

## Seat Testing

Millbrook's seat test laboratory in the UK delivers prompt, dependable testing to national, international and OEM standards and tailored test requirements. It offers support at each stage of a seat's lifecycle, from development and certification to design validation and in-service testing.

Millbrook's facilities cover a wide range of seat durability, performance, refinement and safety testing to simulate real-world scenarios.

### Seat Safety Testing

- Frontal, rear, side and offset seat impact simulations
- Full scale crash tests including roll-over
- Passenger, commercial, rail, aircraft, healthcare and motorsport vehicle applications
- Homologation tests for competition seats according to FIA standard 8855-1999
- Aircraft seat testing to the requirements of EASA CS 23.562, CS 25.562, CS 27.562 and CS 29.562
- Airbag deployment testing
- Seatbelt anchorage testing

### Seat Performance Testing

- Vehicle Interior Air Quality (VIAQ) and material emissions

### Seat Refinement Testing

- Seat Noise, Vibration and Harshness (NVH) analysis
- Buzz, squeak and rattle evaluation
- Seat comfort testing



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### Seat Durability Testing

- Ingress, egress, jounce and squirm durability tests with automated robots
- Seat cover durability tests
- Seat structures and suspension tests
- Fatigue and fracture testing
- Environmental impact and solar loading tests using climatic chambers
- Vibration testing of components
- Key life testing
- Automated testing of heating systems
- Wiring harness and cable loom testing using shakers, actuators and climatic chambers
- Headrest energy absorption tests

