

# E-LABORATORIES

## TESTING ELECTRICS AND ELECTRONICS



### YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

Technical products are subject to extreme loads in the course of their life cycle. That is why the LV 124 is one of the most important standards for manufacturers of electronic automotive components. The tests it contains represent the load that these components may have to endure during their life cycle. The challenge with such a test is the simulation of complex on-board networks under a wide variety of environmental conditions, the monitoring of the inputs and outputs of the test objects, the simulation of the field buses such as Flexray, LIN or CAN as well as a corresponding analysis and evaluation.

All E-tests which are described in the LV 124 standard can be selected individually and combined in a desired test sequence. Hence, it is always possible to fully configure and customize test sequences with focus on a specific product to achieve highest benefit for the customer.

In our E-laboratories, we test all electrical and electronic components in mechanical-static operation including water-cooled components, e.g. electric motors, batteries, battery junction boxes, on-board chargers, DC/DC converters, control devices of all kinds, fuse boxes, contacts, plugs, switches and cables.



#### An overview of our services

- Areas of competence
  - Cables & lines
  - Connectors & contact systems
  - Electrical components
  - Electronical components
- Tests according to LV 123 and LV 124
  - Electrical tests
  - Mechanical tests
  - Climate tests
  - Chemical tests
  - Life tests
- Modular test benches (LV, HV) for component and function testing
- Electrical life and environmental tests
- Validation of (HV) components under real conditions

#### We have the right test facility for almost everything

Our test laboratories offer universal equipment with e.g. over 100 different climate chambers and cabinets for temperature tests and various shakers for vibration and also shock tests.

#### Our test locations are:

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

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