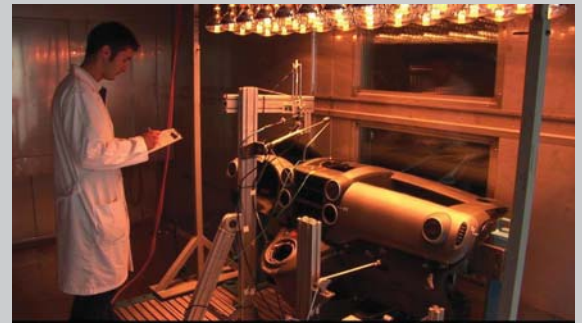


Fatigue and durability

- Fatigue and durability tests on any type of component or part under room temperature or under controlled climatic conditions
- Regulatory tests (ECE 14, 17 and ECE 11)
- Impact and intrusion tests
- Pressure pulse test
- Mechanical characterization tests, fracture strength test, etc.

Equipment

- Servo hydraulic test benches:
 - Simultaneous operation of up to 16 hydraulic actuators
 - Control by load or displacement
 - Any type of cyclic tests (sine, square, triangular) or characterization tests
 - The actuators reach velocities of up to 1,6 m/s and forces of 50 kN
 - Multi-axis testing and time signal reproduction
- Specific benches for regulatory tests ECE 11, ECE 14, ECE 17...
- Pneumatic test benches:
 - Specific benches for door testing (slam test) and pedal testing
- Durability testing in climate conditions (suitable for testing any type of plastic component or composite)
- Development and building of customized test rigs



Products



Body in white components

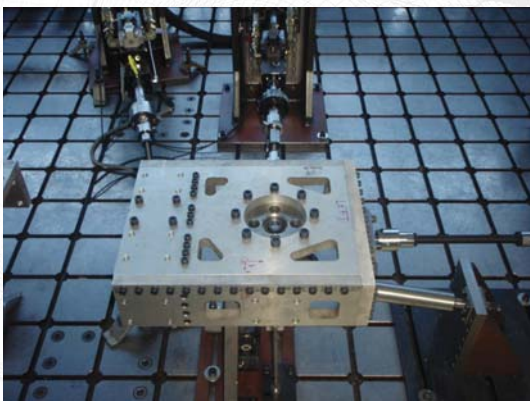
- Doors and hood
- Latches and hinges
- Trailer coupling devices and tow hooks

Interior components

- Seats
- Pedals
- Dashboards
- Pillar and door trim
- Partitioning systems (ISO 27955)

Chassis components

- Axles, engine cradles
- Steering system, control arm, etc.
- Engine components: pressure pulse test on pipes and EGR systems



Project example

- Tests under different load conditions for failure mode reproduction on a component under controlled conditions
- Analysis of fatigue problems on components, solution proposal and validation through testing

Linked areas

- Climatic tests
- Metrology

Accreditations

DMOV_CAR03_0046 ORD
ECE R14
ECE R11
DMOV_CAR00_0299 IR B
DMOV_CAR00_0300 IR B
DMOV_CAR02_0160 IR B

Load test on head restraint
Seat belt anchorage and Isofix strength tests
Door hinges and latches strength tests
Durability test of the trimmed cushion padding
Durability test of the trimmed cushion cover
Durability test of the trimmed seat back