20" diameter single-roll accommodates up to 75" wheel-to-wheel

Unique split roll design for motorcycles and ATVs

40 HP AC dyno simulate a wide range of Road Load Power (RLP) including Class I, II, III up to 100 km/h

Controlled test cell ambient, variable-speed vehicle cooling fan

Test Cycles

EPA 3 Bag FTP test on UDDS cycle

European WMTC test cycle

EPA 11-lap durability cycle

Fuel economy testing

Custom test cycles for R&D testing



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