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Edited by the Austrian Federal Economic Chamber
in cooperation with the Austrian Federal Ministry
for Transport, Innovation and Technology

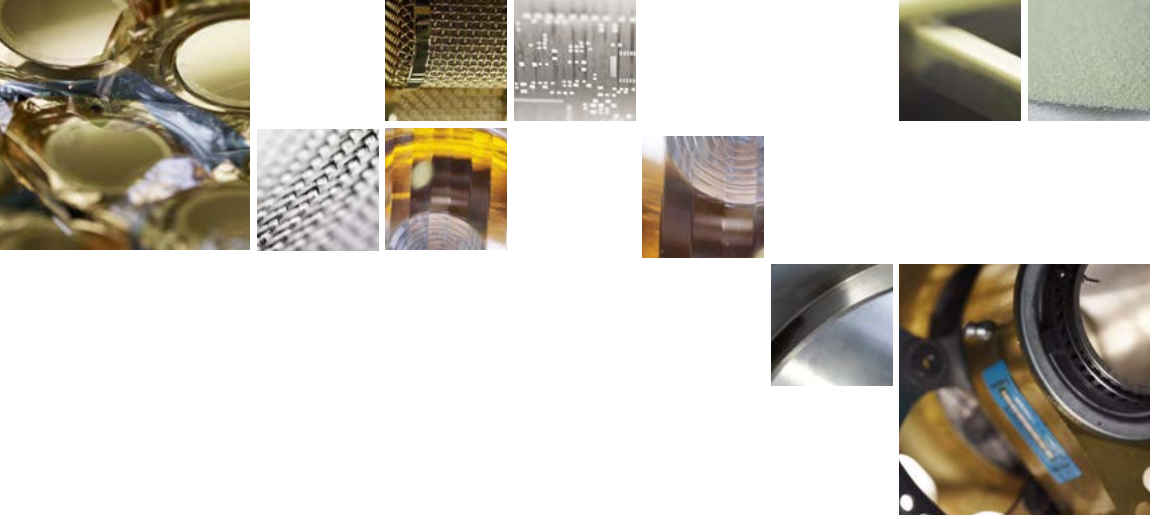


FRESH VIEW

on Aviation Technologies

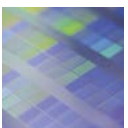
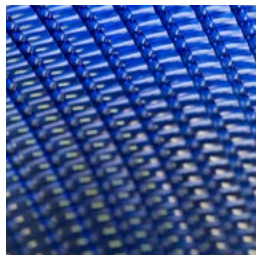
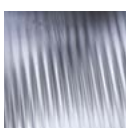
A joint Initiative with the Federal Ministry for Transport, Innovation and Technology

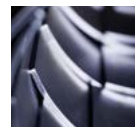
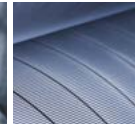
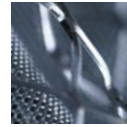
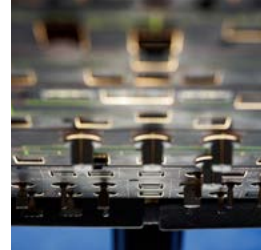
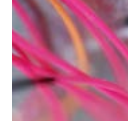




SUR PRIS INGLY INGE NIOUS

www.advantageaustria.org

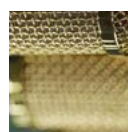
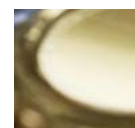
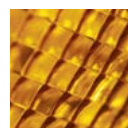




Aviation Technologies



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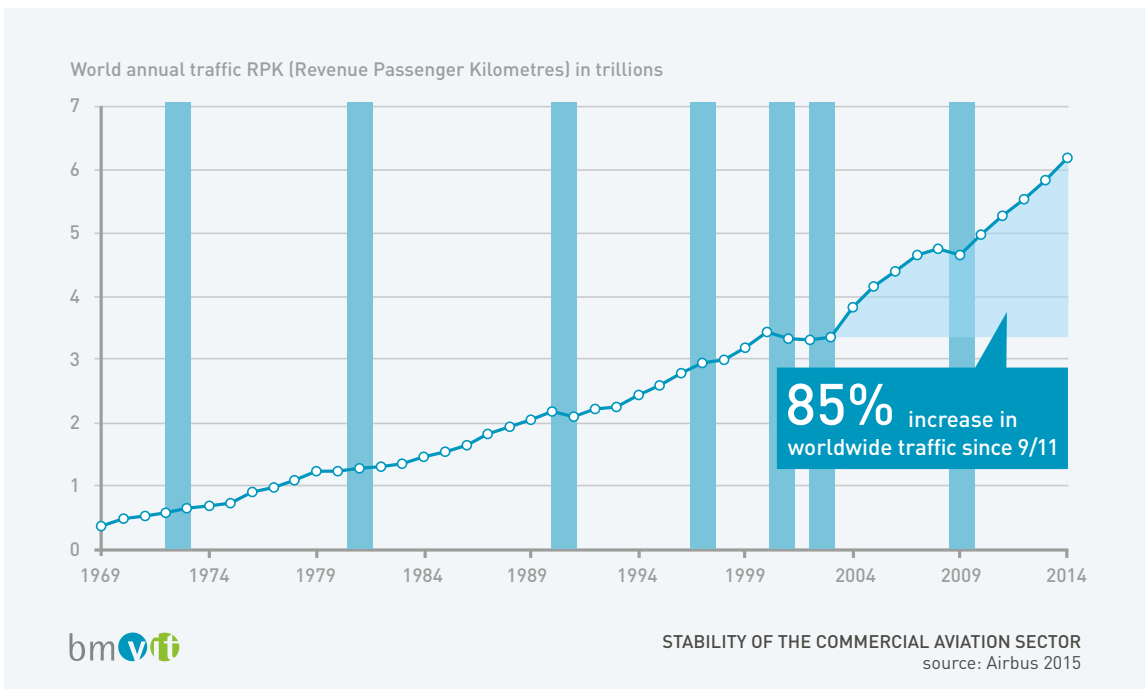




AUSTRIAN AVIATION TECHNOLOGIES

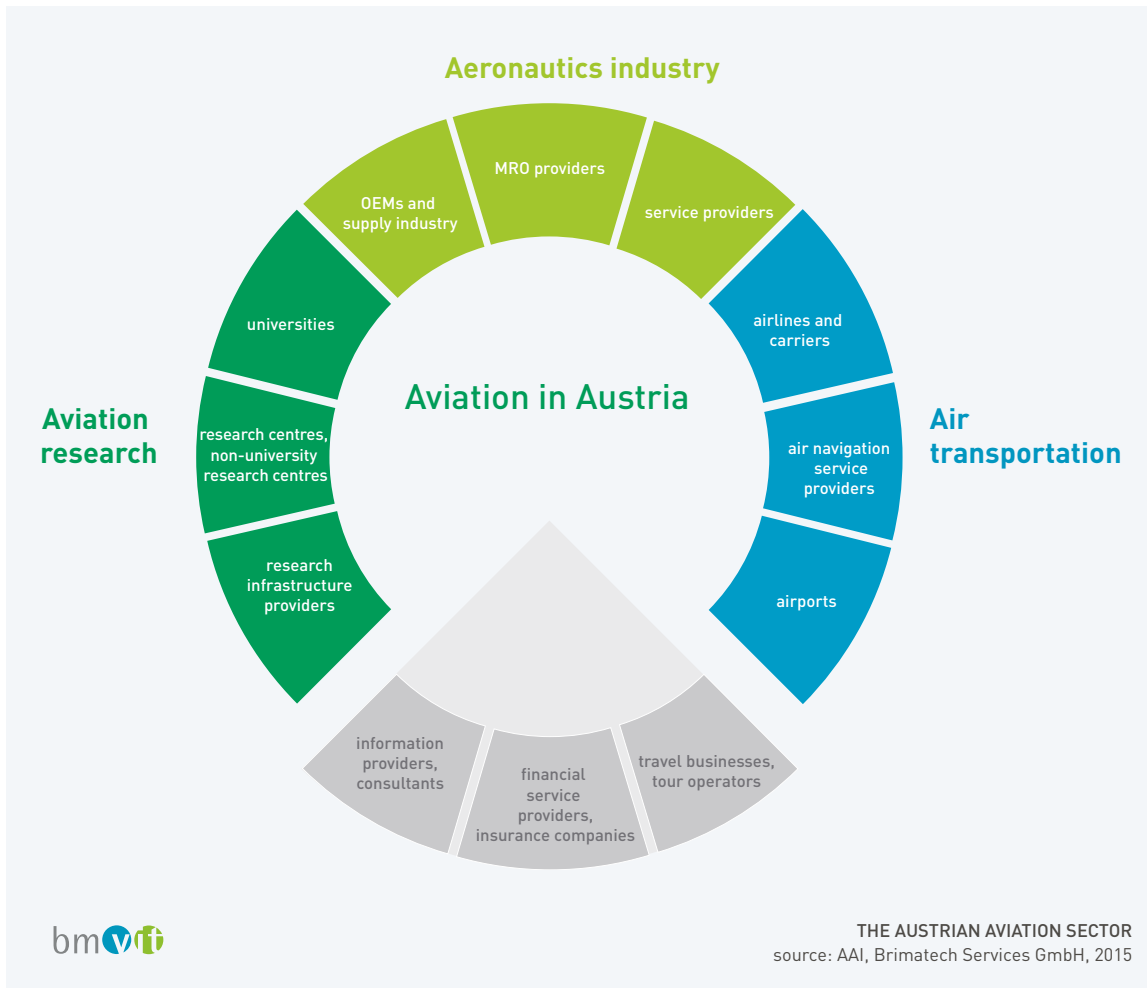
Strategically, the aviation sector is of immense importance worldwide, linking cities and continents and driving global economy. It is marked

by intense research activity and an independence of trends and trade cycles, as well as resilience against oil-related and other crises.



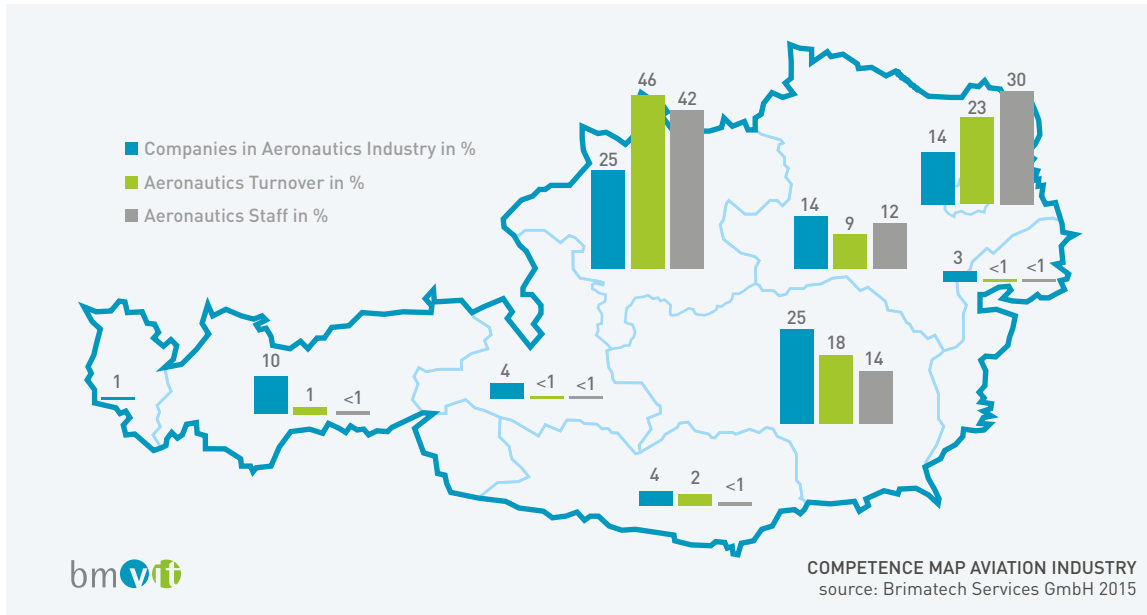
In Austria the research-intensive area of aviation constitutes an important economic factor. In particular the Austrian aeronautics industry (that is, suppliers, maintenance, repair & over-

haul, service providers) is a promising sector that has shown a dynamic development over the last decades.



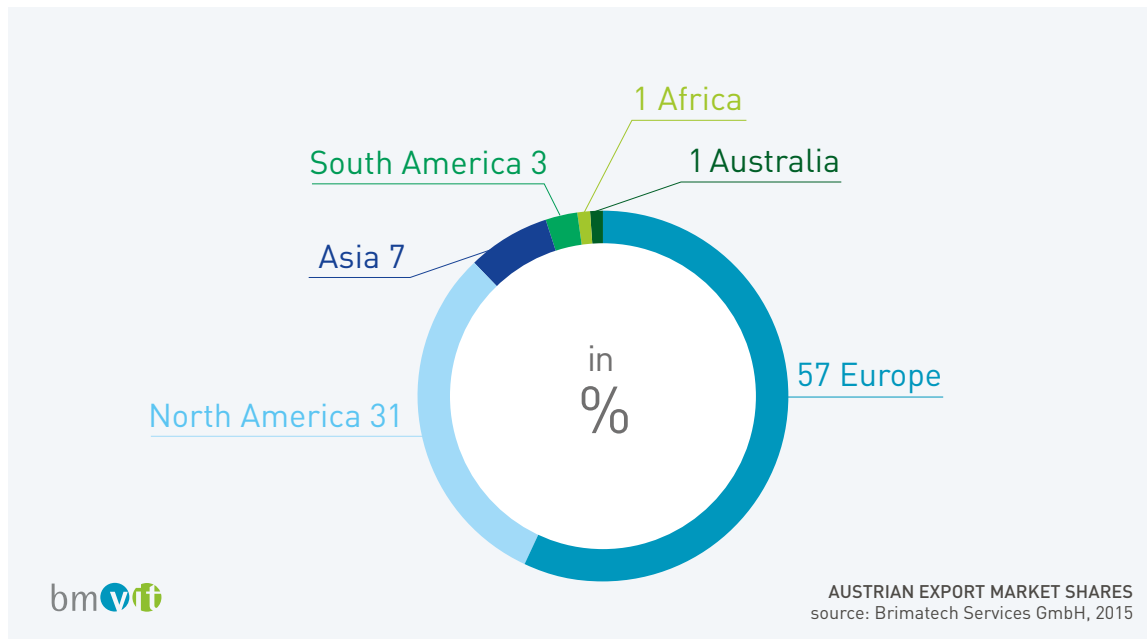
Between 2009 and 2014, the annual turnover of the Austrian aeronautics industry increased from about EUR 1.6 billion to EUR 2.2 billion. This means a growth in sales of 40% in five years (cumulated).

75% of the Austrian companies are SMEs. Overall around 9200 people are employed in the Austrian aeronautics industry, 13% of which work in research and development.



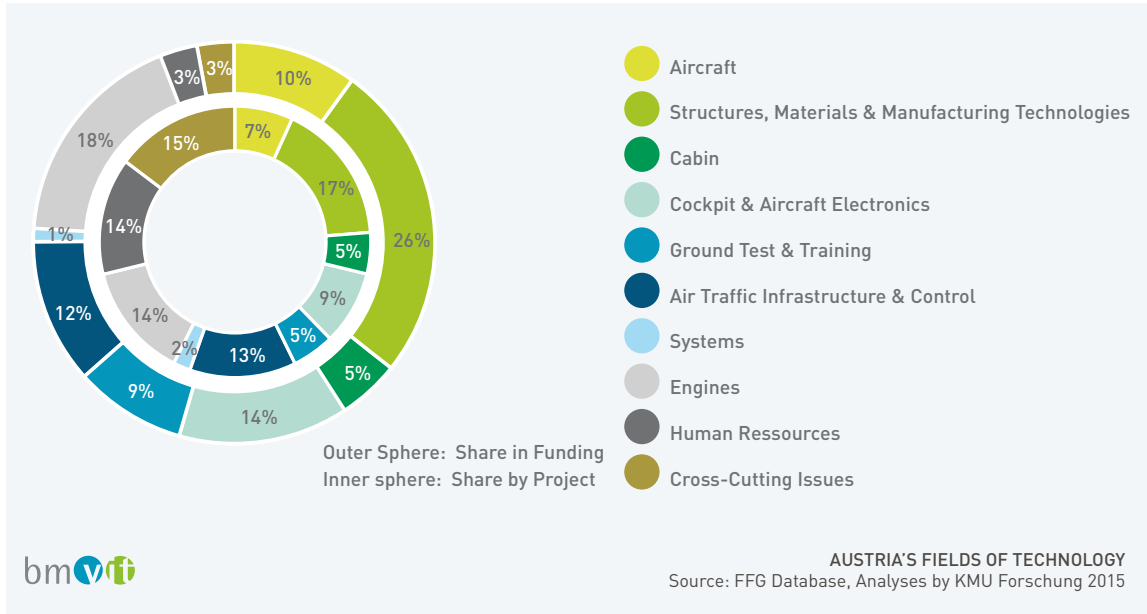
To a large extent, Austria's aeronautics industry is export-oriented, with an average export quota of around 72% – an increase by two thirds

vis-à-vis 2009. The greatest market is currently Europe (57%), followed by North America (31%).



Nationally promoted research in the area of aviation has seen a remarkable upsurge over the last decade, to which the research, technology and innovation programme Take Off, initiated by the Federal Ministry for Transport, Innovation and Technology (bmvit) and managed by the Austrian Research Promotion Agency (FFG), has contributed greatly. Government research aid

of EUR 1 million facilitated an extra production of EUR 5.1 million. Since 2002, aviation projects have been supported with a total volume of EUR 392 million in public funds and private investments. The figure below illustrates the distribution of the budget granted over Austria's specific fields of technology, so called market segments, in the past decade.



Concerning the future development of the Austrian aviation industry, the bmvit and the industries and businesses involved have set themselves three ambitious targets, which are stipulated in the Austrian Aeronautics Strategy 2020+:

- I. In 2030, 15000 staff will generate a turnover of EUR 4 billion in the Austrian aviation industry.
- II. In 2030, the domestic aviation sector will generate a compensation rate of around 80% of European research initiatives to Austria.
- III. In 2030, innovative solutions will contribute significantly to the performance of the Austrian aviation system.

Based on the success of the funding programme Take Off, and in order to ensure that the above mentioned targets will be met, the bmvit re-launched the Take Off programme for the years 2015 – 2020 with a focus on:

- System Integration: Humans, Organisations, Technologies
- Strategic Partnerships: National, Transnational, International
- Capacity and Resource Creation: Traffic, Production, Staff
- Knowledge Development & Sharing: Topic, Process, Application



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AIRCRAFT

This market segment concentrates on innovative developments regarding aircraft as such, as well as on the realisation of new potential areas of application. This predominantly concerns single- and multi-engine light aircraft, sporting and business aircraft, as well as unmanned aerial vehicles (UAVs). With regard to passenger and cargo aircraft, the focus is predominantly on system integration, which is also being addressed by other market segment.

