



Industrie Service

Safety Above the Clouds Starts on the Ground

A Product Information Sheet by the Plant Engineering Business Unit

TÜV SÜD – your strategic outsourcing partner

In the aerospace industry, innovations and their thorough testing are of vital interest. For years, TÜV SÜD experts have been assisting with international research and the design and development, testing, certification and approval of aircrafts, systems and components. They do this both independently and on behalf of their customers. As an impartial partner, TÜV SÜD offers consulting to international aircraft manufacturers, suppliers, airlines, airport companies, institutes and authorities, and identifies profitable solutions.

Ever increasing mobility is accelerating growth in passenger and freight transport, necessitating aircrafts with higher transport capacities and lower noise and pollutant emissions. Globalisation and the increasing cost pressure associated therewith are responsible for some of the challenges of the years to come. In the future, outsourcing and optimised procurement will be key factors of successful product development and marketing.

TÜV SÜD – engine for the aerospace industry

The aerospace industry is an important customer segment of the TÜV SÜD Group. Our specialists offer the latest expertise in the fields of hydrogen and fuel-cell engineering, aircraft structure, compressed gas and process engineering, electronics, risk management, and safety and reliability. Interdisciplinary cooperation among the various departments is channeled through a single customer contact, thus allowing single-source services and ensuring customer-friendly, comprehensive, fast and cost-effective project execution.

TÜV SÜD is fully familiar with the processes and systems involved, whether for design and development support, for quality assurance or certification of helicopters, or for the measurement and testing of the new airbus generation.

Design and development support

- Engineering (FEM/CFD)
- Reliability and safety analyses
- Testing of composite materials
- Electromagnetic compatibility (EMC)

TÜV SÜD Industrie Service GmbH



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Reliable Partner to the Aviation Industry

Quality assurance

- Non-destructive materials testing
- Materials and damage analyses
- Life and environmental-compatibility tests
- HALT (Highly Accelerated Life Testing)
- Lightning protection

Certification

- Safety engineering (emergency chutes, smoke detectors, etc.)
- Components and systems (from safety component to interior fittings)
- Production control at supplier production sites
- Nuclear survivability

More good reasons to join forces with TÜV SÜD

- Longstanding experience with international projects
- Uncompromising commitment to high quality and process orientation
- Maximum flexibility and ability to react at every process stage
- Test laboratory accredited by UKAS
- Accredited (RTCA/DO-160, MIL-STD-461E/462D, EUROCAE/ED-14D, DEF-STAN 59-41, DEF-STAN08-4, DEF-STAN 00-35, MIL-STD-810)
- Global presence
- Attractive cost-benefit ratio
- Broad technological expertise and an international network of experts

Outlook: What you may expect in future

TÜV SÜD will bundle its expertise

Over the next few years, the TÜV SÜD Group intends to bundle its global aerospace expertise, thus creating a unique, international network of experts that is highly effective and flexible.

TÜV SÜD will spearhead progress

Our research specialists are working on fundamental solutions to ensure safe and reliable mobility in the future. We will spearhead future progress, from the design and development of safe and reliable fuel cells, through electric propulsion and operating systems, to completely new vehicle concepts.

TÜV SÜD is always customer-friendly

The aerospace industry has always been a trailblazer where technical innovations are concerned, be it in the consistent use of weight-saving constructions, in safety-technology optimisation, in aerodynamics or in electronics. That's why our work with and on behalf of renowned customers from the aerospace industry is an excellent basis for continuously sharing and deepening our expertise and thus remaining fit for the future.

TÜV SÜD Industrie Service GmbH

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