

SEATBELT TESTING

SOLUTIONS FOR THE AUTOMOTIVE INDUSTRY



In the automotive industry, innovation is taking the driving experience to a higher level through continuous improvements in the quality and safety of the vehicle and its occupants.

Modern seat-belt systems include progressive tension that spread the shock of collision forces over time.

Some newer cars feature airbags inside of the seat belts to better distribute collision forces across the passengers' chests in the event of a frontal or side collision.

The competitiveness of your company is significantly influenced by how your design and product meet the market requirements.

REGULATORY DEMANDS

The U.S. National Highway Traffic Safety Administration mandates Federal standards for seatbelt safety to which manufacturers of motor vehicles and equipment items must conform for Federal U.S. compliance. The SGS seat belt testing laboratory in Fairfield, NJ is ISO 17025 accredited to perform testing to all of the required standards and the majority of voluntary standards.

PASSENGER CARS, MULTIPURPOSE PASSENGER VEHICLES, TRUCKS AND BUSES

Must comply with the Federal Motor Vehicle Safety Standard 209 (FMVSS 209) in order to be sold in the US. This mandates that seat belt assemblies in the aforementioned vehicle categories meet specific requirements in the following areas:

- Strength and durability of webbing
- Strength of seatbelt and anchorages
- Performance of buckles
- Performance and durability of the retractor

CHILD SEATS

Are regulated under the Federal Motor Vehicle Safety Standards 213 and 302 (FMVSS 213 & 302) for child restraint systems used in motor vehicles and aircraft. SGS has the capability to perform testing for strength and durability of webbing and buckle performance as well as flammability.

OFF-ROAD WORK MACHINES

Vehicles such as agricultural tractors and construction vehicles also fall under separate industry standards from the Society of Automotive Engineers. SAE J386 relates to operator restraint systems and SAE J2292 covers combination pelvic/upper torso pelvic restraint systems. Compliance to these standards is voluntary as they reflect the industry accepted standard.

THE SGS ADVANTAGE

SGS provides testing solutions for seatbelts, safety harnesses and restraint systems in passenger vehicles, child seats, commercial vehicles, off road work machines and aircrafts.

SGS works with a vast network of labs in North America to optimize your product development cycle.

FOR MORE INFORMATION ON THE FULL RANGE OF SOLUTIONS SGS OFFERS :

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