STRUCTURES

This is one of Austria's most dominant segments. It aims at optimising construction elements, components, subsystems and systems for application in the airframe's primary structures. This includes fuselage, wings, empennage, engine hoisting and landing gear. Structure technology has considerable potential for generating an increase in efficiency.

ENGINES

The engine segment is also particularly strong and is specifically oriented towards new or improved propulsion systems and alternative fuels. Research topics here include, amongst others, the increase of thermal as well as propulsion efficiency, or optimising the airflow in high- and low-pressure turbines. The novel aircraft engines that are scheduled to be on the market by 2020 will decrease aircraft emissions by 10 to 15%. From 2025/2030, emissions are expected to be lowered by as much as 40%.

CABIN

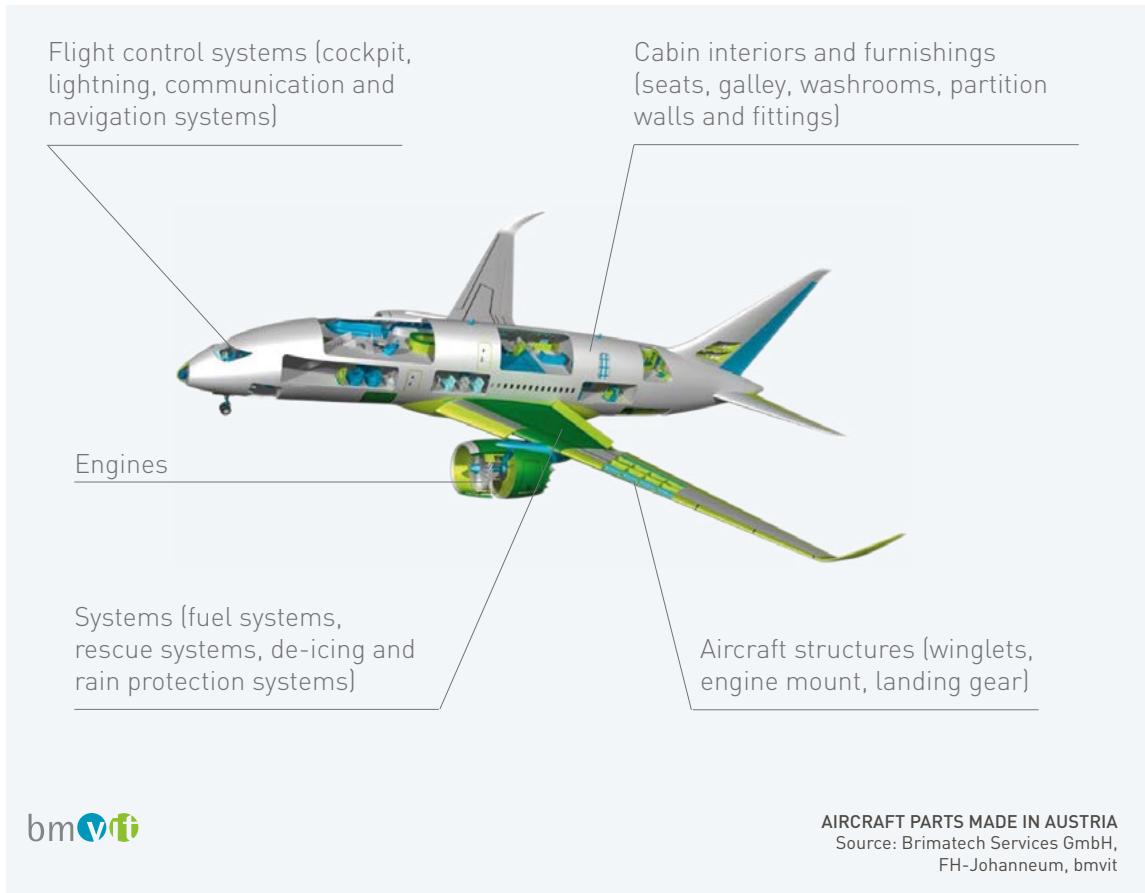
The cabin segment is another strong segment in the Austrian aeronautics industry; companies are working on innovative solutions for on-board information and entertainment. The focus here is on innovations that facilitate a comfortable and barrier-free voyage. A further objective is the integration of entirely new and modern design elements.

MATERIALS & MANUFACTURING TECHNOLOGIES

This is the area which concentrates on new and improved materials, material alloys and coating technology, all which are in ever greater demand. Innovative ideas on intelligent tooling, intelligent production and highly automated assembly are essential in optimising cost efficiency.

COCKPIT & AIRCRAFT ELECTRONICS

In this segment research activities include cockpit equipment such as seats, displays and lighting, as well as a wide range of aircraft electronic systems, such as flight control and management systems, radar and other sensor systems, communication and navigation systems, data recording units, bus systems and mission systems.



SYSTEMS

In this segment research topics range from optimising hydraulics and pneumatics to air conditioning and ventilation to de-icing and rain protection systems. The development of improved ground-based flight control of UAS also falls into this category.

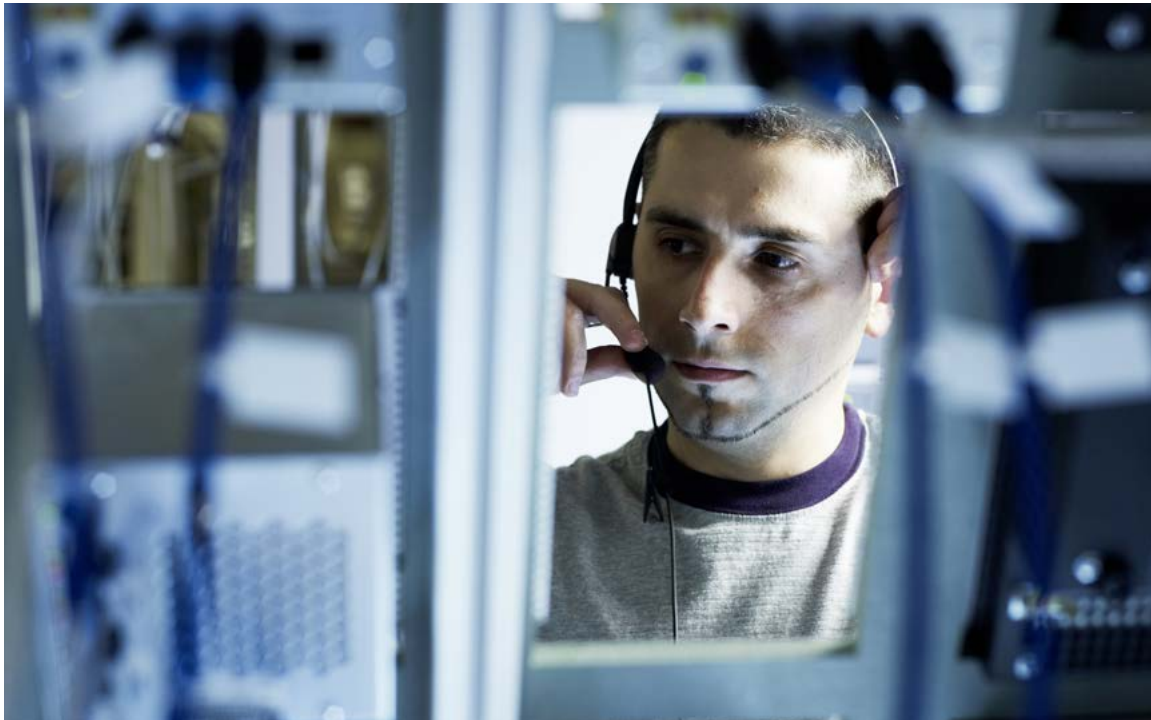
AIR TRAFFIC INFRASTRUCTURE & CONTROL

The growing demand for mobility, the increase in scheduled air transport and the expanding number of flight routes within the EU requires an efficient and intelligent infrastructure in the air as well as on the ground. In this sector research is centred on optimised vehicles and other equipment to be employed on the airfield, new light and way-finding systems, fuel loading and de-icing systems, power supply, communication, location, information systems and system monitoring, as well as new methods of dealing with weather conditions. This segment is the most employment-intensive in the aeronautics supply industry.

GROUND TEST & TRAINING

This segment focuses on the development and production of test facilities, ground test equipment, as well as training devices and flight simulators. Research is being conducted on enhancing their cost efficiency in maintenance, repair and overhaul, with particular emphasis on increasing the service life and the reusability of components, on the feasibility of self-assessment, and on advanced diagnosis with non-destructive testing.

Austrian Ministry for Transport, Innovation and Technology (bmvit) in cooperation with Brimatech Services GmbH



RELATED LINKS

Aeronautics.at | Austrian Competences in Aeronautics Technology
www.aeronautics.at

Austrian Ministry for Transport, Innovation and Technology (bmvit)
www.bmvit.gv.at/en

Austrian Aeronautics Industries Group (AAI)
www.aaig.at

Austrian Industrial Cooperation & Aviation Technology (AICAT)
www.wkoarge.at/en/aicat/home

advantageaustria.org | The official web portal of the Austrian economy abroad
www.advantageaustria.org

Austrian Research Promotion Agency (FFG)
www.ffg.at

Air Transport Net (AirTN)
<http://airtn.eu>

ACstyria GmbH | The Styrian mobility industry
www.acstyria.com

Austrian Advanced Lightweight Technology
www.a2lt.at

Upper Austria Economic Chamber | Aviation focus
www.wko.at/ooe/luftfahrt



OUR WORLDWIDE NETWORK, YOUR ADVANTAGE

ADVANTAGE AUSTRIA, with its about 110 offices in over 70 countries, provides a broad range of intelligence and business development services for both Austrian companies and their international business partners.

Around 800 employees around the world can assist you in locating Austrian suppliers and business partner. We organize about 1,200 events every year to bring business contacts together. Other services provided by ADVANTAGE AUSTRIA offices range from introductions to Austrian companies looking for importers, distributors or agents to providing indepth information on Austria as a business location and assistance in entering the Austrian market.

ADVANTAGE AUSTRIA is part of the Austrian Federal Economic Chamber, and is the official Trade Promotion Organisation of the Republic of Austria.

Benefit from the expertise represented by our global office network, and make the most of the services provided by Austria's Trade Commissioners and their teams.

On the following pages you can find out more about the high quality products offered by Austrian companies in the field of aviation industry and you too can take advantage of the quality and know-how made in Austria, which constantly set new benchmarks for its international competitors.

Also visit us on www.advantageaustria.org and learn more about further Austrian companies, their international presence and Austria as a business location.

As experts in internationalization, we will gladly support you in your search for the appropriate Austrian partners and arrange the initial contact.

Contact us at
www.advantageaustria.org



AICAT – YOUR GATEWAY TO INDUSTRIAL COOPERATION

As an organisation within the Austrian Federal Economic Chamber (WKÖ), the “Austrian Industrial Cooperation & Aviation Technology Group – AICAT” focuses on

- promoting the interests of the Austrian aviation technology branch,
- supporting the visibility of Austrian companies and their skills and know-how in aviation technology at the different tiers of the supply chain and
- positioning the companies within the Austrian aviation technology sector as innovative, qualified and competitive system suppliers in a global market.

THE “ONE-STOP-SHOP”-PRINCIPLE

The major aim of AICAT is to operate as a “One-Stop-Shop” to

- service Austrian and foreign companies in Industrial Cooperation and Aviation Technology,
- introduce Austrian skills to the national and international business community and
- generate an exchange of information about potential business partners and opportunities.

In the area of Industrial Cooperation AICAT specifically fosters

- cross-border cooperation with OEMs and their supply chain in the field of research and development, qualification, system supply and operation.

THE “GATEWAY”-FUNCTION

In order to help matching national and international demands and supply in products, services,

technology & know-how, AICAT offers - free of charge - special services by

- identifying and introducing opportunities and business cases for cooperation,
- facilitating the exchange of information between potential partners and
- establishing contact between partners for individual exchange.

In its role as Industrial Cooperation moderator, AICAT – in close cooperation with the Austrian share – and stakeholder community in aviation technology – initiates activities to link customers and Industry by

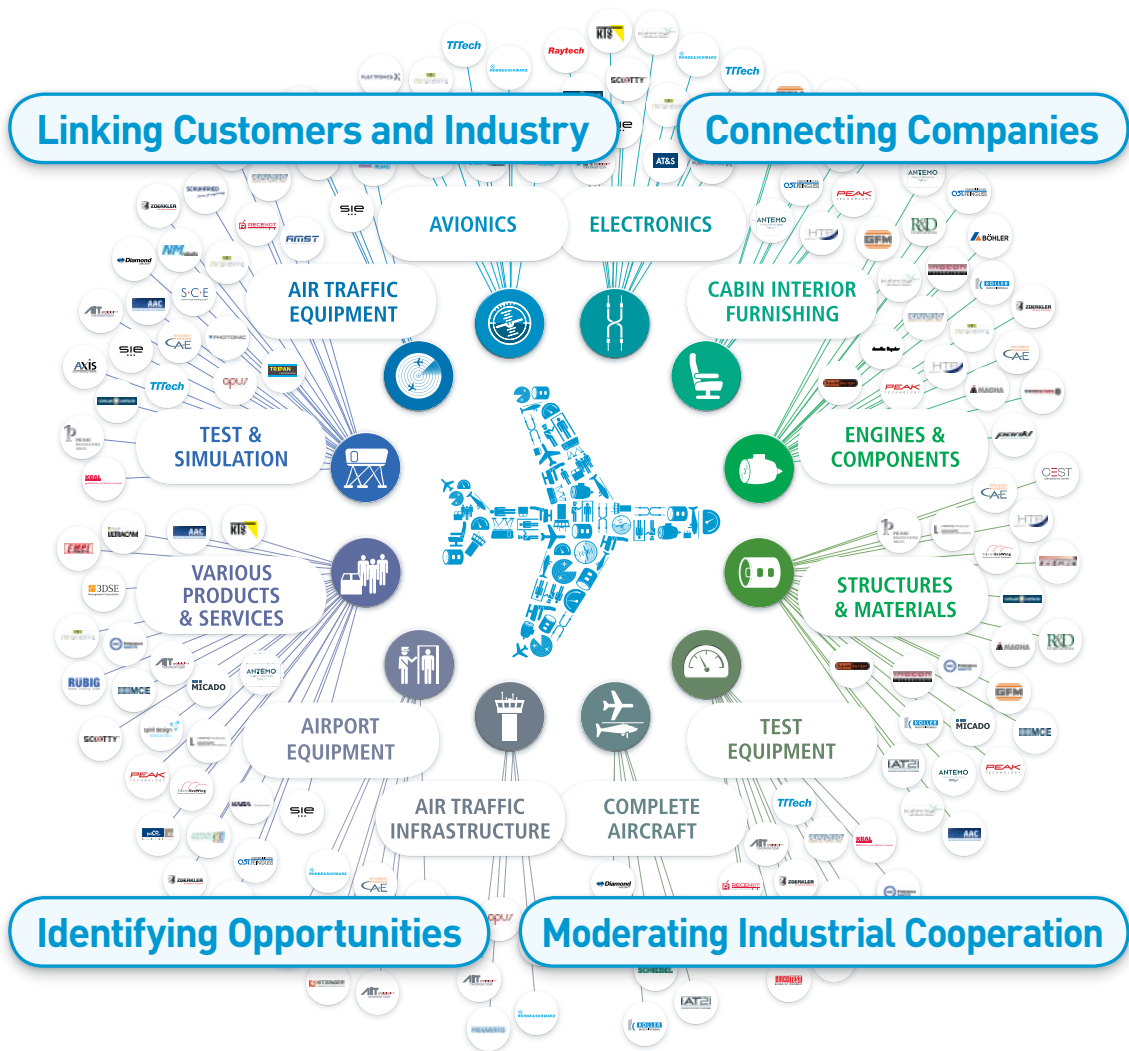
- supporting the production of general information material, e.g. electronic and print media about the Austrian Aviation Technology & Industrial Base,
- providing an information and service hub at the most important international show cases and exhibitions and
- organising and co-organising special B2B formats and events, e.g. technology scoutings, site surveys, in- and outgoing missions, showcases and the annual Austrian Aviation Technology Day.

THE “NETWORK”-ACTIVITY

As an Austrian Federal Economic Chamber (WKÖ) organisation and with all nine regional Economic Chambers as its shareholders, AICAT runs a strong and extensive network reaching out to the entirety of Austrian companies operating in the aviation sector.

Working closely together with ADVANTAGE AUSTRIA – Austria’s foreign trade promotion agency - and its offices all over the world, AICAT is able to deliver tailor-made support to all potential partners, customers and suppliers.

THE “BUSINESS MODEL”



CONTACT

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 Aviation Technology - AICAT

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AICAT – YOUR GATEWAY TO INDUSTRIAL COOPERATION





AAI – OVER 30 YEARS INCUBATOR OF THE AUSTRIAN AERONAUTICS | SUPPLY | INDUSTRY

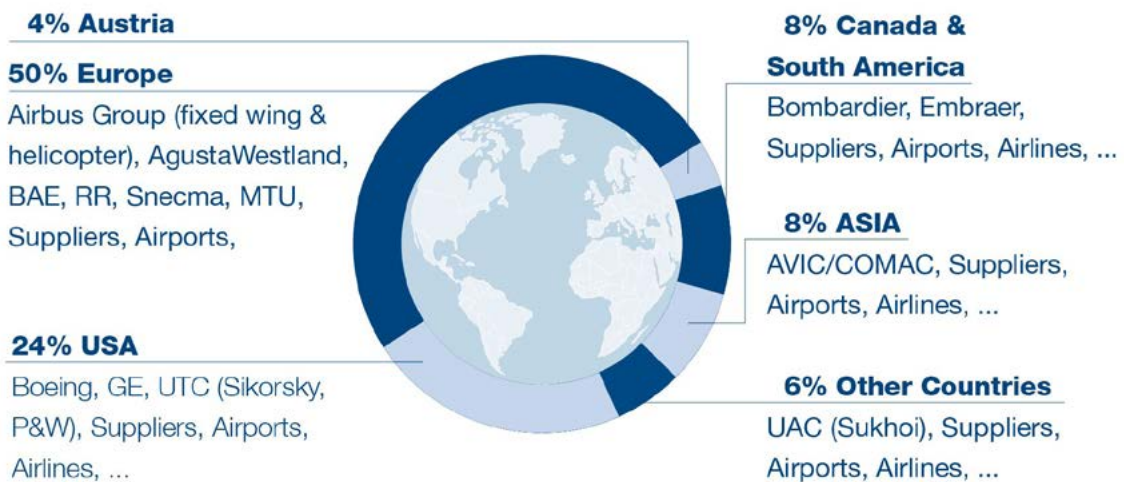
The Austrian Aeronautics Industries Group (AAI), a non-profit organisation of solely voluntary members, is the national association and core of the Aeronautics/Supply/Industry in Austria like BDLI in Germany or GIFAS in France. Its team has been acting as an incubator in this sector for more than 30 years.

