

SGS VIBRATION TESTING SERVICES

Located minutes from the Detroit Metro Airport, our ISO 17025 accredited, 17,000 square foot facility in Taylor, MI is equipped with high-frequency vibration equipment and state-of-the-art high-performance natural gas and diesel burners. 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 sport, 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.



AMBIENT, HIGH TEMPERATURE & VIBRATION TESTING

TESTING CAPABILITIES

- Electro-dynamic shaker systems are utilized extensively to evaluate components over a wide range of acceleration levels and high-frequency ranges
- Our lab has 13 electro-dynamic shaker systems with slip tables offering 3 axis vibration with force ratings up to 20,000 lbs, frequencies of 5 to 2,500 Hz and 2 inch stroke
 - Performing sine, random, sine on random, and random on random testing
 - Capable of supporting custom inputs as required
- 48 inch by 48 inch slip tables, 47 inch by 47 inch head expanders of 20 foot overhead clearance allows the testing of large and tall items with high overturning movements
- Electro-dynamic test systems can be integrated with environmental chamber capabilities allowing components to be simultaneously exposed to vibration and extreme temperature cycling
- Instrumentation and data collection using Vibration View software, PDAQ and GAQ technology is utilized



APPLICATIONS

- Exhaust
- Fuel Components
- HVAC
- Cooling Modules
- Interior Cockpit
- Electrical
- Battery
- Driveline

EQUIPMENT

- 13 electro-dynamic shaker systems with slip tables
- 19 high performance burner systems
- Environmental simulation including hot, cold and humidity
- Automated water submersion, spray and dunk-tank systems
- Lead detection systems

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.



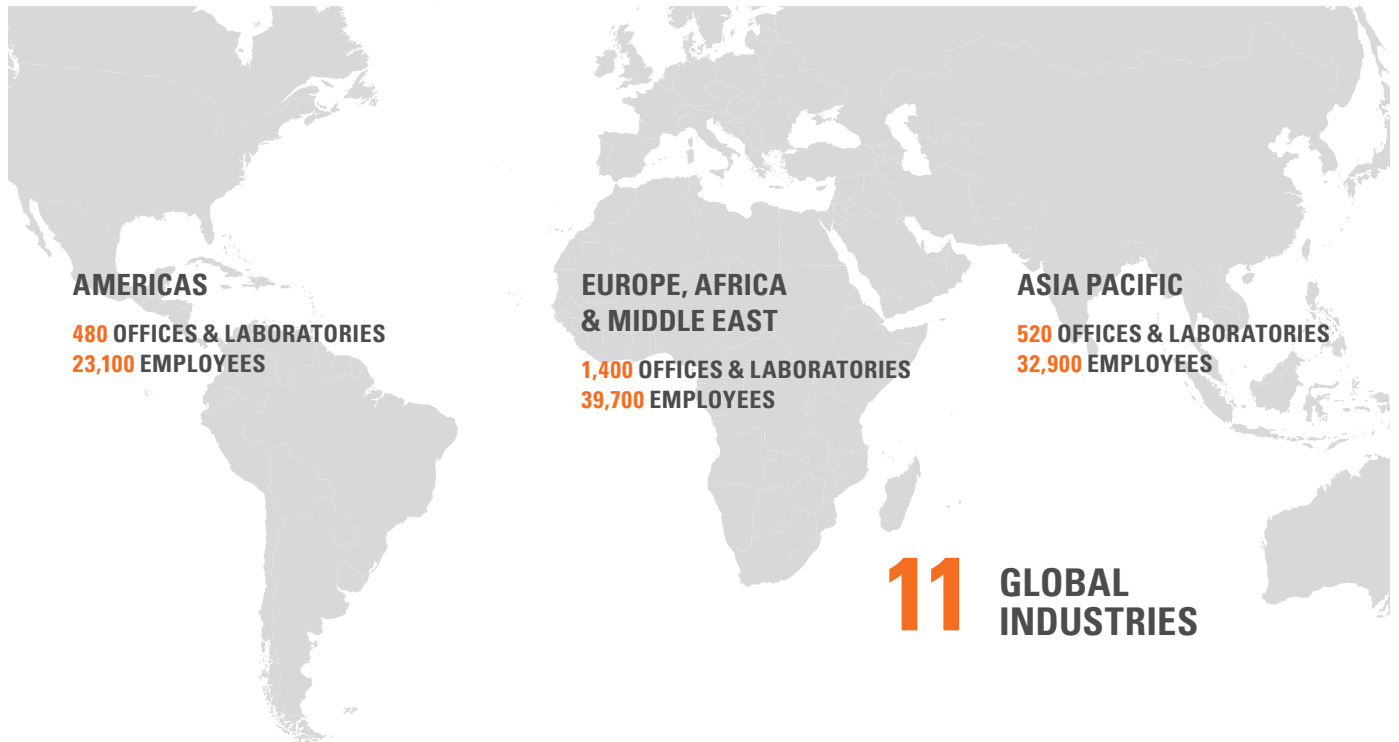
SGS ADVANTAGE

- We have extensive experience testing to the most complex vibration requirements on products that are used within many industries and business segments
- Our 19 high-performance burners can be combined with vibration systems to create a unique test system to support extreme component or system level testing



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