

Overview of the services the SHT

Consultation

Material selection, component design and sizing, drawing up specifications, feasibility and concept studies and risk analyzes, standards and technical regulations, government-mandated tests, CE marking, quality assurance

Mechanics

Design, designs, calculation, design and 3D simulation of CAD data

Electronics / Mechatronics

Drawing up specifications, circuit design and simulation, layout design, system programming, quality assurance

Production

Precision manufacturing, rapid prototyping, joining technology, quality assurance incl. 3D CNC coordinate measurement

Experimental support

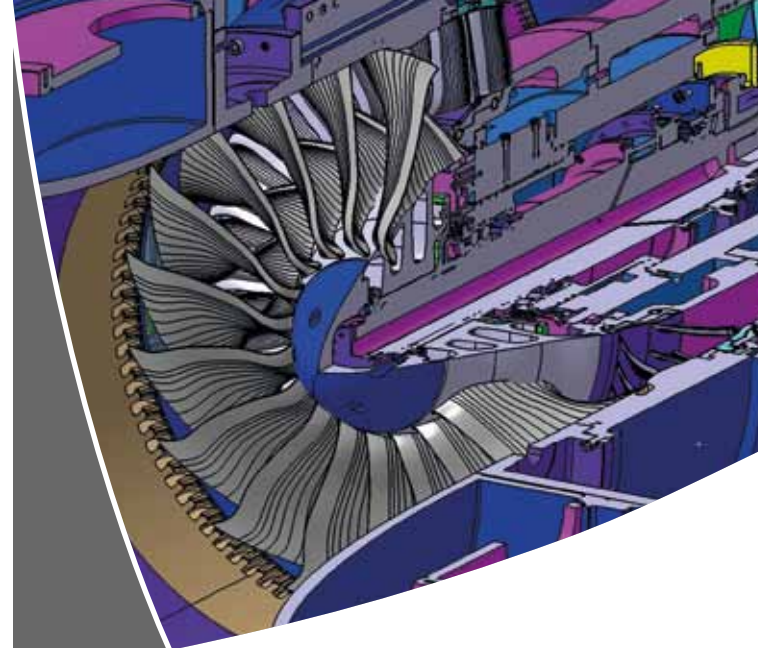
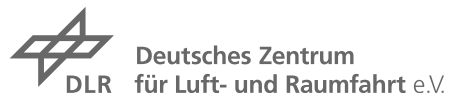
Instrumentation, support for the implementation of measurement campaigns, maintenance and repair work on scientific experimental facilities

DLR overview

DLR is the national research center of Germany Aerospace. Its extensive research and development work in

Aeronautics, space, energy, transport and safety is integrated into national and inter-national cooperation. To its own research, DLR is responsible as a space agency on behalf of the federal government for the planning and implementation of the German spaceactivities. DLR is also the umbrella organization for the largest project management support.

At 16 locations in Cologne (headquarters of the on-Board), Augsburg, Berlin, Bonn, Brownhush, Bremen, Göttingen, Hamburg, Jülich, Lampoldshausen, Neustrelitz, upper pfaffenhofen, Stade, Stuttgart, Dare and Weilheim employs DLR circa 8,000 employees. DLR also operates offices in Brussels, Paris, Tokyo and Washington, D.C



Experimental support

Systemhaus Technik



Systemhaus Technik

The system home automation is the institutions and bodies-tions of the DLR for all technical questions to scientific experimental farms, from consulting, through development and production to assembly in the test facility is available. For the development and implementation of technical systems at DLR has the Systemhaus Technik highly qualified engineering knowledge, powerful and cutting-edge design and manufacturing capabilities and the test procedures.

The SHT is an important part of the technical infrastructure of the DLR. This consists of the organizational units Systemhaus Technik, DLR security, Baumanagement and property management as well as the staff department.

The technical infrastructure supports the DLR as an internal service in addition to the development and implementation of technical systems with outputs of Facility Management, occupational safety and environmental protection. It creates through the use of real-estate-linked, financial and technical resources framework for an efficient and productive research company, and provides for all technical issues as a competent response-partner available. has the technical infrastructure in the DLR a certified management system based on the DIN EN ISO 9001 and DIN EN ISO 14001, which is aimed at a RESISTING digesters improve its services.

Experimental support Systemhaus Technik (SHT)

The Systemhaus Technik (SHT) is a high-tech organizational unit specializing in the production of complex unique. Our aim is to provide design, engineering, unique manufacturing, subsystem solutions and system solutions in perfection

We provide competent system development-ments to customer in the fields of mechanics, electronics and mechatronics.

Long-term experience in the development of prototypes and scientific instruments provide a qualitative excellent service for you

Specializing in the needs and require-ments of academic staff, we design and manufacture your test equipment.

Our entire services form the foundation for expertise bundling / education. This applies to both our external and internal customers in the DLR. With the basis of a broad network and a shared expertise, we customize your documents firsthand.

Services of experimental support

Summary:

- Necessary preparations
- Installation works
- Adjustments at test facilities

Incorporation of instrumentation (e.g., for measuring pressure, temperature, force, torque, acceleration.):

- Design and manufacture of probes
- Selection and integration of Kulite - transducers
- Selection and integration of thermal sensors
- Selection and application of strain gauges
- Installation of actuators and sensors
- Test and calibration of instruments

Accompanied by measurement campaigns in mechanical / electronic field:

- Construction and adjustments of the experimental design
- Installation of Experimental Device
- Adjustment, equipped with electronic components and possibly also through direct participation in the trial operation

Troubleshooting for minimizing interruptions in experiments:

- 24 call of SHT
- Fast support including on-site instrument wide position by SHT

Adjustments to your test systems eg for renovation / modernization.:

- Mechanical retrofits including assembly and adjustment
- Adaptation of the enclosure technology
- Equipped with powerful electronics
- Conversion of measured value acquisition
- Increase the level of automation
- Improving test operation via graphical user interfaces
- Revision and amendment of programs

More details can be found at:
<http://www.dlr.de/sht>

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