

SGS SHOCK ABSORBER TESTING

Located just north of Detroit, our ISO 17025 accredited facility in Troy, MI is capable of performing servo-hydraulic, shock and vibration testing. A leader within the industry for testing and engineering services, SGS serves customers in a wide range of industries including; automotive, off-road, heavy truck, aerospace, power sports, marine and military. Through investments in technology, the use of flexible equipment, and collaboration with our network of SGS labs, we work hand-in-hand with our customers to create accelerated lab-based testing methods that support shorter product life-cycles in order to bring products to market quickly and efficiently.



AVAILABLE EQUIPMENT & SUPPORT

- Three dedicated shock absorber test stands capable of testing sample sizes of six simultaneously
- Two purpose built shock absorber test stands designed to support large vehicles, heavy trucks, off-road vehicles and military applications
- Multiple high performance test rigs with speeds in excess of 5.0 m/s
- Anechoic chamber for noise evaluations
- Control systems that support damper software and real-time testing
- 1000 GPM hydraulic pumping system
- All tests can include cooling jackets, side loading, data collection and data acquisition
- Dedicated technical staff support is available seven days a week, 24 hours a day



TESTING CAPABILITIES

- High speed valve durability
- High and low speed cycling
- High speed impact
- Damping force characteristics
- Temperature cycling
- Noise evaluations
- Tube static strength
- High speed piston endurance
- Piston rod fatigue
- Static bending strength
- Mounting pin static and dynamic load
- Dust durability
- Oil seal durability
- Muddy water endurance
- Friction testing
- Rebound bumper testing
- Biaxial life cycle
- Gas repulsion
- Impact drop
- Piston rod bending fatigue
- Clevis bracket to cylinder durability

HEAVY DUTY SHOCK ABSORBER TESTING CAPABILITIES

- Heavy duty shock absorber test systems to support military, aerospace, heavy duty, off-road, bus, rail and industrial applications
- Ridged two and four post test frames with 45 kip actuators, +/- 5 inch stroke, and high response servo valves
- Optional hydraulic or pneumatic side loading capability
- Custom enclosures for high and low temperature environmental conditions
- All tests can include water cooling jackets, data collection and data acquisition
- Custom fixture design, build and fabrication capabilities
- Test frames mounted to in-ground bed plates with reaction mass

CONTACT US

To request a quote or discuss your testing needs in detail, please call +01 844 730 4175 or email us.transportation@sgs.com.

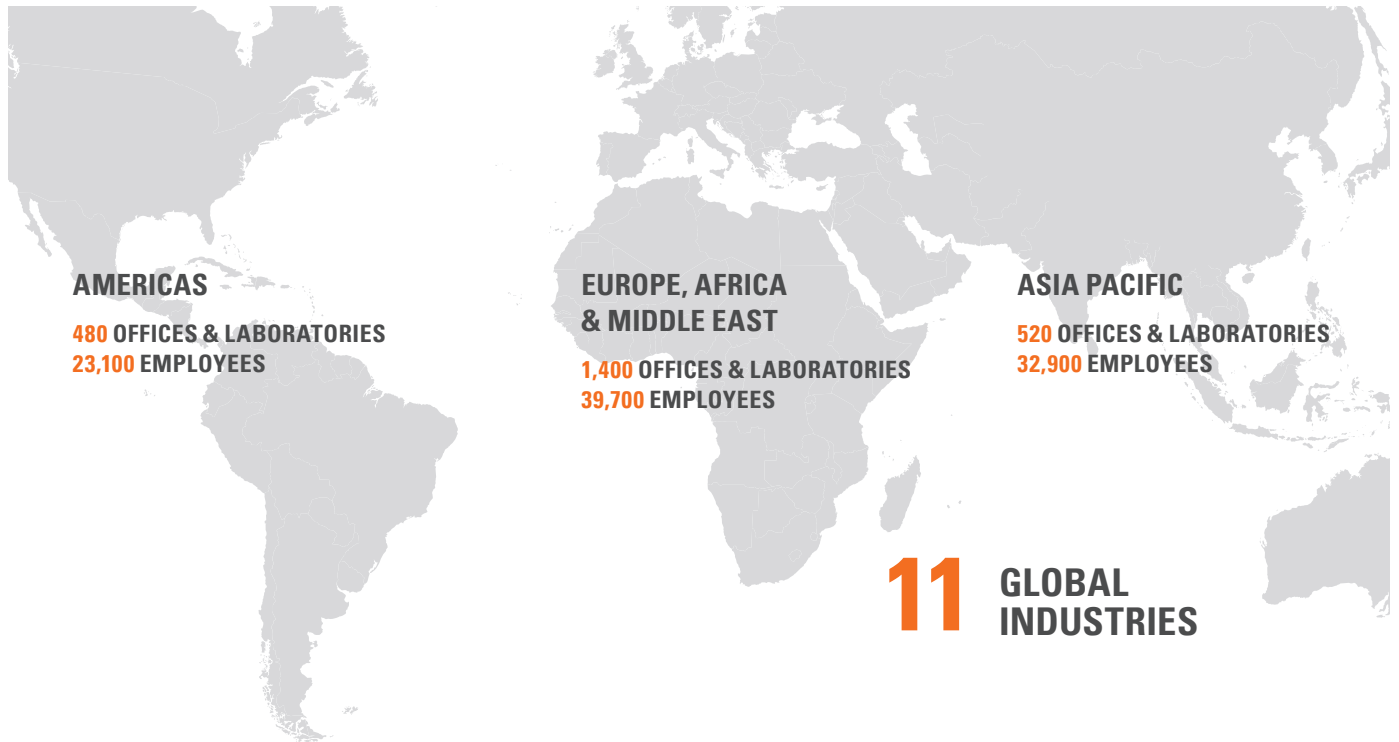


Certificate #1901.01



SGS GLOBAL & LOCAL

95,000 EMPLOYEES | 2,400 OFFICES & LABORATORIES AROUND THE WORLD



GLOBAL SERVICE LOCAL EXPERTISE

SGS TRANSPORTATION

- Automotive
- Aerospace & Defense
- Military
- Marine
- Off-road
- Non-road
- Small Engine
- Power Sports
- Agriculture
- Portable Fuel Containers
- Industry Groups
- Government & Regulatory Agencies

CONTACT US

VARIABLE ALTITUDE ENGINE & VEHICLE TESTING
Aurora, CO

TEST CELL SOLUTIONS, SOFTWARE AND VARIABLE HORSEPOWER ENGINE AND VEHICLE TESTING
Columbus, IN

ROCKY MOUNTAIN HIGH ALTITUDE TEST CENTER
Empire, CO

MILEAGE ACCUMULATION CENTER
Jackson, MI

FUEL & COMPONENT SYSTEMS TESTING
Lapeer, MI

CATALYST AGING & COMPONENT TESTING SERVICES
Taylor, MI

COMPONENT TESTING & ENGINEERING SERVICES
Troy, MI

WHEN YOU NEED TO BE SURE

SGS