AAI represents – on national and international matters – the common interests of its about 35 members: Austrian companies and (research) organisations with proven business activities in the Aeronautics/Supply/Industry and Service sector. Key values of these companies are productivity, quality, flexibility and reliability.

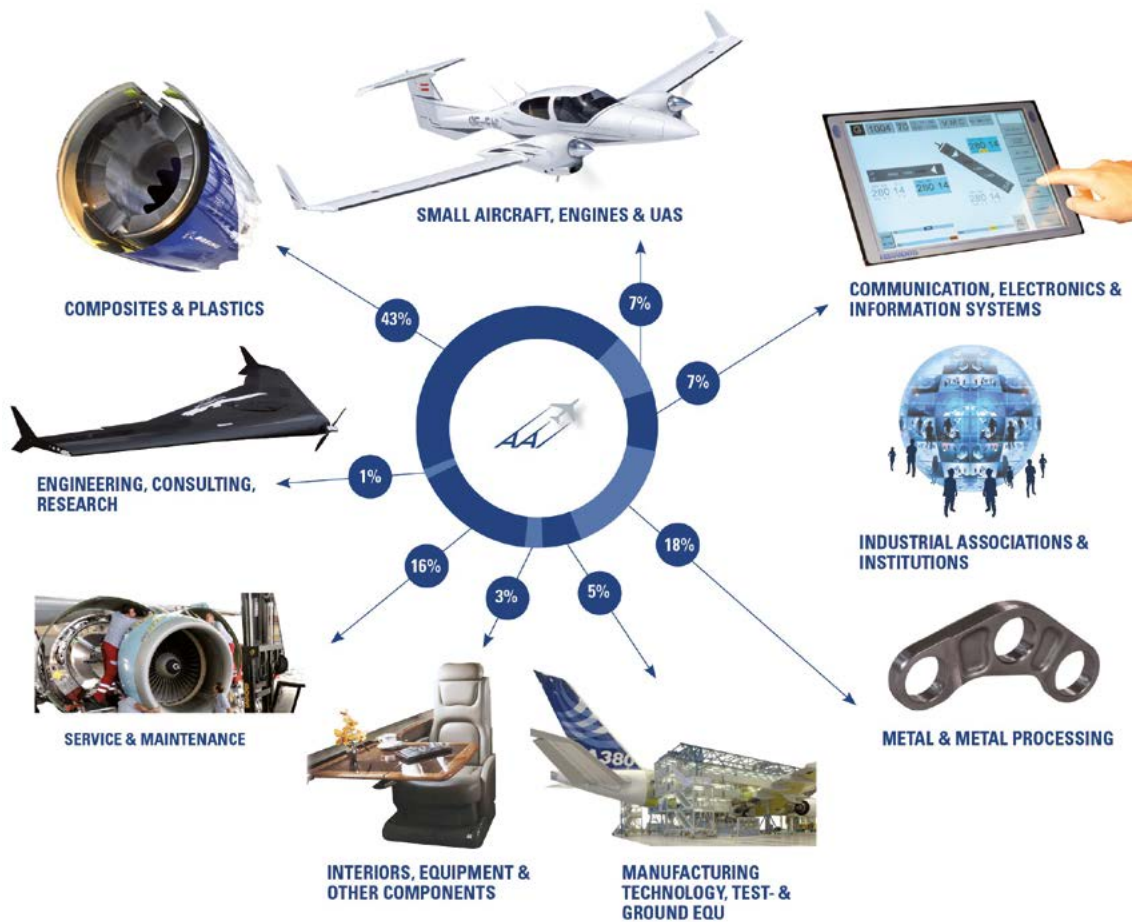
AAI and its members cover more than 85% of the annual aeronautics industry turnover in Austria, and are also members of ASD (Aerospace & Defence Industries Association of Europe), engaged in many committees of ASD and therefore fully integrated into respective European information and decision processes.

The AAI members and their approximately 5.000 employees generate an annual turnover of about 1.8 billion EUR – with an export share of more than 95%. The worldwide markets of our members are depicted below (shares related to the annual turnover of AAI members):

Worldwide Markets of the Austrian Aeronautics/Supply/Industry



KEY COMPETENCIES OF THE AUSTRIAN AERONAUTICS | SUPPLY | INDUSTRY (AAI MEMBERS)



Austria is therefore successfully operating in many niches of the international aeronautics industry and its supply chains. The key activities and competences of our members are shown above. Well known AAI member companies include FACC, Diamond Aircraft, Böhler, AMAG, TTTech, Test-Fuchs, F.LIST, Schiebel, ISOVOLTA or Frequentis.

More details about all our members can be found on our website.

In addition to its events and marketing or networking activities, AAI also offers a wide range of services, including an attractive framework insurance agreement or discounted trainings about regulations and industry standards.

Notable working groups of AAI are its Quality Committee (Austrian 9100-ICOP-Scheme), the ILS-Working-Group (dealing with standards like S1000D) and the AAI-UAS-WG – a group dedicated to Unmanned Aircraft Systems (UAS).

**FURTHER QUESTIONS?
PLEASE CONTACT US ...**

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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT

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8772 Traboch
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E office@4a.co.at
W www.4a.co.at



4a engineering GmbH is a technology-oriented research and development company with a focus on the areas of plastics engineering and materials science. The team consists of highly qualified employees, the majority of whom have an academic background, who have excellent qualities in physics and mechanics as well as materials science.

Technologies and competences

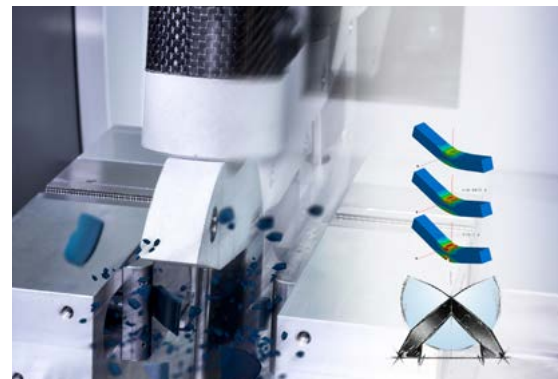
The core competence is the development and optimisation of new products and processes by applying the laws of physics. The use and further development of simulation methods here is an important part of understanding and innovation. With the special knowledge, applied also in lightweight construction, and the many years of practical project experience, 4a engineering is able to ensure a sustainable competitive advantage for their customers.

Products and services in aviation

- development of fibre-reinforced composite components
- structure simulations
- testing of fibre-reinforced composite components



Find us directly at
www.aeronautics.at



4a manufacturing GmbH

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E foglia@4a.co.at
W www.4a-manufacturing.com



The 4a manufacturing GmbH is a company specialized in the production of thin sandwich composites (0.5 - 3 mm of total thickness) for light-weight applications. The company relies on its wide range of experience in combining the use of metals, plastic and fibre-reinforced polymers to produce the best material for all customer requirements.

Technologies and competences

The company's core competence is the ability to process commercial available foam blocks in a highly efficient way and to produce thin foam sheets very cost-efficiently. Combining these foils with the appropriate skin materials, it is possible to create sandwich materials with different properties like high stiffness/weight, high temperature resistance, formability, high damping and FST compliance.

Products and services in aviation

- CIMERA: 0.5 - 3 mm thin sandwich materials with metal or fiber skins
- MILLIFOAM: 0.5 - 3 mm thin foam sheets from PMI, PESU, PPSU, etc.



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Aviation Technologies

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Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT
PRODUCTION

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Heuberger is a surface specialist in the field of non-ferrous light metals, especially aluminium, magnesium and titanium. The scope of applications range from anodising, pickling passivation up to customer-specific applications in surface technologies.

Technologies and competences

Heuberger has established its own headquarters dedicated to the surface technology of light metals where it is possible to develop surface coatings with defined layer properties and to characterise the layers and materials in detail. The focus is on the areas of anodisation and passivation.

Products and services in aviation

- anodisation and coloring anodisation of aluminium parts
- hard anodisation, plasma electrolytic oxidation including ptfе-coating
- passivation and Plasma electrolytic oxidation of magnesium parts
- custom-made surface technologies

Aviation standards and certifications

- ISO 9001:2015



Find us directly at
www.aeronautics.at



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RESEARCH
DEVELOPMENT
PRODUCTION



A global player in the delivery of airport performance, ADB Safegate is aiming to be the first-choice partner for airports and ATC units through its unmatched capabilities in airport ground movement and visual guidance. By combining tower, gate and airfield solutions the company enables airports to operate more safely, efficiently and sustainably, thus delivering superior airport performance from approach to departure.

Products and services in aviation

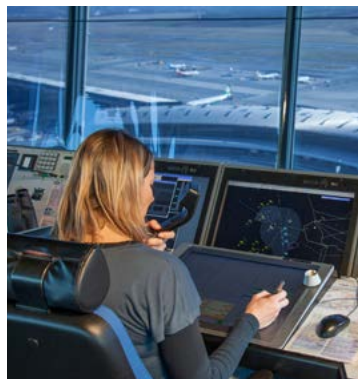
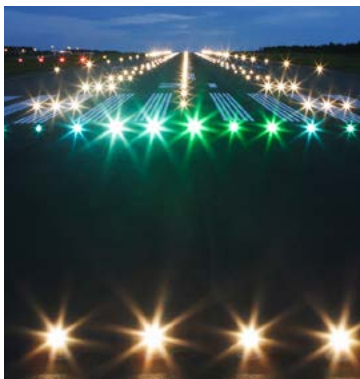
- Tower Solutions: A-SMGCS + FtG, E-Strips, DMAN, Integrated Info System
- Gate: Visual Docking Guidance (A-VDGS) and Apron Management Systems
- Airfield Solutions: Complete AGL infrastructure (LED, Power, Control)
- Services: Capacity studies, AGL design, training, project management

Technologies and competences

Tower Solutions: ADB Safegate provides ATC products including ACEMAX (A-SMGCS), DIFLIS (E-Strips), INFOMAX (Integrated Information System) and OPTAMOS (DMAN). Gate Solutions: ADB Safegate is the world leader in supplying Advanced Visual Docking and Guidance (A-VDGS) and Apron Management Systems. Airfield: ADB Safegate offers a wide range of LED AGL, power and intelligent light systems.



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | **Systems** | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
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Aero Enterprise is specialised in the sustainable inspection and analysis of surfaces of primary vertical standing (industrial) objects of all kinds. The complete air-based quality assurance system consists of a flying robot (SensorCopter), a mobile ground station, a client-based analysis software and a data-base.

Technologies and competences

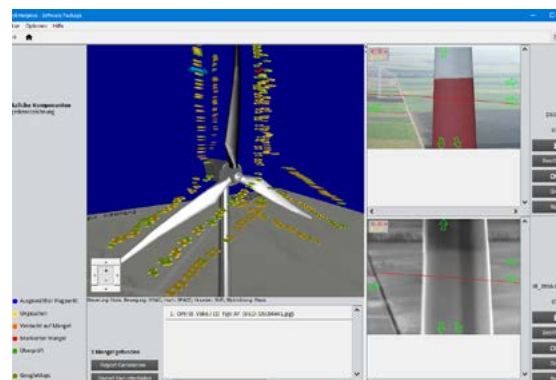
The company creates textures, orthophotos and 3D photogrammetric images. On request special sensors or embedded system work on unmanned aerial vehicle systems (UAV) can be integrated to provide support for customer-specific engineering works.

Products and services in aviation

- SensorCopter, electrically driven, modular Helicopter UAV, MTOW 25kg
- In-flight service inspection, primarily vertical (industrial) objects
- Software for traceable detection of damage and change



Find us directly at
www.aeronautics.at



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RESEARCH
DEVELOPMENT

Approved Training Organization according to EASA Part FCL for pilot training and training development according to EASA regulations, ICAO / IOSA / IS-BAO standards Task Force to re-organise and re-structure existing Pilot Training Organizations and Air Operators (CAT/NCC) - Development of business strategies for independant training organizations and training departments of air operators

Technologies and competences

Development, implementation and conduct of latest training technology in pilot training including MPL (Multi-Crew Pilot Licence) courses - Development and implementation of required operations manuals, training manuals and documentation for EASA Part FCL approval as Approved Training Organizations (ATO) - Support in preparation for IOSA / IS-BAO certification of training departments of air operators

Products and services in aviation

- MPL (Multi-Crew Pilot Licence) courses for commercial air operations
- ATPL ab-initio pilot training courses
- eLearning products and training courses for air operators (CAT/NCC)
- Development of operations and training manuals to meet EASA standards

Aviation standards and certifications

- EASA Part FCL



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airline pilot training in modern aircraft



eLearning and course development





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Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT

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AAC provides research, development and engineering capabilities in materials and process technology. It operates an ESA-certified materials test house. The research is focused on polymer and inorganic composites and coatings, novel test and monitoring methods and materials and components testing especially in extreme environment (load, temperature, atmosphere).

Products and services in aviation

- structural health monitoring, mechanical and fatigue testing
- development of resin infusion processes for fibre reinforced composites
- nano-powders and nano-modification of polymer and inorganic composites
- customer specified testing facilities and campaigns

Technologies and competences

Materials: Process modelling and verification of resin infusion, modification of curable resins, functionalisation of ceramic nano powders, coatings for improved thermal and wear resistance. Testing: Non destructive methods and structural health monitoring, friction, wear, mechanics, fatigue, life cycle, extreme environments, microstructure (SEM, EBSD, FIB).

Find us directly at
www.aeronautics.at



AHC Oberflächentechnik Ges.m.b.H.

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The AHC Group includes 19 plants in Austria, China, France, Germany, Italy, the Netherlands, Poland, Switzerland and the United Kingdom. The product range covers more than 100 processes and process variants, many of which were developed by the company itself. Customer support is provided from the planning and construction phase, as well as help in defining the exact requirements profile and advice on the choice of the optimum materials and processes.

Products and services in aviation

- HART-COAT® (hard anodising)
- technical anodising
- DURNI-COAT® (electroless nickel)

Aviation standards and certifications

- EN/AS 9100

Technologies and competences

The AHC Group considers itself to be primarily a service company for functional/technical surface finishing and grants licenses for its patented coatings all around the world. With a network of business locations that spans industry sectors and regions, the company is able to offer a reproducible process for everything from individual parts to large series, as well as highly competent consulting.

Find us directly at
www.aeronautics.at



Surface treated seat rails in passenger aircraft



Black coated titanium fittings for mirror cells



Helicopter cover and cable ducts on coating rack





Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | **Systems** | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT

AICO EDV-Beratung GmbH

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AICO Software focuses on the architecture in embedded systems. The company supports OEMs and their partners in designing the software development process and takes care of quality assurance. The company is also specialised in complex network-based system methods and the validation of system requirements, as well as providing advice on system conformity.

Technologies and competences

AICO Software's core competence is in consulting, quality assurance for aerospace on item level certification, DO-178B, DO-254, as well as gap analysis in the process and between the process and implementation. The company defines effective ways to solve problems between the process and daily business. A special part is the configuration management with its focus on effective implementation and work flow.

Products and services in aviation

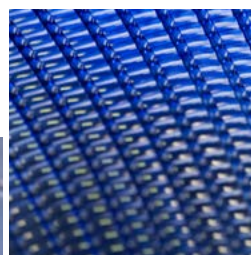
- consulting at item level for embedded systems, requirements engineering.
- gap analysis for QA, QA/CM. process management.
- support for DO-178B, DO254
- configuration management

Aviation standards and certifications

- EN/AS 9100
- DO-178B (SW), DO-254 (HW), ISO 26262-6, ARP4754



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Air Ambulance Technology GmbH

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For more than 20 years, Air Ambulance Technology has been designing and manufacturing tailor-made aircraft interiors for both rotorcraft and fixed wing aircraft. Air Ambulance Technology holds STC's for all major aircraft manufacturers, and also the DOA, the POA and the MOA, giving their customers the opportunity to acquire the full benefit of a company offering design, to after sales service.

Technologies and competences

Due to Air Ambulance Technology's "Quick Change Technology", an aircraft does not have to be new to have one of Air Ambulance Technology's interiors installed. Used aircraft can also be fitted with a tailor-made interior, designed and manufactured to the customers' special wishes.

Products and services in aviation

- EMS Interiors for all major helicopter OEMs, private operators, military and governments
- Intensive-, non intensive care stations for fixed wings
- VIP Interior modification for helicopters and fixed wing aircraft
- Mission equipment for police helicopters

Aviation standards and certifications

- EASA Part 21 POA
- EASA Part 21 DOA
- EASA Part 145



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT
PRODUCTION

Airborne Technologies GmbH

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Located directly at the airfield East in Wiener Neustadt, Austria, Airborne Technologies consists of a team of experts coming from aviation, system engineering and geo-data acquisition.

The company established a unique combination of know-how enabling the delivery of innovative and flexible solutions customised for governments, police, military and many sectors of industry.

Technologies and competences

Airborne Technologies excels in three business areas: ISR Turnkey Solutions, Sensor Integration and Data Solutions. The company specialises in the modification, installation, certification and operation of sensor equipment. They provide turnkey solutions for airborne surveillance and surveying systems for airborne platforms as well as integration of Sensor Systems into existing customer aircraft.

Products and services in aviation

- Complete airborne surveillance packages
- Integration of sensors into existing fixed & rotary wing aircraft
- Service provider for data solutions
- S.C.A.R. – Pod - “Plug and Fly” surveillance capability

Aviation standards and certifications

- EASA Approved Design Organisation



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AIT Austrian Institute of Technology GmbH

Light Metals Technologies Ranshofen

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LKR is a subsidiary of AIT Austrian Institute of Technology and forms as 'Light Metals Technologies Ranshofen' one of 2 business units in AIT's Center for Low-Emission Transport. LKR's research topics are 'Customised Materials Development', 'Process Development and Optimisation' and 'Material Based Design', concentrating on new Al and Mg alloys for usage in transportation means including a/c.

