



Akkreditierungsstelle D-PL-13119-02-00



COMPONENT TESTING VIBRATION TESTING

In our modern vibration test laboratory we test your products regarding their behavior and reliability during vibration and shock loading according to standards. We determine operational stabilities of materials and components as S/N curves.

Our comprehensive service portfolio

Vibration testing

Sine sweep, random, overlapped stimulations, resonance dwell

1...3500 Hz Frequency range to 60 kN Force vector Test acceleration up to 140 a

Shock testing

Half-sine, sawtooth, trapeze, shock response spectrum (SRS) a.o.

Peak acceleration 200 g 1 ... 50 ms Shock duration

Specimen mass

horizontally stimulated up to 2000 kg vertically stimulated up to 1000 kg

Climate testing

1 m³ Useable volume up to

-70 ... +180 °C Temperature range 10...98 % Relative humidity -80 °C ... +220 °C Temperature shock

Vibration and shock tests also combined with temperature and humidity loading

Typical test standards

Environment

DIN EN 60 068 Environment tests DIN EN 60 721 Classification of environment conditions

Aerospace

MIL STD-810 Test Method Standard for Environmental **Engineering Considerations and Laboratory Tests** RTCA/DO-160 Environmental Conditions and Test **Procedures for Airborne Equipment**

Rail vehicles

DIN EN 61 373 Equipment of rail vehicles

Road vehicles

ISO 16750-3 Road Vehicles - Mechanical Loads VW 800 00 / VW 801 01

Electrical or electronic components in vehicles VW 802 00 Attachment parts, body attachments **BMW GS 95003**

Electric-/electronic-assemblies in vehicles

Transportation and packaging

DIN EN 60721-3-2 Transport DIN EN ISO 2247 Ready-to-ship packages ETSI EN 300 019 Telecommunication

Our competences

- Accredition for vibration testing according to standards
- Flexible accredition for modification and new development of test procedures
- Long-standing research activities in the field of material science and testing
- Complex cooperation with other test laboratories in our company
- Sonic Fatigue Test
- Development accompanying validation tests
 - Vibration testing with temperature
 - Pressure pulse testing
 - Burst pressure testing
 - Probit test
 - Determination of Wöhler lines
 - Stair case method
 - Fuel resistance
 - Temperature shock
 - Climate testing
 - Leak test















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