



Waterproofness test: with a powerfull jet of water

Material testing

- ◆ Tensile and compression testing up to 50kN
- ◆ Salt Fog Test
- ◆ Pressure Test up to 40 bar
- ◆ Low pressure Test (under temperature)
- ◆ Cross cut test
- ◆ Protection test



measurement with an electronics cabinet

Additional services

- ◆ High voltage test in the range of 5500 VAC and 7000 VDC
- ◆ Shore hardness measurement
- ◆ Airborne-noise and structure-borne noise measurements

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The „Deutsche Akkreditierungsstelle GmbH“ certifies that the environmental testlab

ATLAS ELEKTRONIK GmbH

Umweltsimulationszentrum

Sebaldsbruecker Heerstrasse 235, 28309 Bremen

has the competence according to DIN ISO/IEC 17025:2005 to do tests in the following sectors:

Climatic, shock and vibration, special tightness- and material-testing, IP-protection, high voltage, airborne- and structure-borne noise, flow rate, corrosion for systems, equipment and components

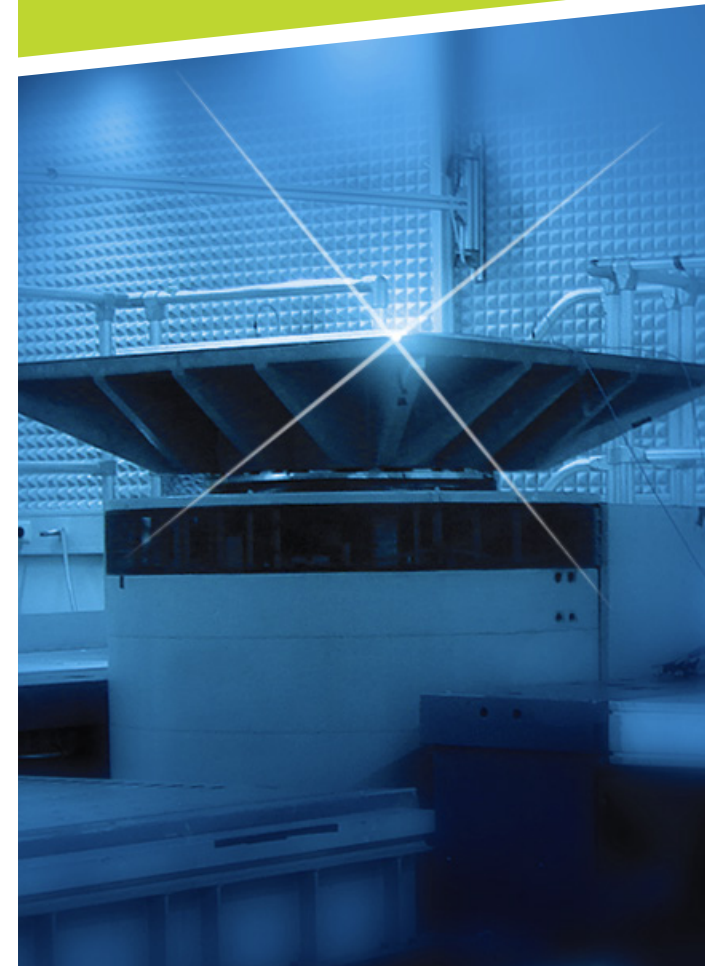


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ENGINEERING ANSWERS



Environmental Simulation. Umweltsimulation.





Vibration test: Aerospace components

Vibration tests

- ◆ Simulation of vibration and shocks
- ◆ Electrodynamical exciter for a frequency range till 3000 Hz
- ◆ Maximum double amplitude = 3 inch
- ◆ Maximum force vector = 179 kN (Sine and random)
- ◆ Maximum force vector = 445 kN (Shock)