Technologies and competences

LKR's focus on new Al & Mg alloys is accompanied by R&D on innovative manufacturing methods along the process chain as well as the appropriate part design considering through process modelling, incl. casting, extrusion, forging, sheet metal forming, milling, turning or joining. Recent success stories contain the development of non-flammable magnesium alloys and special designed aluminium materials for additive manufacturing.

Products and services in aviation

- Development of high strength aluminium alloys for new fields of application
- Innovative magnesium alloys with properties beyond state-of-the-art
- Optimising manufacturing processes by both experim. & numerical simulation tools
- Support in R&D of a/c systems e.g. seats, UAV, de-icing, ELT, ...
- Semi-industrial processing (e.g. casting, forming, joining, additive layer manufacturing)
- Testing and characterization methods delivering properties of material samples and parts



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Non-flammable Mg alloy



Dilatometry



Extrusion press



Alpen-Adria-Universität Klagenfurt - Institute of Networked and Embedded Systems

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The Institute of Networked and Embedded Systems (NES) is involved in the design, modelling and analysis of networked and embedded systems of the future. Research and teaching areas include wireless communications and networking, sensor and camera networks, signal processing, and autonomous aerial robot systems. There is a special focus on self-organising systems.

Products and services in aviation

- small-scale UAV systems
- mission planning and coordination
- aerial wireless networking

Technologies and competences

In the area of multi UAV systems, NES focuses its research on wireless communication and coordination among UAVs, mission planning and sensor data analysis. Applications of the developed multi UAV system include disaster management, environmental monitoring and security.



Find us directly at
www.aeronautics.at



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RESEARCH
DEVELOPMENT
PRODUCTION



ALPEX is a leading manufacturer of high-quality and precision tooling for aerospace, automotive and industrial products. Due to the company's focus on tooling for composites, leading tier 1 suppliers, OEMs and automation partners trust in their excellent expertise as a supplier for CFRP production equipment. The company's ongoing activities in R&D projects ensure state-of-the-art solutions for increased customer benefit.

Technologies and competences

ALPEX Technologies offers the whole range of jigs and tools for the production of CFRP-components. The company's strong points include the work of highly skilled engineers and professionals, as well as state-of-the-art equipment and facilities. The ongoing R&D activities focus on the development of innovative tooling technologies in close cooperation with research partners and key customers.

Products and services in aviation

- Lay-up and curing tools for autoclave and infusion processes
- RTM tools
- Preform tools
- Assembly and handling jigs

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

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Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

PRODUCTION

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AME Euromotive is a 100% subsidiary of Alu Menziken Extrusion in Reinach, Switzerland. Alu Menziken Extrusion is a leading supplier of high-precision, special application extruded aluminium profiles. AME Euromotive is specialized in lightweight aluminium components for applications in automotive and aerospace industries.

Technologies and competences

AME Euromotive has profound expertise in materials engineering, product development, project management and technical support. AME Euromotive has the experience and the know-how for doing the design, prototyping, processing (machining and joining technologies), forming and assembling of light construction aluminium components.

Products and services in aviation

- Aircraft Seat - Backrest Structures
- Aircraft Seat - Table Arm Assy
- Cabin Interior - Edge Protections
- Cabin Interior - PSU Rails

Aviation standards and certifications

- EN/AS 9100



Find us directly at
www.aeronautics.at



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DEVELOPMENT
PRODUCTION

With more than 70 years of experience, AMAG rolling supplies aluminium products in the shape of sheet, coil and plate that meet the highest quality standards for growth sectors such as the aircraft industry.

Technologies and competences

In 2014, AMAG commissioned a second hot-rolling mill, a plate production center, and expanded recycling capacity. This was a first step towards manufacturing products in widths up to 90 inch (2,300 mm). With the new cold-rolling mill, AMAG will continue its growth path to beyond 300,000 tons of rolling capacity. The new cold-rolling mill will start operation in June 2017.

Products and services in aviation

- aircraft plate (alloys 7050, 7075/7175, 7475, 2024, 2219, etc.)
- aircraft sheet, coil (ALCLAD 2024, ALCLAD 7075, 2014, 6013, etc.)



Aviation standards and certifications

- EN/AS 9100
- NADCAP, Product approvals (Airbus, Boeing, Embraer, Bombardier, etc.)

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www.aeronautics.at





RESEARCH
DEVELOPMENT
PRODUCTION

AMST-Systemtechnik GmbH

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AMST started working in the area of aerospace medicine in 1978. The company develops, constructs and delivers turnkey training equipment for aerospace medicine and for civil aviation. In Ranshofen AMST also provides complete training courses for night vision and disorientation, as well as upset prevention recovery training on the DESDEMONA in Soesterberg, The Netherlands. Since 2016 AMST has expanded its product portfolio for the civil aviation market with new simulation training devices.

Technologies and competences

The company's competences include mechanical and electrical engineering, structural calculations, flow simulations, plant simulation, control system engineering and software development, as well as safety analyses and safety certification. Another key competence is prototype development and construction. AMST delivers complete plants as turn-key solutions including a properly designed and built building.

Products and services in aviation

- Flight simulation under G-force load
 - 3DoF-9g centrifuge
 - 6DoF-3g(7g) Desdemona
- Flight simulation training devices
 - FTD - Flight Training Devices
 - PTT - Part Task Trainer
- Pilot training
 - basic and advanced disorientation
 - night vision
 - VFR/IFR training
- Helicopter training devices
 - rescue hoist trainer
 - under water escape trainer
- User-oriented training equipment
 - decompression chambers
 - night vision equipment trainers
 - sports equipment



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Human Training Centrifuge



Upset Prevention Recovery Training at DESDEMONA



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DEVELOPMENT
PRODUCTION



AMTEQ is a high-tech manufacturing and development company - its dedication to brand new equipment and the combination of innovative new technologies like metal 3D printing and conventional processes offers a unique USP to customers. AMTEQ manufactures all kind of equipment from structures to interior components.

Technologies and competences

- Metal 3D Printing
- CNC milling & turning (3 axis, 5 axis, turning) of all grades of metals like titanium, steels, aluminum, plastics,...
- 3D design and modelling
- Product optimization
- complete supply chain management

Products and services in aviation

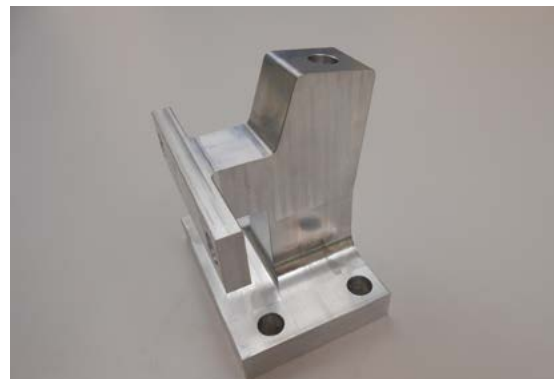
- Manufacturing Metal 3D printing CNC milling CNC turning
- Design and modelling 3D Design-FEM modelling-product optimization
- Supply Chain Management Raw material-Production-Surface & Heat-Assembly
- Project management – control-monitoring-project optimization

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
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DEVELOPMENT
PRODUCTION

ANTEMO Anlagen & Teilefertigung GmbH

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ANTEMO

Anlagen & Teilefertigung



Antemo is a specialist in the mechanical production of all metals and plastics, as well as the manufacturing of devices, lines and assembly of components for motorsports, medical instrumentation and the computer industries.

Technologies and competences

Antemo manufactures milled and turned parts from a very wide range of materials (all plastics, non-ferrous metal, aluminium, and steel) and also provides advice on material selection. The company is specialised in the fast manufacturing of single parts up to medium-sized series production. A further service offered to the customers is the complete assembly including surface treatments.

Products and services in aviation

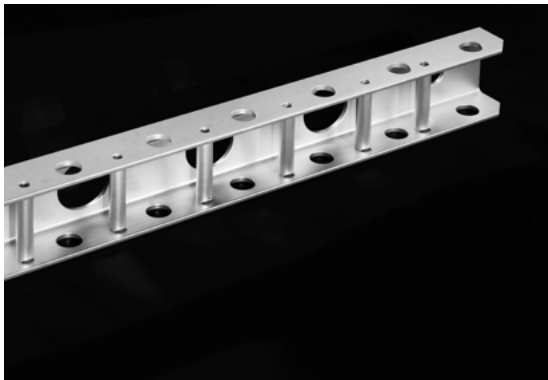
- interior parts (e.g. brackets)
- latches, tables
- prototypes

Aviation standards and certifications

- EN/AS 9100
- ISO 9001



Find us directly at
www.aeronautics.at



Anton Paar ShapeTec GmbH

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DEVELOPMENT
PRODUCTION

Anton Paar ShapeTec is an independent supplier located in Wundschuh/Styria and is part of the Anton Paar GmbH corporate group. Anton Paar ShapeTec provides customer-specific solutions in sheet metal and joining technology as well as metal-cutting production for manufacturing complex parts with low tolerances.

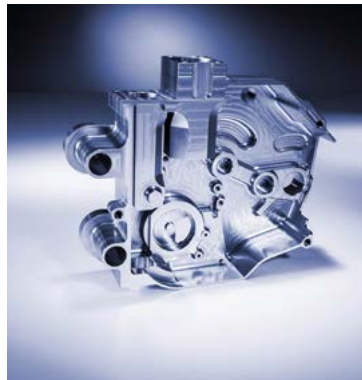
Products and services in aviation

- locking systems
- primary parts (metal cutting)
- landing gear systems

Technologies and competences

The core competences of Anton Paar ShapeTec are found in sheet metal technology (laser cutting, punching, edging), joining technology (hand welding, robot welding, laser welding, soldering, high-vacuum soldering, and so on), and surface technologies (painting, screen printing, anodising, chromating, powder coating, and so on). This range is completed by high-precision, metal-cutting production (CNC turning, CNC milling, CNC grinding).

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- RESEARCH
- DEVELOPMENT
- PRODUCTION

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APEX Engineering

APEX Engineering is a technical service provider, offering customer-oriented services in the areas of R&D, analysis and optimisation, as well as construction and production.

Technologies and competences

APEX employs specialists in engineering, automation, manufacturing, physics and light weight technologies. One of the company's special technologies is, for example, the development and production of technical springs such as coil springs, leaf springs or spiral springs made from fibre reinforced polymers. Another focus is on the machining of fibre reinforced polymers.

Products and services in aviation

- fibre reinforced polymer parts
- milling and drilling of fibre reinforced polymers
- development of technologies and devices for the production process
- automation of manufacturing



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comparison of steel and CFRP leaf spring



lightweight CFRP spiral spring



lightweight CFRP coil spring



aps Automatisierte Produktions Systeme GesmbH

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DEVELOPMENT
PRODUCTION

aps is an internationally active company, headquartered in Höchst/Vorarlberg. The company provides economical and innovative solutions to problems which are always oriented towards the demands and needs of the customers. The support of state-of-the-art technology ensures that future tasks will be completed as efficiently as at the present.

Technologies and competences

Advanced waterjet technologies and cutting machines, high accuracy 6-axis-robots, usable for waterjet-cutting, milling, boring, grinding, testing, assembling, handling etc. Advanced 2-seater aircrafts (experimental). The company now sells licences and tools for production kits (at present only one licence per continent. A general license for the whole world is open to negotiation).

Products and services in aviation

- High accuracy advanced waterjet cutting machines usable for 2D and 3D cut. Cartesian kinematics
- High accuracy advanced waterjet cutting machines usable for 2D and 3D cut. 6-axis-robot kinematics
- Milling, drilling, handling, etc. using high accuracy 6-axis-robots (Stäubli or KUKA-based)
- Advanced 2-seater kit-airplanes (experimental). The company now sells licences and tools for production kits.



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www.aeronautics.at



arp - planning.consulting.research

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arp is an engineering consultancy company active in the fields of urban design, traffic network planning, industrial site evaluation with regard to multimodal accessibility for freight transport, as well as in different individual mobility and public transport matters in town and regional planning.

Products and services in aviation

- R&D-Services for the bmvit - ACCIA - Air Cargo Capabilities In Austria

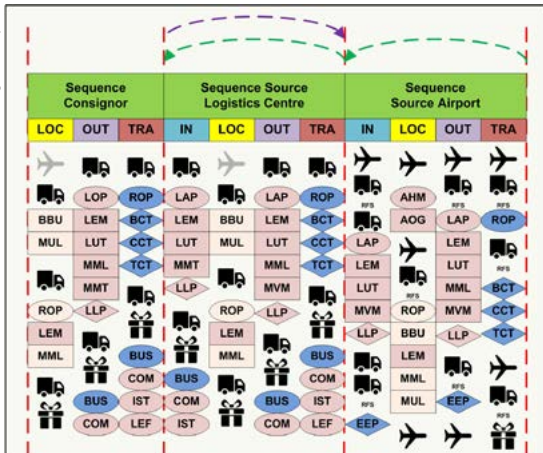
Technologies and competences

arp has knowledge of the specific characteristics of airborne networks, road, rail and inland waterways in respect of usage requirements, service abilities and accessibility opportunities for different transport tasks. In addition the company explores the needs of interdisciplinary cooperation with the focus on implementation in transport actions.

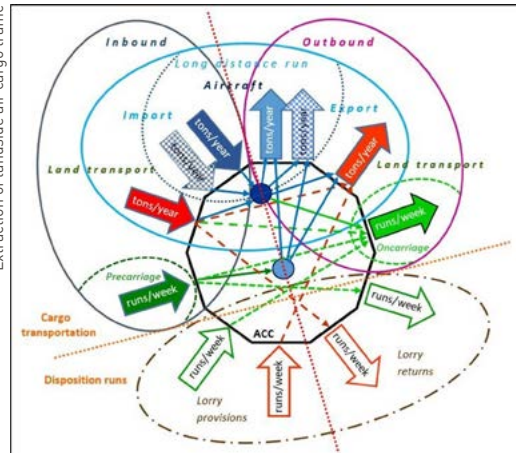
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Extraction of interfaces in air cargo transport



Extraction of landside air cargo traffic



ASQS GmbH

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DEVELOPMENT



Advanced Safety and Quality Solutions (ASQS) is a highly innovative software provider in the field of Aviation Safety and Quality Management Systems (SMS and QMS). The company was founded in 2009. Today more than 150 companies around the world use ASQS's products in their daily operation. Clients range from very small to large companies in all fields of the aviation industry.

Products and services in aviation

- IQSMS - Integrated Quality and Safety Management System
- Flight Data Analysis



Technologies and competences

IQSMS is a web-based Safety, Quality and Risk Management System, based on and in compliance with ICAO Annex 19, EASA/FAA, IOSA, EN9100 and similar requirements. IQSMS has been developed by safety and quality management experts with many years of experience in the aviation industry. In the development process a special focus is always placed on user-friendliness, easy comprehension and compliance with the regulations.

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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies | Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

PRODUCTION

Austrian Airlines AG Technik

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At Austrian Technik, 800 highly motivated and carefully trained technicians work on a 24/7 basis to guarantee customer satisfaction. The technicians are distinguished by their commitment, professionalism and quality.

Technologies and competences

For the various aircraft and engine types, Austrian Technik currently offers the following services: aircraft maintenance up to C-Checks, as well as technical modifications, component maintenance, technical training and engineering.

Products and services in aviation

- aircraft maintenance
- component maintenance
- full technical support
- training

Aviation standards and certifications

- EASA Part 21 DOA
- EASA Part 145
- EASA Part 147
- EASA Part M Subpart G
- FAA FAR145/CAAC Part-145/QCAA
- Part-145/GCAA Part-145/TCCA Part-145



Find us directly at
www.aeronautics.at



Austro Engine GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION



Founded in 2007, Austro Engine develops and produces state of the art rotary and piston engines (operated with diesel and kerosene) for general aviation and unmanned aerial vehicles (UAV). As a certified production and design organisation (EASA and ACG) this company is your reliable partner for development, certification and production of aviation engines.

Technologies and competences

The range of engine products covers a power range from 50 to 450 hp and the company with a production area of 7600m² is subject to the most stringent quality and safety standards. The combination of development and production in one location as well as state-of-the-art test benches and a dedicated aircraft test fleet makes Austro Engine to your leading partner in the aviation.

Products and services in aviation

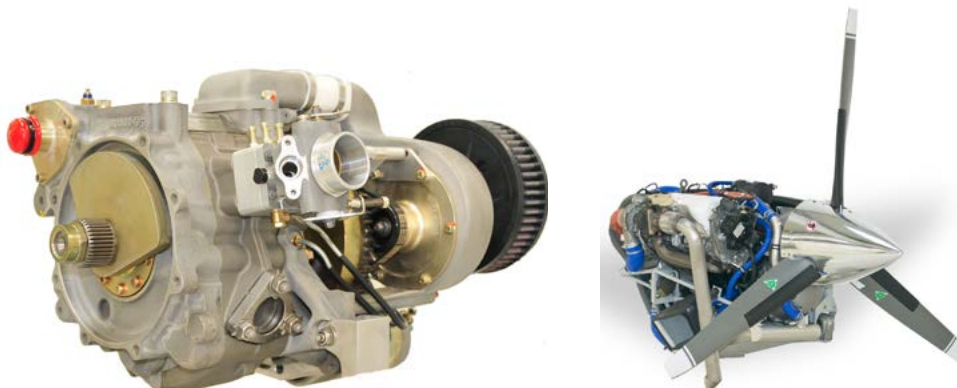
- AE50R single rotary engine: 294 cm³, 40.4 kW, 55 hp.
- AE300 Jet A1 Piston Engine: 4 cylinder, 2 l, 123.5 kW, 168 hp.
- AE330 Jet A1 Piston Engine: 4 cylinder, 2 l, 132.5 kW, 180 hp.

Aviation standards and certifications

- EASA Part 21 POA
- EASA Part 21 DOA



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT
PRODUCTION

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AXIS was founded in 2004 in order to develop ultramodern simulation technologies. Since then, the company has concentrated on the design and manufacture of flight simulators. Development focuses on the full flight simulator sector with the highest certification class LEVEL D.

Technologies and competences

The latest bus technology is used for the technical realisation. A modular system facilitates the realisation of all aircraft models. The use of real time computers as well as the latest generation of the respective operating and communication systems guarantees excellent simulation quality as well as the highest stability and performance.

