



Add value.  
Inspire trust.

## Component Testing

Climatic tests  
Material tests  
Strength tests  
Airbag tests  
Consultancy

### TÜV SÜD

is a world-renowned company in the areas of consulting, testing, inspection, certification, type approval, and training in all sectors of industry and services.

As an independent approval and testing organization we have been active in the automotive industry for more than a hundred years. Using our experience, we bring top-level innovative solutions.

As your end-to-end partner, we will accompany you through the entire process of new product development: from initial design analyses through testing and assessment of the fulfillment of legal requirements to product approval and launch.

TÜV SÜD laboratories are accredited according to ISO/IEC 17025 and are recognized by respective type testing authorities as authorized technical test laboratories.

### Services

#### We perform

- Development, approval and COP tests

- Tests according to global regulations and standards
- Tests according to specifications and customer requirements
- Instrumentation of samples using special measuring equipment

#### We provide

- Consultancy and analyses
- Development of test and measurement methods
- Development and construction of test preparations
- Experimental support by FE-analysis and computer simulations

#### Climatic Tests

- Long-term climatic tests
- Simulation of parts' aging
- Photogrammetric measurement of samples

#### We test

- Dashboards of road vehicles
- Visible and climate-stressed parts



**Laboratory accredited/authorized to perform tests pursuant to:**

- VW: PV 1200, TL 52296

**Material Tests**

- Tests under ambient and extreme temperature conditions
- Cyclic bending tests in rotation
- Fatigue and drop tests

**We test**

- Wheels
- Vehicle bumpers
- Fuel tanks
- Towbars
- Steering locks

**Laboratory accredited/authorized to perform tests pursuant to:**

- ECE: R34, R55, R116 and R124
- Respective EC/EU standards

**Strength Tests**

- Static and quasi-static strength tests
- Energy dissipation tests
- Strain measurement

**We test**

- Anchorage points for seat belts
- Seats and head restraints
- Dashboards and interior protrusions
- Steering wheels and steering
- Locks, door hinges and door mirrors
- Vehicle doors, roofs and protective frames
- Front and rear bumpers
- Underrun devices

**Laboratory accredited/authorized to perform tests pursuant to:**

- ECE: R11, R12, R14, R17, R21, R42, R46, R55, R58, R62, R66, R73, R80, R93 and R105
- Relevant EC/EU standards
- FMVSS: 214 and 216
- FIA

**Airbag Tests**

- Static deployment tests under ambient and extreme climatic conditions
- Assessment of airbag's interaction with environment
- Analysis of samples

**We test**

- Front driver and passenger airbags (steering wheel / dashboard)
- Front and rear side airbags (backrests / filling)
- Head airbags (inner lining of the roof and pillars)
- Knee airbags (dashboard)
- Special types of airbags
- Seat covers and accessories
- Airbag motorcycle jackets

**Laboratory accredited/authorized to perform tests pursuant to:**

- VW: PV 3545, 3546 and 3550

**Laboratory Equipment**

- Temperature and climatic chambers: Heraeus, WEISS, DYCOMETAL
- Measuring systems: Dewetron , KISTLER
- High speed camera systems: Weinberger, Redlake, IDT  
Software: HuDe, FalCon, DIAdem

**Your Business Benefits**

- One-stop-shop for technical solutions (from testing, certification and technical processing to type approval)
- Tailor-made services driven by customer satisfaction
- Technical expertise, quality and safety
- Worldwide support through a network of specialized centers
- The advantage of costs in Central and Eastern Europe