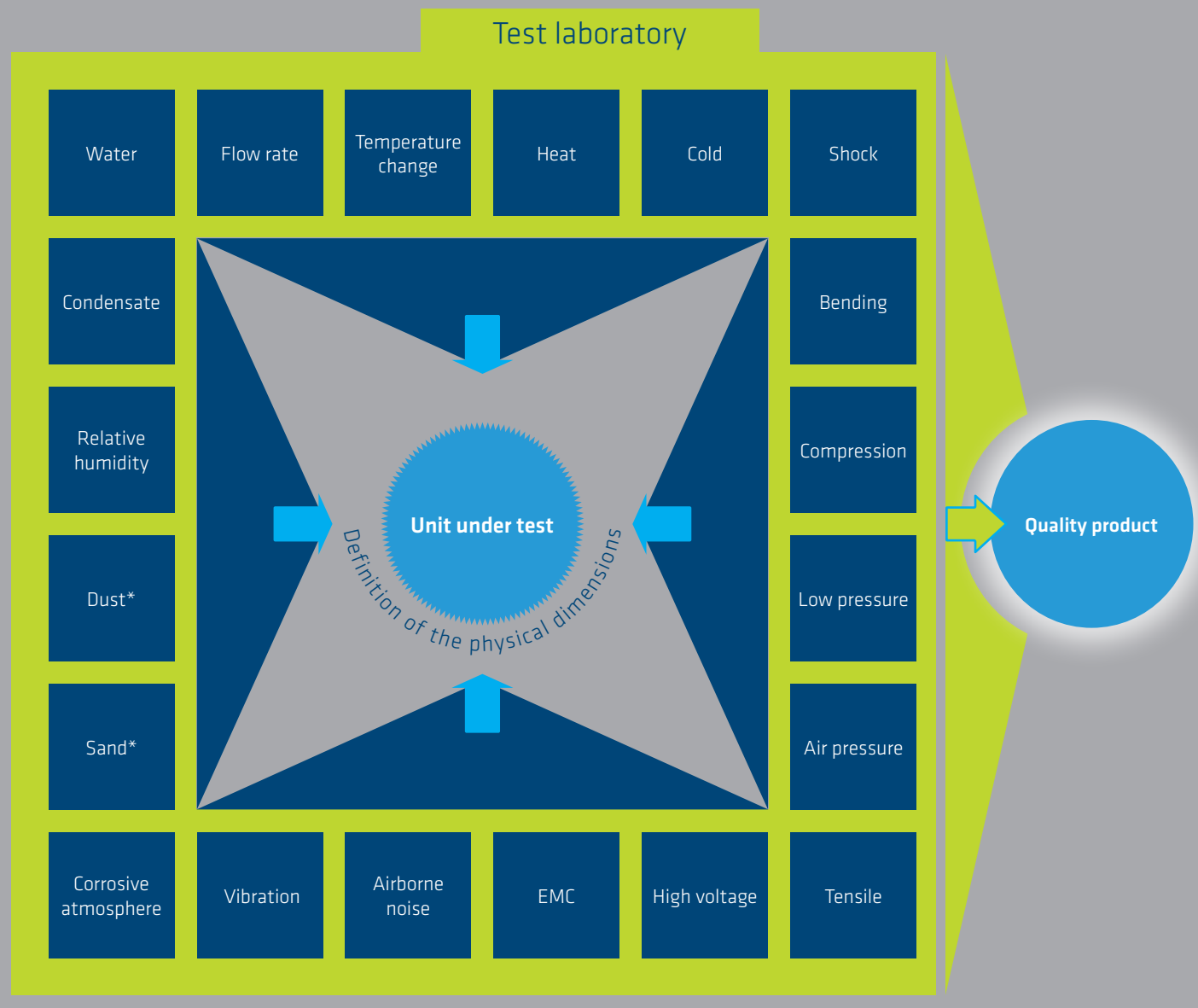
Climatic test: Street finisher

Temperature- and climatic tests

- ◆ Simulation of temperature- and climatic-conditions
- ◆ Climatic chambers from 0,5 m3 till 140 m3
- ◆ Temperature range from -75°C till +200°C
- ◆ Temperature change rate till 15 K/min
- ◆ Climatic range from 10%rh till 98%rh

Environmental simulation in the accredited laboratory of ATLAS ELEKTRONIK

Environmental simulation centre



Environmental simulation is not ready-made. For each product an individual test program is necessary.

As you know your product the best, we will develop, together with you, the optimal test plan. You can use our knowledge and experience we made during the last decades.

* In cooperation with our partner laboratories