Products and services in aviation

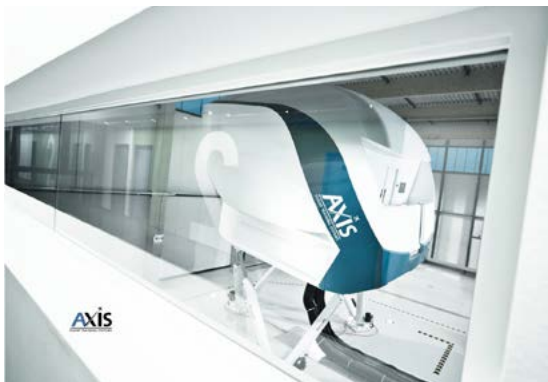
- Flight Training Devices up to EASA / FAA Level D
- training equipment for pilots

Aviation standards and certifications

- EASA CS-FSTD(A), FAA PART 6



Find us directly at
www.aeronautics.at



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Bionic Surface Technologies GmbH (BST) is a company that specialises in high-tech computational analysis. BST uses computational fluid dynamics (CFD) tools and has developed micro-structured surfaces called riblets to reduce friction flow on aerodynamics surfaces such as the wings of airplanes.

Technologies and competences

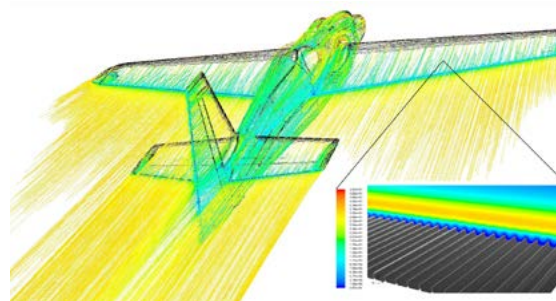
BST provides two types of products/services. One product is a nano/microstructured foil (riblet foil) which reduces the drag in a fluid (air, gases or water) up to 8%. Tests were done with aircrafts (Single-seater), industrial and water applications (pipes, surfboards). As an expert in Computational Fluid Dynamics Simulation, BST provides also high quality CFD-analyses for several industries.

Products and services in aviation

- Riblet Foil
- CFD Engineering
- CFD Consulting
- Aircraft Design Improvement



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
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DEVELOPMENT
PRODUCTION

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Böhler Bleche specialises in the manufacturing of hot- and cold-rolled sheets, plates and blanks with different surfaces and cutting execution. The sheets, plates and blanks are made of various materials for the aviation industry and are used in a great variety of areas, both in aircraft and in helicopters.

Technologies and competences

Böhler Bleche is a worldwide leading manufacturer of single cross-rolled sheets and plates. This means they can provide their customers with products of supreme uniformity in terms of mechanical/technological and physical properties.

Products and services in aviation

- engine mounts
- seat runners
- wing flaps
- engine parts

Aviation standards and certifications

- EN/AS 9100
- Audits (e.g. Airbus, Boeing, Bombardier, Liebherr, Rolls Royce, Safran,...)



Find us directly at
www.aeronautics.at



Böhler Edelstahl GmbH & Co KG

Mariazeller Strasse 25
8605 Kapfenberg
Austria | Österreich

Helmut Buchhas
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E aerospace@bohlersteel.com
W www.bohler-edelstahl.com



PRODUCTION

For generations the name BÖHLER has been synonymous worldwide with top quality specialty steels. The company is driven to give its best every day by the demands of its customers. Leading companies in future-oriented industries. Highly innovative specialists who not only demand high-performance materials, but also need intelligent solutions that expand the limits of what is possible.

Technologies and competences

As technology leader and most reliable supplier to the aircraft manufacturing industry, BÖHLER provides customer-specific material solutions. Today smelting metallurgy is still the company's domain, the innovations of which are a guide for the technical world. Vacuum smelting and remelting and advanced pressure ESR processes with the highest metallurgical purity are the focal point of the BÖHLER special steel mill.

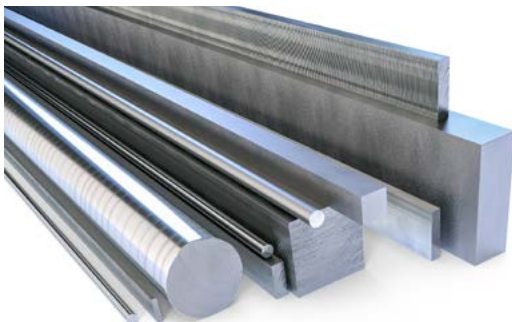
Products and services in aviation

BÖHLER Edelstahl is a high-performance producer of specialty steel, nickel and cobalt superalloys. Billet, bar and wire product is used in the manufacture of aircraft and engine forgings and components. Furthermore BÖHLER Edelstahl is a worldwide supplier for high quality powder and printing know-how for additive manufacturing.



Aviation standards and certifications

The BÖHLER Edelstahl quality management system is certified to ISO 9001, EN / AS 9100 and TS 16949, and accredited under ISO 17025. In addition, the company has a series of approvals from regulators and customers such as Airbus, Boeing, Rolls Royce, BAE-Systems, GE Transportation Aviation, and Pratt & Whitney Aircraft.



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

DEVELOPMENT
PRODUCTION

Böhler PROFIL GmbH

Waidhofner Strasse 8
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W www.bohler-profil.com



With more than 5,000 different special profiles, Böhler PROFIL is one of the most experienced manufacturers of profile steel worldwide. The production portfolio encompasses rolled and drawn special sections and bars. Thanks to its special know-how, the company is able to provide its customers with tailor-made solutions which meet the requirements of every demand and application.

Technologies and competences

Böhler PROFIL offers its customers individual, customised, near-net shaped profiles with very tight tolerances. All steel alloys, as well as the nickel based alloys, are processed to high quality profiles. The company excels through its highly competent consulting, a result of its many years of experience, and through its fast processing. Furthermore, Böhler PROFIL is also EN 9100:2009 certified.

Products and services in aviation

- sealing sections for cargo hatches
- guideway sections for the landing flaps
- turbine ring sections
- blade profiles for engines

Aviation standards and certifications

- EN/AS 9100



Find us directly at
www.aeronautics.at



BÖHLER Schmiedetechnik GmbH & Co KG

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RESEARCH
DEVELOPMENT
PRODUCTION

Böhler Schmiedetechnik produces high quality die forged and premachined components for aerospace applications, power generation and other high-tech industries. The products are sold worldwide. Major aggregates for production are the world's two largest screw presses as well as several closed and open die hammers. The quality control system is based on ISO9001 and EN9100.

Technologies and competences

The main competences are the design, simulation, thermo-mechanical processing including quality assurance of critical forgings close to final shape as well as machining. Products are made of difficult to form alloys such as titanium, nickel base alloys and high alloyed steels, which involves tough process control in order to guarantee low process variations.

Products and services in aviation

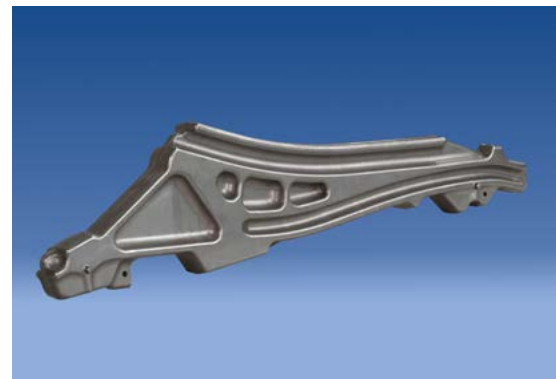
- engine mounts and discs
- landing gear parts
- wing and fuselage components (tracks, fittings, ...)
- pylon parts

Aviation standards and certifications

- EN/AS 9100
- NADCAP approvals



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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

BOXMARK Leather GmbH & Co KG

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BOXMARK is one of the world's leading leather manufacturers and processors headquartered in Austria, with production locations in Europe, America and Asia. The company supplies the aircraft, automotive, railway, ship and furniture industry. BOXMARK is an experienced supplier of flame-retarding equipped leather providing any common fire resistance specification worldwide.

Technologies and competences

As an international supplier of complete solutions BOXMARK plays an important role for the industry in the development and production of interior. From leather hides to leather-covered elements, be it a prototype, a serial product, a customized workpiece or complete furnishings and fittings, BOXMARK offers all custom-made services and the full range of leather refining and processing for interior.

Products and services in aviation

- KING: soft and stable leather, 19 diff. patterns, for large projects
- DUKE: leather with fine smooth grain, very elegant, easy care finish
- BARON: full grain leather, very soft, for VIP and Business Jets
- LEATHER FLOOR: developed with F/List, wide range of colors/embossments

Aviation standards and certifications

- EASA Part 21 POA
- ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004.



Find us directly at
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VIP seat with DUKE leather



Luxury Traveller with KING leather



BRP-Rotax GmbH & Co KG

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E aircraft.support@brp.com
W www.flyrotax.com

ROTAX
AIRCRAFT ENGINES



DEVELOPMENT
PRODUCTION

BRP-Rotax, the subsidiary of BRP Inc. is a leader in the development and production of innovative 4- and 2-stroke high performance Rotax engines for BRP products such as Ski-Doo and Lynx snowmobiles, Sea-Doo watercraft, Can-Am all-terrain, side-by-side vehicles and Spyder roadsters as well for motorcycles, karts, ultra-light and light aircraft.

Technologies and competences

ROTAX® Aircraft Engines offers outstanding performance, continuous reliability and reduced emissions. The product portfolio consists of the 582 engine series (2-stroke) and the 912 / 914 engine family (4-stroke). All these engines are approved for use with ethanol 10 (E10) fuel, MOGAS and AVGAS.

Products and services in aviation

- 4-stroke aircraft engines from 80 - 115 hp
- 2-stroke aircraft engines (65 hp)
- spare parts

Aviation standards and certifications

EASA Part 21 POA Subpart G, EASA Part 21 DOA Subpart J, ASTM F 2339, CS-E, FAR-33



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Aviation Technologies

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DEVELOPMENT

CADisfaction e.U.

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CADisfaction is an experienced consultancy company in the fields of aeronautic, automotive and mechanical engineering. It provides innovative and individual solutions for companies. Technical and economic know-how enable the creation of customised concepts for all project phases.

The company has many years of experience in the fields of construction, development and project management.

Technologies and competences

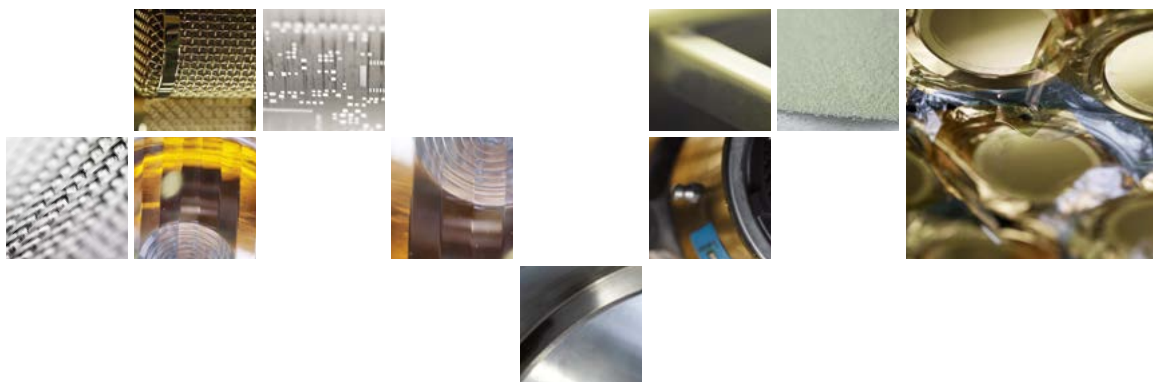
CAD Design & Project Engineering

Products and services in aviation

- CAD design of metallic, non-metallic and FRP single parts
- CAD design of metallic, non-metallic and FRP assemblies
- Creation of detail/assembly drawings, product structures, kinematics
- Creation of handbooks, manuals, internal standards and methods



Find us directly at
www.aeronautics.at



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RESEARCH
DEVELOPMENT
PRODUCTION



Carbon-Solutions Hintsteiner is Austria's leading competence center for carbon fiber technology, prototyping and small-batch production. As part of the Hintsteiner Group the company is experienced and specialised in the area of fiber-reinforced composites since the very beginning. Carbon-Solutions is a leading expert for development and production of customised and high-effective solutions.

Products and services in aviation

- Research and development composite materials
- Composite Engineering and production
- Mould production
- Quality assurance

Technologies and competences

The production capabilities are fully tailored to the individual requirements of the end product. Each project is unique. Technologies: Autoclave - L-RTM - Low pressure - RTM - Infusion technology - Extrusion - SMC - Wet lamination - RIM- Prepreg Areas of expertise: - Automotive - Medicine - Motorsport - Defense - Aviation

Find us directly at
www.aeronautics.at



Carinthia University of Applied Sciences - School of Engineering & IT

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The Department of Geoinformation and Environmental Technologies at Carinthia University of Applied Sciences (CUAS) offers applied degree programmes at undergraduate (“Geoinformation and Environmental Technologies”) and graduate (“Spatial Information Management”) level. Research interest in the context of aviation is in the holistic application of UAS for very high resolution, multidimensional, validated data capture for various application domains. Another focus is in the context of Air Traffic Management the support of safe UAS mission planning by geospatial data and technologies.

Technologies and competences

Since 2014 the department operates two fully certified, class 1, fixed-wing UAS systems with integrated optical (RGB, NIR, multispectral, hyperspectral cameras) and meteorological sensors. High performance hardware and software infrastructure and processing chains for UAS big data processing are available. For high precision ground truth meas-

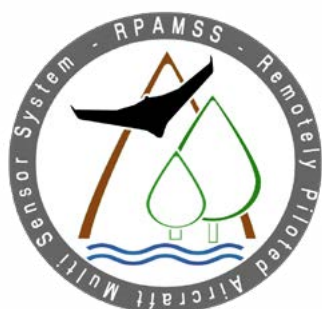
urements, the department is equipped with a Leica survey grade mobile DGPS and a Leica Nova MS 60 Multistation.

Products and services in aviation

- Very high resolution multidimensional UAS based validated data capture
- UAS data management; Spatiotemporal analysis and change detection
- UAS sensor development and assessment for meteorological applications
- Application of UAS for infrastructure inspection
- Air Traffic Management for UAS



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W www.ceratizit.com



PRODUCTION

CERATIZIT - passion and pioneering spirit for hard materials.

For more than 95 years the company has been developing and producing sophisticated hard material cutting and wear protection solutions: from highly specialized cutting tools, indexable inserts and carbide rods to new types of carbide and cermet grades for wood and stone working.

Technologies and competences

CERATIZIT's expertise lies in the complete machining of fuselage and wing structural components such as frames and ribs, engine mounts and flap track fairings made from high-strength materials. Especially heat-resistant materials such as titanium or super alloys are employed in this area for the latest generation of aeroplanes. These materials are usually considered difficult to machine due to their low thermal conductivity, high strength, high level of hardness and chemical reactivity.

Products and services in aviation

The MaxiMill HSC/HPC was developed for high speed machining with maximal cutting parameters. MaxiMill 211 is a 90° face milling system for roughing and universal applications Solid carbide cutters with tool geometries are specifically adapted for the machining of titanium Tool designed to generate maximum performance during aluminium cutting.



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www.aeronautics.at



CEST Kompetenzzentrum für elektrochemische Oberflächentechnologie GmbH

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CEST is Austria's competence centre for electrochemical surface technology and operates as an innovation centre and trend-setter at the interface between science and industry. CEST was founded in 2008 as the successor to the EICHEM Competence Centre for Applied Electrochemistry as part of the Austrian competence centre programme called COMET. In 2015 a second location at JKU Linz (TNF-Tower) was established.

Technologies and competences

The CEST competence centre concentrates on electrochemical surface technology and corrosion research as well as surface characterisation. Through the results of the research work, it is possible to develop metal films and new layer systems with optimised properties, like nano-crystalline layers. It is also possible to design the manufacturing of surfaces to be more cost-effective and environmentally friendly.

Products and services in aviation

- Functional inter- and surfaces
 - Research and development of new materials/treatment methods for surfaces
 - Research and development of new processing methods for surfaces
- Corrosion technology and research
 - Research and development of new anti-corrosion approaches
 - Investigating the reasons for all kinds of corrosion
- Analytical services
 - e.g.: Electron and atomic microscopy, X-ray diffraction, focused ion beam,...
 - Testing of the surface resistance towards external influences



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CoLT Prüf und Test GmbH

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RESEARCH
DEVELOPMENT



CoLT is an independent, state-of-the-art test facility providing analysis, qualification and certification services for products from a variety of industries. CoLT is a professional partner supporting product development and innovation. Together with its customers, CoLT generates comprehensive test data, outlining their product capabilities and allowing them to develop further.

Technologies and competences

CoLT's service spectrum includes custom-designed tests to suit each product, with each test developed, operated and overseen by a team of experienced engineers using recognised and proven processes. To facilitate this service, CoLT utilises a modern test laboratory, in conjunction with a well-equipped test hall and remote operation and monitoring centre.

Products and services in aviation

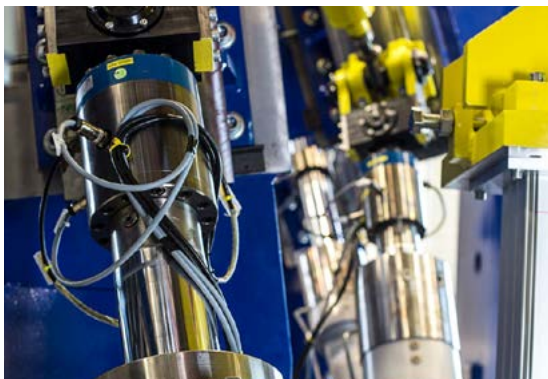
- Mechanical tests for materials and components (multi axis)
- Measurement and automatic control; 3D deformation analysis
- Analysis (chemical, thermal and physical)
- Life cycle and environmental tests

Aviation standards and certifications

- Diehl Aircabin
- ISO 17025 (in progress)



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Aviation Technologies

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RESEARCH
DEVELOPMENT

Combustion Bay One e.U.

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W www.CBOne.at



Combustion Bay One is the first technical platform in Austria designed for engineering and research in advanced combustion technologies. The focus is on the aeronautical industry, as well as on the power generation branch. The company specialises in modelling and in experimental research and development and is geared towards less fuel consumption, reduced emissions, as well as more operational flexibility and safety.

