



Innovation is our
passion.

TESTING LABORATORY

Environmental simulation · Battery-Testing · Special test setups

ENVIRONMENTAL SIMULATION TEST LAB

In our test laboratory we simulate environmental influences to which your products can be exposed.

You have the possibility to test your parts and components as well as materials with regard to their quality requirements and to create weak point analyses.

We are up to date in the field of e-mobility and can subject large batteries as well as e-motors and inverters to a complete validation in-house. CAN control or programming, driving profiles and parameter tests with currently 1200 V and 400 kW are possible in all areas.

The test laboratory is equipped with state-of-the-art facilities. In addition to various compact systems, the IP range also includes a splash water chamber for components up to 3 m high and a dust chamber with 18 m³ volume.

For immersion tests up to 60 m diving depth we have a pressure vessel with 1400 mm diameter prepared.

With state-of-the-art temperature, climate and corrosion test chambers, we are able to meet the latest requirements and can also offer climate change tests for example according to the VDA guideline. Corrosion tests according to VOLVO, GMW or Nissan specifications are also possible. Climatic chambers up to 55 m³ test space volume are available for large components.

A new temperature immersion shock system enables an automated test sequence for test specimens weighing up to 1000 kg. In the field of vibration, all systems are equipped with climatic chambers. Temperature changes up to 10 K/min can be realized.

Of course, we also offer customer-specific tests according to your requirements. We will be happy to submit an individual offer to you. Whether standard tests or customized tests - we are your competent partner when it comes to environmental simulation.

RANGE OF SERVICES

The following test methods are available to our customers in our test laboratory

E-Mobility Test

for batteries, motors and inverters
Parameter tests

Vibration tests

Sine, random
mechanical shock with or without climatic overlay

Climatic stress

Climate and temperature tests
temperature shocks
Sun simulation

Corrosion tests

Salt fog and condensation water tests
Mixed flowing gas

IP protection classes JIS, UL50E

Water and dust tests

Also for large batteries

Customized tests of all kinds

Dimensioning and construction of test facilities
Realisation of test procedures according to customer specifications
Testing of active test specimens
Mechanical and electrical testing
Insulation resistance and dielectric strength measurement
Measurement data acquisition and evaluation, etc.

TESTING LABORATORY FOR ENVIRONMENTAL SIMULATION

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