

ENVIRONMENTAL SIMULATION

VIBRATION AND SHOCK TESTING



YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

Today, components have to perform better than ever. Every material must give its best. Not just once, but over the entire service life of the vehicle. With our experience and our broad spectrum of test and experimental facilities, we ensure the safeguarding of functionality and suitability for service life by means of vibration and shock testing.



We have the right testing equipment for almost everything

Our test laboratories offer universal equipment with various shakers with which we can simulate machine vibrations and carry out vibration and shock tests. We also have the possibility to combine mechanical environmental tests with suitable climatic simulation.

An overview of our services

- Sine and resonance dwell tests, e.g. resonance search or operational durability/fatigue tests
- Random vibration testing, e.g. broadband random vibration, accelerated lifetime durability testing
- Combined testing (Mixed mode)
- Vibration testing with road profile excitation
- Material testing
- Validation of simulation results (CAE)
- Climatic vibration testing (Vibration, temperature and humidity)
- Shock testing
- Squeak and Rattle investigations (< 10 kg)
- Design and construction of test fixtures (welding and aluminium milling test fixtures)
- Measurement of dynamic responses in the form of acceleration, strain and force
- Tests according to shock response spectrum (SRS-Test)
- Functional monitoring of the test object under dynamic load
- Long-term testing with variation in temperature, humidity, vibration profiles, supply voltage and temperature regulated cooling fluid supply.

Our test facilities:

Wolfsburg, Fulda, Ingolstadt, Böblingen, Munich, Puebla (Mexico)

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