Technologies and competences

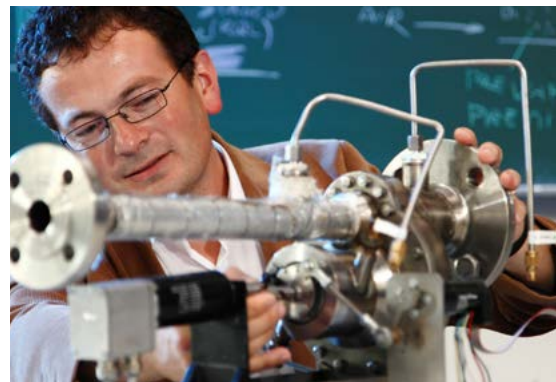
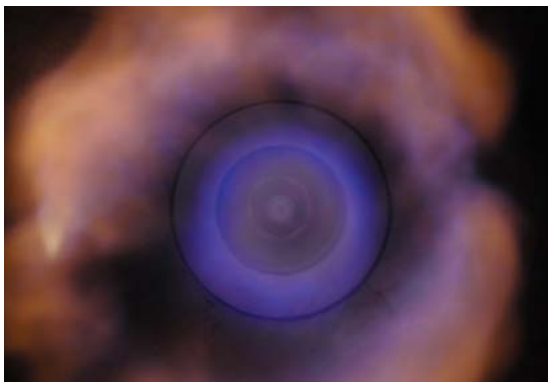
Expertise in combustion systems for aeronautics and power generation; engineering for combustion test rigs; low-emission burner design and construction (gas & liquid fuel); fuel line & spray technologies; flame diagnostic (sensing & advanced measurement techniques); flow control (actuation, quasi-static, dynamic); replacement fuels; data mining, proof of concept, scientific dissemination

Products and services in aviation

- Calibrated air flow modulation for advanced flame dynamics control
- An optical combustion diagnostic probe for gas turbines and aero engines
- Engineering, dimensioning and planning of combustion facilities.
- Conception of low-emission burners. R&D at low-TRL. Prototypes.



Find us directly at
www.aeronautics.at



CT Engineering GmbH

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W <http://ctengineering.at>



CT Engineering is a technical office for development and engineering. It stands for innovative solutions. Together with its clients and partners, the company works out concepts, develops necessary components and ensures that the production runs smoothly. Already existing products are also optimised with regard to cost effectiveness, best quality and weight optimisation. The customer receives full support, from the first idea to serial production.

Products and services in aviation

- Engineering services from idea to series production
- Supplier management to provide the right parts for the customer
- Prototyping - from virtuality to reality

Technologies and competences

CT Engineering covers the entire development process for technical components. The company creates, designs, calculates and constructs technical components, modules and assemblies. Creative solutions are supplied for seemingly unsolvable challenges, as well as innovative ideas for technical products, developing processes, prototypes or serial production lines. Existing products are optimised – to be more efficient, lighter and of a higher grade.

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RESEARCH
DEVELOPMENT

DEWETRON GmbH

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W www.dewetron.com



DEWETRON

DEWETRON designs and builds universal measurement systems for all kinds of research, development and testing tasks in aerospace applications. DEWETRON was founded in 1989 in Graz/Austria and is globally active in more than 25 countries. The company combines rugged, compact hardware with measurement accuracy and powerful software that is used for testing components such as propeller blades, actuators, etc.

Technologies and competences

DEWETRON measurement systems are used in test facilities, on proving grounds, in wind tunnels and even inside manned aircraft undergoing flight tests. A high number of analogue inputs like strain, pressure, acceleration, temperature, etc. can be acquired synchronously with vastly different signals like rotation sensors, ARINC-429 or MIL-1553 bus parameters, video, GPS or telemetry data.

Products and services in aviation

- DEWE2-A4: the most compact measurement system with built-in display.
- DEWE2-M13s: high channel count with 104 analogue inputs - expandable.
- DEWE2-F13-FIBRE: with a robust PCI Express interface to your host PC.
- DEWE2-A13 with infrared camera for maintenance applications.



Find us directly at
www.aeronautics.at



Diamond Aircraft Industries GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION



Diamond Aircraft Industries is an international, globally active manufacturer of glass fibre and carbon fibre composite aircraft. Innovative aircraft solutions of the highest level and quality are produced for flight training schools and private customers. Recognised as an international specialist for glass and carbon fibre composite technology, the company is active in many areas of research, development and application.

Technologies and competences

The company's goal is to introduce automobile standards into aircraft production. It combines the best of material, engine and navigation technology and develops aircraft that are both more economical to buy and maintain, as well as less of a burden to the environment. At the same time the highest standards in performance and safety are maintained.

Products and services in aviation

- DA62: twin-engine, propeller powered, 5-7-seater training & touring aircraft with jet-fuel engines
- DA42 MPP: DA42 as a multifunctional sensor carrier
- DA42-VI: twin-engine, propeller powered, 4-seater training & touring aircraft with jet-fuel engines
- DA40: single-engine, propeller powered, 4-seater training & touring aircraft with a jet-fuel engine



Aviation standards and certifications

- EASA Part 21 POA
- EASA Part 21 DOA
- EASA Part 145
- EASA Part 147
- EASA Part M Subpart G



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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

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DYNAMIC PERSPECTIVE is an international leader in the R&D and production of high performance, ultra-light, gyro stabilized camera systems. The company's airborne sensors are designed for use in media and security/industrial applications. DYNAMIC PERSPECTIVE's sales, training, support and services are carried out through their headquarters in Austria, as well as through their local offices around the world.

Products and services in aviation

- DynaX5: 5-axes gyro stabilised camera gimbal for film/TV
- DynaPro: 4-axes gyro stabilised camera gimbal for security/industry

Technologies and competences

DYNAMIC PERSPECTIVE excels in the design, development and production of high precision, gyro stabilized camera gimbals, using the latest technologies and maintaining the highest standards in quality. Camera payloads encompass up to 8K cine and broadcast cameras, as well as the latest EO/IR & laser systems. The systems are ultra-light and can be used on conventional and ultra-light aircraft, as well as UAVs/drones.

Find us directly at
www.aeronautics.at



E-P-C Ebetsberger Partner CNC GmbH

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CNC Bearbeitung und mehr.

The E-P-C company is a supplier for the aircraft, automotive and furniture industries. E-P-C Ebetsberger sets the highest standards in the manufacturing of components for the aviation supplier industry. All of the employees come from the surrounding region and have both outstanding skills as well as a high level of commitment.

Technologies and competences

E-P-C uses the most modern 5-axis CNC machines in their production to mill wood, carbon fibre, glass fibre reinforced plastic, plastic, etc. The company's competence lies in the successful combination of man and machine. Investing in employees is always at least as important as investing in technology. The company is certified according to ISO 9001: 2008 and EN 9100: 2009.

Products and services in aviation

- Services CNC
- Woodworking

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

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DEVELOPMENT

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ESCAD is a leading international provider of innovative products, technologies and services. The company offers high-quality engineering services, as well as the development and application of modern technologies and unique products. Their expertise comprises the know-how of high-quality engineers and technicians. Thanks to the 15 international subsidiaries, there is certainly a location nearby.

Technologies and competences

ESCAD has a great knowledge of aviation and aerospace. The successful implementation of small and large projects (for example for FACC, Airbus and Eurocopter) takes place at the ESCAD site or directly at the customer site. ESCAD also offers complete solutions from component development, through finite element analysis to prototyping.

Products and services in aviation

- Mechanical engineering / design
- Project management
- Stress calculation
- Digital validation

Aviation standards and certifications

- EN/AS 9100



Find us directly at
www.aeronautics.at



EYE.AERO gmbh

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RESEARCH
DEVELOPMENT
PRODUCTION



EYE.AERO was established as a spin-off from SG concepts in 2014, to force development, production and marketing of unmanned systems (UAV, UGV, USV, UUV), control systems, payloads and software. All development and production capabilities are available for OEM's and customers, too. Existing products will be adapted to your requirements and systems. These are delivered as outsourced items for your lot production.

Products and services in aviation

- UAV systems
- Ground Control Stations
- Data Links
- Payloads

Technologies and competences

EYE.AERO develops and manufactures tactical UAVs (EYE09) with customized payloads and rugged portable ground control stations (PCS) as one man systems for harsh civil and defense missions. The Linux based PCS can be adapted to existing UAVs. The key areas of its R&D competence are composite materials, light weight design and electronics hard- and software, with a particular focus on interdisciplinary projects. Prototyping and small series production takes place almost entirely in-house.

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www.aeronautics.at





Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

F. LIST GMBH

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F / LIST



F. LIST GMBH, from Thomasberg, Lower Austria, is a global manufacturer of high-class interior for business and private jets, mega yachts and luxury residences with more than 700 employees. Passion, reliability and visionary spirit determine every step of this Austrian family business. The services range from planning and development to engineering and manufacturing of the exclusive interiors.

Technologies and competences

Perfect carpentry craftsmanship combined with innovative, high-precision manufacturing technology and streamlined process flows are part of F. LIST GMBH's core strengths as well as extensive research and development and years of experience in the field of paint/lacquer and surface technologies.

Products and services in aviation

- cabin components (galleys, lavatories, wardrobes, partitions, panels)
- stone & wood veneers and floorings (with optional heating), engravings
- Aftermarket Services (refurbishment & retrofit)
- engineering & certification

Aviation standards and certifications

- EASA Part 21 POA

Find us directly at www.aeronautics.at



Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training



FACC AG

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RESEARCH
DEVELOPMENT
PRODUCTION

FACC is a worldwide leading company specialising in the design, development and production of light composite components and systems for the aerospace industry. The product range includes aerostructures on the fuselage and wings, engine and engine nacelle components and complete passenger cabins for commercial aircraft, business jets and helicopters.

Technologies and competences

FACC is a systems integrator and covers the entire value added chain of modern supply production - from concept to design, including static engineering and qualification, to tool design, manufacturing and full serial production. The company's strengths are creativity and flexibility in undertaking new development projects together with full and precise adherence to the high quality demands of the customers.

Products and services in aviation

- Aerostructures components
- Engine nacelle and engine components
- Aircraft interiors
- Engineering, research & development and testing services of composites



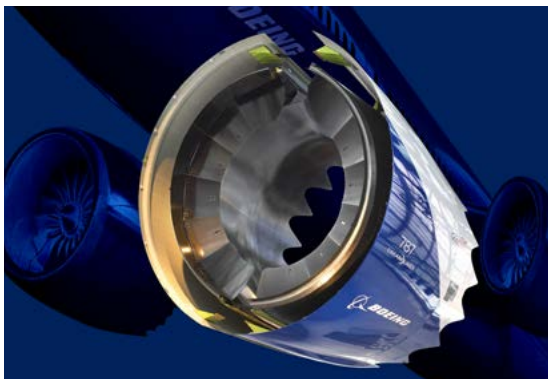
Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA
- EASA Part 21 DOA
- EASA Part 145
- Nadcap Certifications AC7118, AC7114, AC7108; ISO 14001

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Innovative, fuel saving lightweight components



A clear focus on high technology and R&D





DEVELOPMENT
PRODUCTION

Faschang Werkzeugbau GmbH

Pirath 12
4952 Weng im Innkreis
Austria | Österreich

Rudolf Faschang
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E rudolf.faschang@faschang.at
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Faschang has been developing advanced solutions in the field of tools, jigs and fixtures manufacturing since 1988. Solutions that help their customers produce innovative products: this is what drives and motivates the company. Faschang is known as "THE Solution Provider" and "a one-stop shop", working with clients mainly from the aviation, automotive, machine engineering, electrical, furniture, medicine and food industries.

The company supports its customers throughout the development and manufacturing process and can boast a modern advanced-development department, as well as highly efficient machinery with latest technical standards. For example, the new PARPAS 63 XS milling machine can process very large workpieces up to 6000 mm x 3000 mm x 1500 mm.

Technologies and competences

The four performance areas:

- fixture manufacturing
- tool manufacturing
- customised fittings / punching bending parts
- machining production

Products and services in aviation

- development and manufacturing of test equipment, adhesive fixtures, assembly fixtures
- customised tools
- high quality milling and turning parts for interiors

Aviation standards and certifications

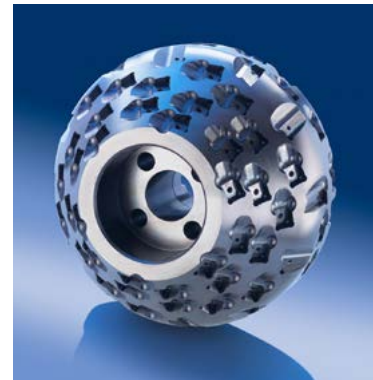
- EN/AS 9100



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We manufacture parts in large dimension!



FerRobotics Compliant Robot Technology GmbH

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Austria | Österreich

Herbert Eisinger
T +43 / 720 / 108 107 - 01
E office@ferrobotics.at
W www.ferrobotics.com

RESEARCH
DEVELOPMENT
PRODUCTION



FerRobotics is the technology leader in sensitive robotics. The company's adaptive robot solutions close gaps in automation and improve the performance and efficiency in dynamic automation processes with high levels of sensitivity and flexibility. Top quality is the utmost priority. FerRobotics' experts, service task force and international distributor network provide full support on all sensitive automation issues.

Technologies and competences

FerRobotics makes robots feel what they are doing. The industry gold standard is contact-intelligence to automate tricky handwork such as in sanding, grinding, deburring, handling, etc. The innovative tuning-kits are suitable for any common type of robot with easy implementation and job modifications. Flexible, adaptive robots deliver constant high quality in dynamic flows, increase productivity and ensure process safety.

Products and services in aviation

- ACF: equipment to sand, grind, handle, etc. big parts, fully automated
- ABG: active belt grinder for small work pieces; fully automated
- ASK: fully automated grinding of tricky welding seams, roof joints, etc.



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RESEARCH
DEVELOPMENT

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FH | JOANNEUM

Luftfahrt / Aviation



The teaching and research on the degree courses and at the institutes is divided into six thematic departments. The focus is on future career programmes and social and economic topics. The university is guided by international standards, promotes interdisciplinary and cross-departmental cooperation and has established close networks with its partners and the scientific community.

Technologies and competences

The mobility research focuses on aircraft systems, aerodynamics and thermal management. This portfolio is complemented by research activities in lightweight design and new, easily recyclable materials. The Institute of Aviation is part of the Department of Engineering, which is equipped with state-of-the-art testing facilities, simulators and cutting-edge design and simulation tools.

Products and services in aviation

- Aircraft and UAS concepts, composite materials, material testing
- Aircraft systems, avionics, CNS/ATM, flight controls, de-/anti-icing
- Flight operations and aviation industry, human factors
- Flight simulation and training, operation of research aircraft
- Research infrastructure: Unmanned Aerial Systems, research and training flight simulators, High Performance Computation laboratory (CFD/FEM simulations), Avionics laboratory, Composites laboratory.



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FH Wiener Neustadt | University of Applied Sciences

Aerospace Engineering Department

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**FACHHOCHSCHULE
WIENER NEUSTADT**
Austrian Network for Higher Education
University of Applied Sciences

RESEARCH
DEVELOPMENT

The Aerospace Engineering Department was founded in 2012. Being well connected with the regional air and space as well as local aviation industry, the Department focuses on their present and future needs. Together with the University's own research partner Fotec, the AE Department designs, manufactures and tests new systems.

Technologies and competences

The AE department focuses on the use of modern materials and manufacturing methods for aerospace components. This includes the simulation of manufacturing methods for C-C composite and verification of the models. In addition, together with its R&D company, FOTEC, the AE Department investigates the use of additive layer manufacturing methods for a variety of aerospace applications.

Products and services in aviation

- CubeSat and test facilities for CubeSat subsystems
- Structural components based on composites
- Structural components based on additive layer manufacturing
- Laser Sinter Maschine (Additive Layer Manufacturing)

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RESEARCH
DEVELOPMENT
PRODUCTION

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Fill is a leading international machine and plant manufacturing company serving diverse branches of industry. Business operations encompass the fields of metal, plastics and wood for the automotive, aircraft, wind energy, sport and building industries. Andreas Fill and Wolfgang Rathner are joint CEOs of the company founded in 1966 that is still completely family-owned and now has more than 715 employees. In 2016, the company recorded sales of 145 million euros.

Products and services in aviation

- Hot drape forming
- RTM processes
- Non-destructive inspection
- Robot drilling and counter sinking

Technologies and competences

With many years of experience in the plastics industry and concentrated automation expertise, Fill Machine Engineering develops highly cost-effective concepts for manufacturing and inspecting fiber-composite components. The modified Accubot articulated robot is the latest innovation for highly accurate machining or precisely positioned inspection of plastic components. The Accubot closes the gap between manual processing and heavy CNC machining centers.

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DEVELOPMENT
PRODUCTION

Flex

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Flex, formerly Flextronics, is the leading Sketch-to-Scale™ solutions provider that designs and builds intelligent products for a connected world. With more than 200,000 professionals across 30 countries, the company provides innovative design, engineering, manufacturing, real-time supply chain insight and logistics services to companies of all sizes in various industries and end-markets.

Aviation standards and certifications

EN/AS 9100

Technologies and competences

Flex Althofen has more than 20 years of experience in managing low volume/high mix programmes with long product life cycles and focuses on highly reliable products. The company offers vertically integrated capabilities like machining, metal stamping, plastic moulding, assembly of multi-layer, high complexity/high density printed circuit boards, mechanical assembly & integration of enclosures and subassemblies.

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RESEARCH
DEVELOPMENT

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FL/GHTKEYS

Flightkeys is a Vienna-based software development company, specialised in the field of flight planning and optimisation, both for commercial airline and business jet flight operation. The company was founded in 2015 by a team of aviation solution experts with a successful track record of entrepreneurship.

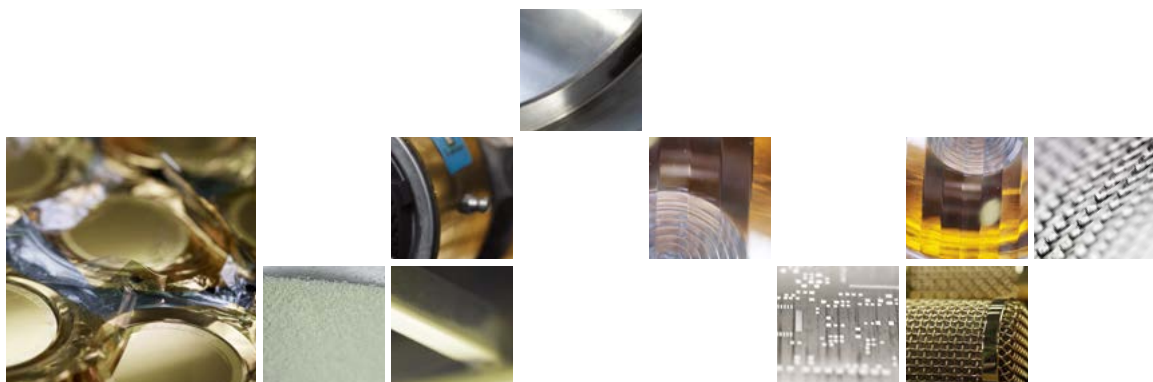
Technologies and competences

Flightkeys' mission is to completely re-write the science of flight management for the 21st century by precisely meeting the emerging requirements of cost-optimised airline operations, trajectory-based operations and reduction of emissions; the focus is on user-friendly systems that provide the ultimate level of cost optimisation and integrate seamlessly into airline operations and ATM systems.

Products and services in aviation

- Flightkeys5D Trajectory Planner & Optimizer for Commercial Airlines and Business Jet Operations
- Data Management and Services (NavData, NOTAM, Weather etc)
- FP Modules for Commercial Airlines and Business Jet Aviation
- System Integration & 24/7 Support Services

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W www.frequentis.com

RESEARCH
DEVELOPMENT
PRODUCTION



Frequentis AG is an international supplier of communication and information systems for control centres with safety-critical tasks. These 'Control Centre Solutions' are developed and distributed by Frequentis in the business segments Air Traffic Management (civil and military air traffic control, AIM, air defence) and Public Safety & Transport - with references in more than 130 countries worldwide.

Products and services in aviation

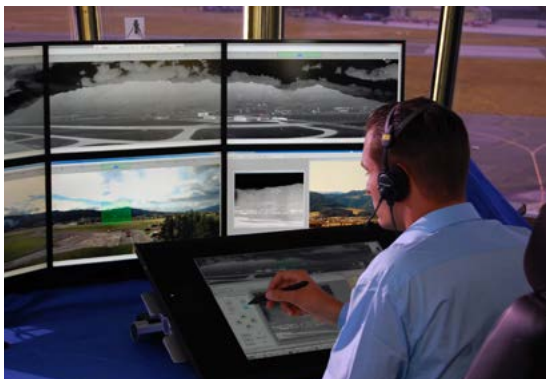
- Voice Communication Systems
- ATM Solutions
- Voice Switch/Server
- Radio Network & ATM-grade IP network solution
- Integrated & Remote Tower
- Aeronautical Information Management



Technologies and competences

- Networked Voice Communication Services based on TDM and VoIP
- Decision Support Tools
- Human actors and human-machine interface expertise
- Safety Analysis
- Information Systems

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RESEARCH
PRODUCTION

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Fuchshofer is a modern and committed manufacturing company that is specialised in CNC precision technology, additive manufacturing, ultrasonic technology and mechanical engineering. The company is a system supplier, from the raw materials to assembly.

Technologies and competences

Fuchshofer's major strength lies in their experience with a great variety of material qualities:

- stainless steel, case-hardened steel and tempered steel
- aluminium
- titanium
- non-ferrous metals like bronze or brass
- plastics
- advanced materials, e.g. ceramic, glass, hard metals, composites, silicon, graphite, mother-of-pearl, gemstones

Products and services in aviation

- mechanical and additive manufacturing of components
- manufacturing consulting

Aviation standards and certifications

- ISO9001 and ISO14000



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www.aeronautics.at



General Solutions Steiner GmbH

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The goal of General Solutions is to develop state-of-the-art software products which are ahead of the latest technology. The company is not only specialised in software solutions for tourism, such as maps and apps, but also in crisis management software for airlines, emergency services, governmental institutions and communities. General Solutions is a modern company, whose flexibility motivates to individual performance.

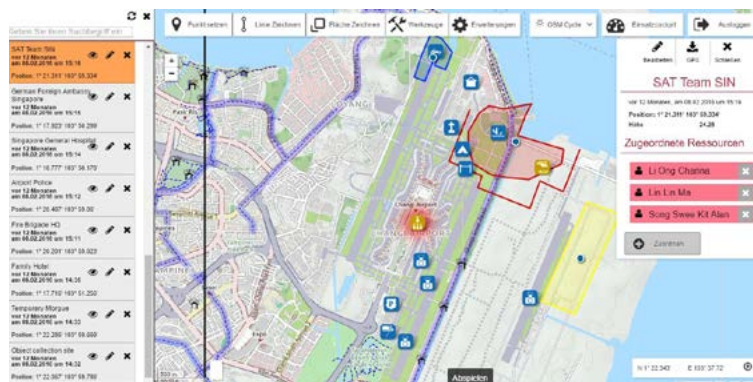
Products and services in aviation

- CASE 2 - documentation of activities for family assistance
- Contwise LISA - visualisation and log keeping for crisis management

Technologies and competences

With its broad positioning of software solutions, General Solutions strengthens and increases the communication and crisis management standards for airlines, especially in the aftermath of an incident or accident. The company works together closely with its partners and major airlines to fulfil their needs for documentation in short and long term support situations. The products are web-based without the need of special hardware.

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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

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Greiner aerospace has made an international name for itself as a leading manufacturer of innovative solutions for aircraft seats. At five locations worldwide, Greiner aerospace produces high quality cushions and dress covers. From individual products, components or assemblies for the economy, premium economy, business or first-class sectors, Greiner tailors products to specifically meet the customers' requirements.

Technologies and competences

Greiner excels as a complete service provider, from the selection of material, prototype construction and fire testing to serial production of seat cushions and dress covers for aircraft. A full range of styles, comfort requirements and design in the highest quality are available. The focus is on delivering extremely lightweight solutions which are able to withstand the rigours of daily use with a high-quality finish.

Products and services in aviation

- Aircraft cushions
- Dress covers
- Assemblies (cushions, dress covers, headrest, legrest, literature pockets)
- Fire testing

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA



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© Greiner aerospace 2014/2015
Embossed designs on leather and fabric



© Greiner aerospace 2014/2015
Innovative light-weight cushions and covers



Haumberger Fertigungstechnik GmbH

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3441 Judenau
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Wolfgang Haumberger
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E fertigung@haumberger.at
W www.haumberger.at

PRODUCTION



Haumberger produces high-quality CNC manufactured parts for the aircraft industry. By concentrating on the manufacturing of individual parts and small series, the company can offer a high level of flexibility and specialisation. Another division of the company supports customers in the building of special purpose machines and automation projects, from the project phase up to the finished system.

Products and services in aviation

- drive components
- chassis components
- engine components
- interior components

Technologies and competences

For customers in the aviation sector, Haumberger carries out contract manufacturing based on customer drawings in various chip removal machining technologies (milling, turning, eroding, drilling). Modern CNC-controlled and also conventional processing machines are used for chip removal by a well trained and experienced team. The company has special competency in the areas of 3D and 5-axis machining.

Find us directly at
www.aeronautics.at



HDEMC Hessenberger GmbH

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The scope of HDEMC Hessenberger GmbH covers the areas of measurement, development and design, as well as whole projects. By combining these sub-areas HDEMC can offer an integrated management of overall solutions.

The realisation of an idea, from its initial development and conception through prototyping and tool construction up to the finished mass-produced component, is possible from a single source.

Technologies and competences

- concept & development
- 3D construction
- visualisation
- prototyping
- pilot series
- series production
- graphic design
- packaging design

Technologies

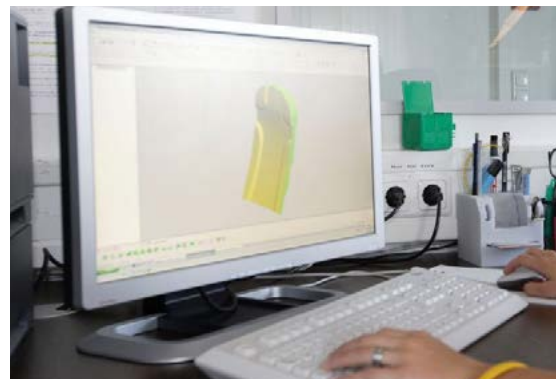
- visual-tactile 3D surface metrology, X-ray measurement, optical 3D surface roughness measurement
- Reverse engineering: geomagic studio quality control, geomagic qualify gom-inspect Engineering: Catia V5/V6 Think 3 AutoCAD virtual modelling freeform

Products and services in aviation

- aircraft seat construction, development and prototyping
- development, construction and production with foaming tools



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www.aeronautics.at



HELDECO CAD/CAM Fertigungstechnik GmbH

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Heldeco is an Austrian Leading Company, founded in 1991 and specialised in the production of complex prototyping parts, single and serial parts for the industry. Clients trust in the company's competence and their ability to comply with their guiding principle, which is namely "highest quality for highest demands". Heldeco is ISO 9001 and EN9100 certified and able to manufacture parts from low weight up to 30 tons p. piece

Technologies and competences

Mechanical production from programming, production and assembly through to quality control (NDT) and acceptance tests (3.1, 3.2) and from prototyping to large-scale production.

Heldeco's competences cover: the development of production processes - milling, drilling, turning, grinding, welding, grooves, honing, quality control

Products and services in aviation

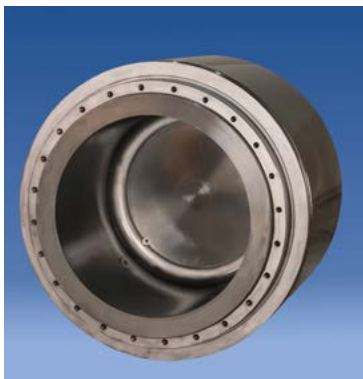
- structure parts, customised parts, from prototyping to series parts
- manufacturing of high quality products by CNC-milling, drilling, turning
- NDT, (VT, PT, MT, UT) Non Destruction Testing, 3.1 and 3.2 acceptance tests
- Material spectrum: all metal alloys, metallurgic special and super alloys

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

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RESEARCH
DEVELOPMENT

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HELIOS Helicopter was founded in 1995 as a commercial helicopter operator. Since 2012 the company has focused on the research and development of highly efficient wing and rotor blade tips.

Products and services in aviation

Research and development of highly efficient wing / rotor blade tips

Technologies and competences

Noise and drag reduction on wings & rotor blades. Inspired by nature: Efficient. Easy. Clever.

The biomimetic innovation SilentEcoWing was inspired by birds' wings. With its "feather-like structure" the large air vortex rising on the wing's edge is separated extremely efficiently into several small vortices. This decisively reduces the drag and noise emissions and increases the lift. SilentEcoWing will be adapted onto different wing and rotor blade tips.



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Flight tests with SEW tips on AS 350 M/R blades



Flight tests with SEW tips on a fixed wing



Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION



HICO, founded 1997, establishes economical, efficient and sustainable software solutions, consultancy and services for Integrated Product Support (IPS). Integrated Product Support (IPS) ensures the maximum system availability, up-to-date product and service information and low cost for Maintenance. HICO supports you to «avoid unwanted surprises» when operating a complex technical system.

Products and services in aviation

- HICO iLS.Suite® - Integrated Product Support Suite
- HICO ietdSuite® - Integrated Authoring Environment for TechPub-Authors
- HICO X-Browser® - Offline IETM-Browser
- Integrated Product Support Trainings, Workshops & Consultancy



Technologies and competences

The company provides consultancy services and software solutions for creating, managing, publishing and communicating Technical Data and Material Provisioning & Supply according to the international specifications S1000D, S2000M, S3000L and ATA iSpec2200. The usage scenarios comprise solutions like interactive technical publications and maintenance operations planning for complex technical systems.

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RESEARCH
DEVELOPMENT
PRODUCTION

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HILITECH

HILITECH is a joint venture between F/LIST, an internationally successful manufacturer of high-quality interiors for business and private jets, and the Hintsteiner Group, a major player in material technology and automotive racing prototype construction.

Technologies and competences

HILITECH produces lightweight cabin systems for business and private jets. The company's extensive expertise in the industry offers many additional advantages, e.g. coverage of all steps from development through to serial production, enormous flexibility thanks to in-house design, engineering and tooling and optimisation of ideas through expertise in aviation, motor sports, defence and maritime technology.

Products and services in aviation

- Lightweight cabinets and components for business & private aviation: galleys, tables, wardrobes, dividers, shower basins, toilets...
- Lightweight lining solutions for cockpit, cabin or cargo area.
- Carbon fibre surfaces for decorative applications in aviation.



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Material technology to defy gravity



HILITECH supplies parts for Embraer Lineage 1000E



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RESEARCH
DEVELOPMENT
PRODUCTION



With 70 years of experience Hitzinger is a world leading company in engineering, development, production and sales for special customized alternators, airport equipment, converters, diesel generating sets and uninterruptible power supply systems. The company is certified according ISO 9001, 14001 and well experienced to execute challenging projects.

Technologies and competences

- International special-purpose machinery construction and system construction
- Electrical engineering, power electronics
- Safety systems (controllers for multiple UPS systems)
- Rotary electric machines (converters, alternators, energy accumulators)
- System planning (initial information, submission and implementation planning of complete systems)

Products and services in aviation

- D POWER: Diesel Driven Ground Power Supply. The JET POWER is the little sister to the D POWER.
- S POWER: Static Ground Power Supply
- R POWER: Rotary Ground Power Supply
- Aircraft Connection Systems: PIT POWER and S POWER C

Aviation standards and certifications

- EN/AS 9100
- EN/AS 14001



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Aviation Technologies

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DEVELOPMENT
PRODUCTION

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HMW's know-how for your tailor-made solutions. The HMW company has been involved in the sector of hardening and heat treatment technology since 2003. The company's expertise is characterised by the understanding of material demands, production technologies and of course the optimisation of heat treatment solutions with focus on the complete production chain.

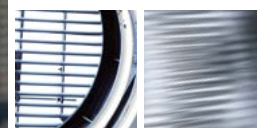
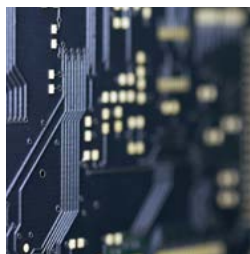
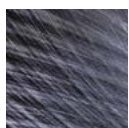
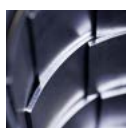
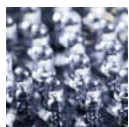
Products and services in aviation

- Development and optimisation of heat and surface treatment solutions
- Heat Treat Service for serial/mass production
- Research and consultancy within international R&D programmes

Technologies and competences

Heat Treatment Services from the R&D stage to upscaling for serial production. Case and surface hardening, tempering, carburizing, nitriding, ageing and cryogenic treatments are provided by the following processes: seal quench, vacuum, induction, plasma and laser technologies. Material investigations as well as external logistic services (door to door deliveries) are a matter of course.

Find us directly at
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DEVELOPMENT
PRODUCTION



HOFMANN Wärmetechnik has been building furnaces since 1946. The company is very customer and solution oriented in the way it works and is characterised by its very high quality standards, as well as its adherence to delivery dates. The systems delivered by HOFMANN Wärmetechnik are planned, built and tested in Hellmonsödt. Under the slogan “Everything from a single source”, the assembly and start-up is carried out by their company’s own personnel.

Products and services in aviation

- solutionising furnaces
- soft annealing furnaces
- tempering furnaces
- ageing furnaces

Aviation standards and certifications

- AMS2750E (aerospace material specification, pyrometry)

Technologies and competences

HOFMANN Wärmetechnik is specialised in the project work and manufacture of customer-specific heat treatment systems for materials. This includes furnaces for aluminium alloys that are used in the aviation industry. The systems meet the requirements of common aviation standards, specifically with regard to temperature accuracy, recording and documentation of charge data.



Find us directly at
www.aeronautics.at



HOS-Technik Vertriebs- und Produktions-GmbH

Obersteigerweg 4
9431 St. Stefan
Austria | Österreich

Florian Schwarzl
T +43 / 4352 / 525 87
E hos@hos-technik.at
W www.hos-tec.com



HOS-Technik GmbH was established in 1988 as a privately owned chemicals factory. The company can therefore draw on many years of experience in the development of high-performance polymers. The product spectrum spans from maleimides and its derivatives, to thermoset and thermoplastic resins for high-temperature applications, as well as metal-organic catalysts and micro-beads on polyurethane and polyacrylate basis.

Technologies and competences

HOS-Technik is specialised in the production of different duroplastic bismaleimide resins for high-temperature applications. The products are mainly used for the production of prepregs (e.g. for tooling applications), laminates and composites. All of the resins are duroplastic, single-component systems which can be cured by application of heat. No additives or catalysts are required for polymerization.

Products and services in aviation

- Homide 250/250L: Powdery resin/resin solution
- Homide 400/400L: Resolidified melt/resin solution
- Homide 801/801L: Resolidified melt/resin solution
- Homide 802/802L: Resolidified melt/resin solution



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HTP High Tech Plastics GmbH

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Austria | Österreich

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DEVELOPMENT
PRODUCTION



HTP Aircraft is the HTI competence centre for the development and manufacture of lightweight components made of plastic for the aviation industry. The focus is on component design and development for all interior components in the aircraft (metal and plastic).

Technologies and competences

HTP Aircraft is specialised in the processing of high-temperature plastics using an injection moulding process with different surfaces (painted, foil decoration, chrome, etc). This means the company can implement build-to-print and built-to-spec variations, or alternatively deliver the product to the customer as finished assembly components.

Products and services in aviation

- cabin window units for business and economic aircrafts
- luggage compartment locks for business and economic aircrafts
- covers and functional plastic parts for business and economic aircraft

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT
PRODUCTION

HYBRID COMPOSITE PRODUCTS GmbH

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8724 Spielberg
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HYBRID COMPOSITE PRODUCTS focuses on development, production and assembling of polymer and multi-material products. Development and functional testing of injection and EXJECTION® moulds.

Technologies and competences

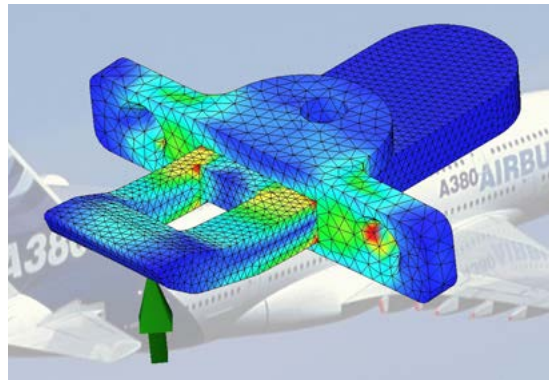
Development and production of very long, thin-walled components with functional geometries by use of the new EXJECTION® technology. Development and production of injection moulded components made of multi-materials, e.g. polymer-metal, polymer-ceramics, polymer carbon fibre and processing of high temperature polymers like PPS, PEI, PEEK.

Products and services in aviation

- Production of multi-material parts
- Production of prototypes and test samples
- Development of interior parts
- Assembly of functional units



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IB STEINER

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The business services of IB STEINER focus on the fields of technology and innovation management in polymer engineering. The company implements the development of products and components, from the design stage through to serial production, with short development times, the precise achievement of objectives with calculable risk and low total costs.

Technologies and competences

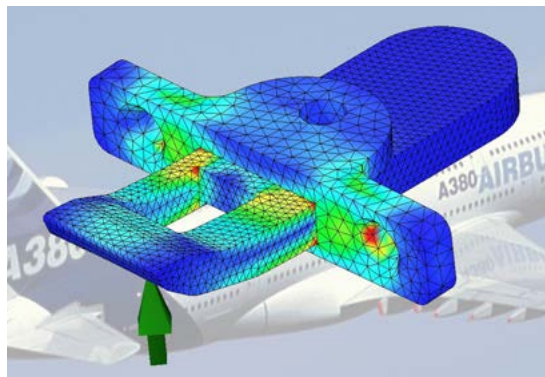
IB STEINER develops and optimises the entire range of polymer products, for example for interior aircraft parts, feasibility studies, simulations of mechanical loading, failure analysis including thermal analysis and moldflow simulation. The EXJECTION® technology was developed and patented by IB STEINER.

Products and services in aviation

- Development of window reveal assys
- Development of window shade assys
- Development of latching units for overhead stowage compartments
- EXJECTION® technology



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i.c.i.c. - Idea Creativity Innovation Competence

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Structured support for your company in your search for the best innovations. i.c.i.c. can offer highly efficient support in structuring your research and development projects, maximising your market impact and improving the performance of your products and services. The company uses the best innovation tools available on the market – proven in the course of many challenging projects in different industries.

Technologies and competences

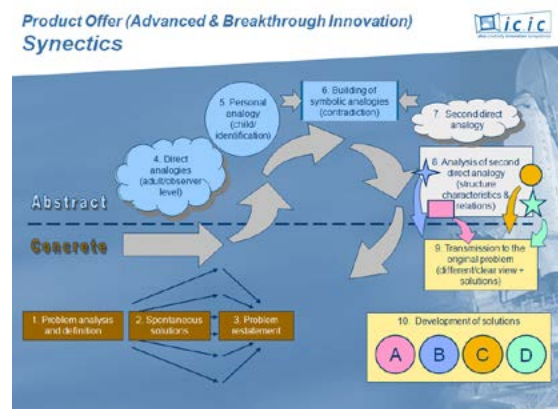
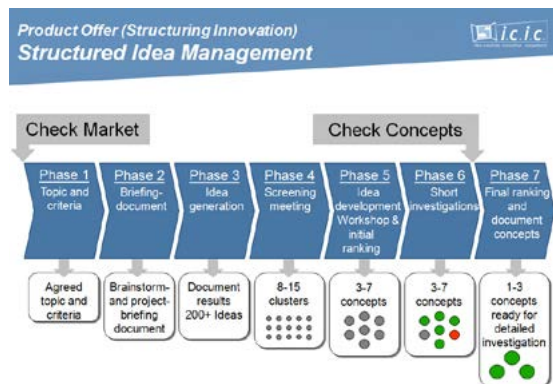
Your teams will be led through a project and/or structured workshops using the best innovation tools such as: Structured Idea Management, Lead Users Research, Blue Ocean Strategy, Synectic Method, Innovation Risk Management, etc. If required, the Open Innovation approach is often applied and i.c.i.c. works with your customers, lead users and specialists in your industry, as well as those from foreign industries.

Products and services in aviation

- InnoWING - 4 steps to maximise the innovation power of your company
- Structured Innovation Management – using the best innovation tools
- Breakthrough innovation - structured route to top performance
- Implementing the innovation culture in your organisation



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IN-VISION Digital Imaging Optics GmbH

Industriestrasse 9
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W www.in-vision.at



RESEARCH
DEVELOPMENT
PRODUCTION

IN-VISION, a one stop shop, is specialised in development and manufacturing of optical Lenses and Projection Systems for Simulation.

Further products: Digital Cinema Lenses, Light Engines for 3D-Printing-Metrology-Lithography.

Strengths: Professional design of optics, coating, electronics and mechanics; Manufacturing, assembly, quality dept., optical lab; International references and network

Technologies and competences

IN-VISION Technologies: DLP System design for Digital Projection and Light Engines (Design House Partner of TEXAS INSTRUMENTS), Optic design, Coating design, Electronic design, Mechanic design, Modern machine equipment for optics, coating and precision mechanics, International cooperation and Research Partners

Products and services in aviation

- Optical Lenses and Projection Systems for Simulators
- Light Engines for 3D-Print- Metrology and Lithography
- Lens and System Design, Production

Aviation standards and certifications

- Customer specified standards



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The company Ing. Prägler GmbH is a service enterprise in surface technology, specialising in the refining of precision parts, predominantly made of aluminium, for precision mechanics, optics, medicine, flight and space technology. Services and technical facilities are continually adapted to meet the requirements of the customers. The company operates according to the quality management system ÖNORM EN ISO 9001 and the environmental management system according to ÖNORM EN ISO 14001, as well as the safety and health management system OHSHS 18001. Improvements are carried out continuously.

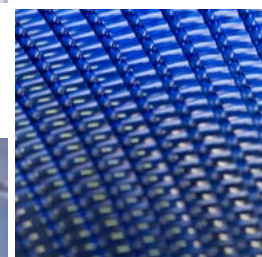
Products and services in aviation

- Anodising of technical or decorative components in various colours
- Hard anodising of components between 30-50 µm, also coloured
- Chromatising of aluminium (Chromium VI + Chromium VI free)
- Passivation of CrNi steels

Technologies and competences

- Anodising
- Dimension anodising
- Hard anodising
- Anodised printing
- Chromatising (Chromium VI + Chromium VI free)
- Passivation of CrNi steels
- Browning
- Titanium anodising

Find us directly at
www.aeronautics.at



INTALES GmbH

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INTALES

Founded in 2004 in Innsbruck by highly experienced engineers from the Austrian and German aerospace industry, INTALES offers the full spectrum of aerospace structural analyses. In cooperation with the University of Innsbruck and other European research institutes, the company develops advanced strategies, methodologies and software tools to be used by their international customers.

Technologies and competences

With its team of analysis specialists and excellently educated young engineers, INTALES provides innovative solutions for the analysis of highly loaded and complex lightweight structures. INTALES processes extremely large FE models, e.g. for nonlinear analysis, by automating the complete analysis sequence. In-house analysis tools are available for the optimisation of structures.

Products and services in aviation

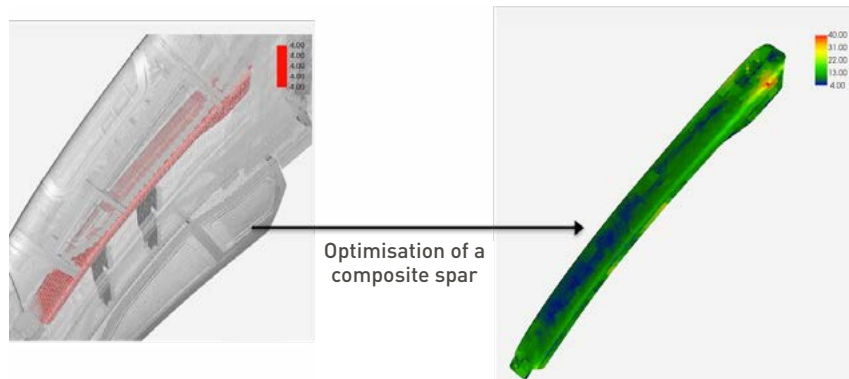
- structural analysis
- development of analysis strategies and methods
- programming of analysis software
- design optimisation/risk-based design

Aviation standards and certifications

- EN/AS 9100



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DEVELOPMENT
PRODUCTION

ISOVOLTA AG

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E general.aviation-transportation@isovolta.com
W www.isovolta.com



As a leading international manufacturer of electrical insulating materials, technical laminates and composites, the ISOVOLTA Group is active throughout the world. More than 10 production and sales locations in 12 countries on three continents rely on the many years of experience in the synthesis and transformation of raw materials into highly reliable, intelligent materials.

Technologies and competences

ISOVOLTA is the only company worldwide that can develop and deliver technical and decorative products for aircraft cabin interiors. Special prepregs for exterior structure parts complete the unique product line. Its own design department, a fire-testing laboratory as well as a development department complement the range of competences. The resulting products and services are approved by all leading OEM manufacturers.

Products and services in aviation

- Airdec decorative laminates: multilayer films for the decoration of interior elements
- Airpreg prepregs: different glass or impregnated carbon fibre fabrics
- Airvolt technical laminates: multilayer prepregs pressed

Aviation standards and certifications

EN/AS 9100



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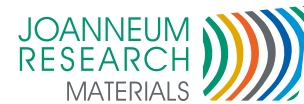


JOANNEUM RESEARCH Forschungsgesellschaft mbH

MATERIALS – Surface Technologies and Photonics

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Thanks to its many years of experience, Joanneum Research can offer laser and plasma-assisted deposition and processing services based on in-depth material expertise, as well as develop processes tailored to suit the component properties. Competent advice, process development, small batch production, transfer into serial readiness, as well as process optimisation and quality management are the company's strength.

Technologies and competences

Advice in laser processing. Process development in the fields of laser welding, laser alloying and (3D) laser cladding. Support in the development of plant concepts and process transfer into serial production. Process optimisation and quality assurance. Integration in production processes. Laser beam diagnostics. Laser and plasma-assisted deposition methods in vacuum and atmospheric pressure.

Products and services in aviation

- Selective laser melting, welding, cladding, alloying
- Wear resistant and ultra-low friction DLC-MoS₂ coatings in vacuum
- Geopolymer-based composites
- Thermal barrier, infrared reflective and oxidation resistant coatings
- Film deposition, materials structuring and characterization methods
- Industry standard lasers and NC-controlled machining systems
- Sensor and electronics development
- Modelling and simulation



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Aviation Technologies

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RESEARCH
DEVELOPMENT

Johannes Kepler University Linz - Institute of Structural Lightweight Design

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E martin.schagerl@jku.at
W www.i kl.jku.at



The Institute of Lightweight Design is part of the Faculty of Engineering and Natural Sciences at the JKU Linz. The Institute offers academic courses for students of mechatronics and polymer sciences and on request also training for external institutions. Research projects are conducted with numerous partners from the industry, particularly with aerospace companies and material manufacturers.

Technologies and competences

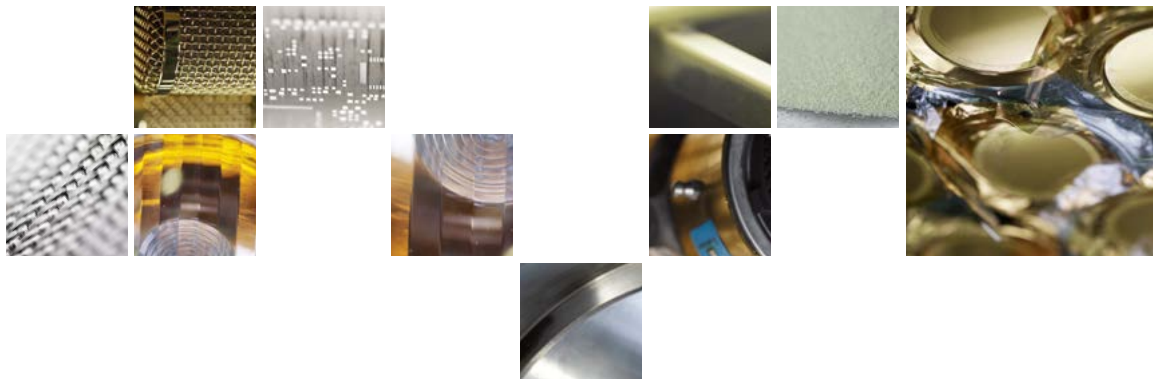
The Institute's research work focuses on the development of validated lightweight design concepts for industrial application. Fields of research are structural analysis methods for static strength, fatigue and damage tolerance, numerical methods for structural design and structural analysis, specific properties of lightweight materials and joining technologies, and structural health monitoring.

Products and services in aviation

- strength design and computer-aided optimisation of aircraft structures
- calculation methods and tools for aircraft structural analysis
- specification of structural strength tests
- flexible test rig to perform static and fatigue strength tests on structural components and assemblies
- development of structural health monitoring devices



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Johannes Kepler University Linz - Institute of Fluid Mechanics and Heat Transfer

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Philipp Gittler
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W <http://fluid.jku.at>



Research efforts at the Institute comprise several engineering topics, like metallurgical flows and multiphase flows, but also aerodynamics. The Institute is well equipped regarding both soft- and hardware for Computational Fluid Dynamics (CFD), as well as with measurement systems for laboratory experiments. Aerodynamics research focuses on induced drag, flow simulation of small aircraft and of airfoils with deflected flaps, spoilers or slats, etc.

Technologies and competences

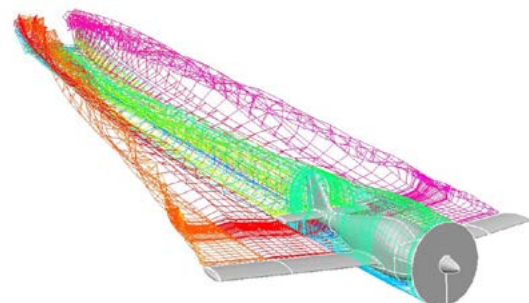
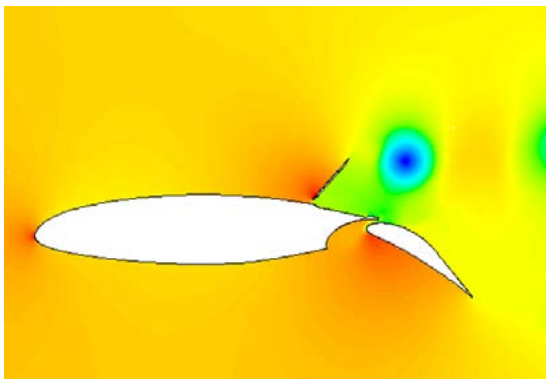
The Institute has nearly 20 years of experience concerning numerical flow simulations of industrial and engineering flows as well as about 15 years of experience with flow measurements, especially with optical methods like PIV and high speed camera imaging and with Constant Temperature Anemometry. It is embedded in a highly interdisciplinary research environment with a focus on mechatronics.

Products and services in aviation

- induced drag reduction of lifting surfaces
- numerical simulation of aircraft and aircraft components
- numerical simulation of fuel pumps
- numerical simulations of airfoils
- computing cluster
- software (finite volume- and vortex panel code)
- measurement equipment (particle image velocimetry, constant temperature anemometer, acoustic Doppler velocimeter, highspeed-camera)



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www.aeronautics.at



Kabeltechnik Peter Sporrer GmbH

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KTS was founded in 1993 and since then has been engaged in the development and production of cable and wire harness systems for aviation, aerospace and military applications. From the prototype to serial production - from single components to the complete manufacturing package - everything from one source, on time. Delivery of packages or complete cable harness with EASA FORM 1.

Technologies and competences

Production of cables and complete wire harness systems for the aircraft industry. Mechanical, electrical systems and electronic parts. Exclusive authorised distributor for DMC - Daniels Manufacturing Corporation - crimping tools in accordance with M22520, insertion and removal tools. Wire-marking to customer specification with UV-laser-marker.

Products and services in aviation

- Production of cables and wire harness systems for the aircraft industry
- Exclusive authorised distributor and repair shop for DMC crimping tools
- Kitting for the aircraft industry
- Harnessing for in-flight entertainment systems

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21G



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Kobleder GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION

kobleder®
Wir stricken Ideen!

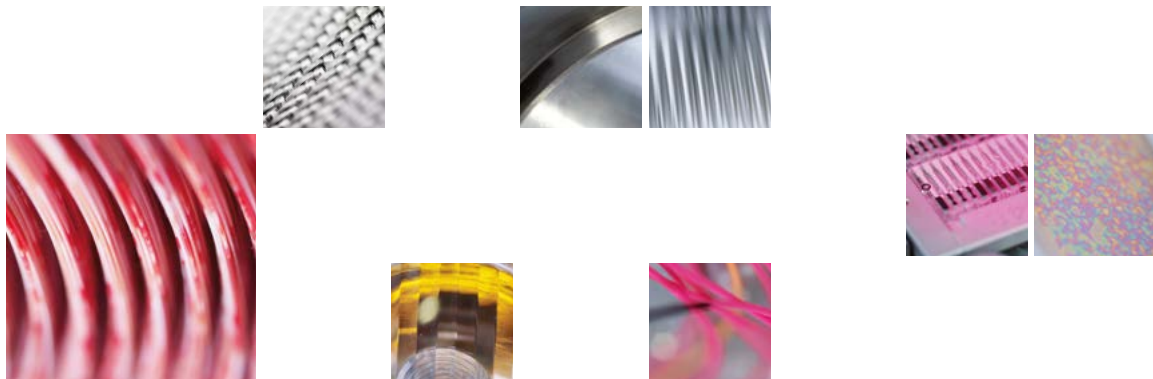
Kobleder - knitting ideas. Kobleder is a family-owned company and a specialist in technical knits for applications in aircraft, automotive and other transportation industries, seating furniture, reinforcement knits for composites (multi-axial, i.e. glass, basalt etc.), 3-D structures, sports and protective apparel, illuminations and lighting end-uses. They can take care of your product(s) too.

- low weight with high durability
- cost saving as no additional cutting, trimming and sewing required

Technologies and competences

- most modern flat bed knitting and highly qualified development staff
- seamless products, made to shape for immediate use
- outer and inner design can be customised
- openings for frames, tubing or customer inserted parts are incorporated into the knit as needed

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www.aeronautics.at



Lakeside Labs GmbH

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Lakeside Labs

SELF-ORGANIZING NETWORKED SYSTEMS

Lakeside Labs is a science and technology cluster in the information and communication technology sector, focusing on the future-oriented topic of self-organising and networked systems. It offers space for creative ideas, high-quality research and industry related, application oriented projects. Lakeside Labs links universities, research institutes and industrial companies.

Products and services in aviation

- (multi-) UAV mission planning, coordination and control
- intra-vehicle sensor networks for monitoring applications
- Aerial robotic lab

Technologies and competences

The multi-UAV project is developing a system for aerial sensing based on coordinated wireless networked micro-drones. Several micro-drones will fly in formation over the area of interest in a self-organising way and deliver high-quality sensor data such as images. These are merged on the ground, analysed and delivered to the user - like Google Earth with high resolution pictures in real time.

Find us directly at
www.aeronautics.at



Langzauner GmbH

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Langzauner produces presses and automation systems for composite parts production. From development through individual production to assembly: all these steps bear the hallmark of Langzauner. The outstanding know-how and the high levels of motivation and flexibility of our employees benefit our special solutions in the fields of presses and automation technology on a day-to-day basis. This results in machines which are tailored to our customer's requirements in an optimum way.

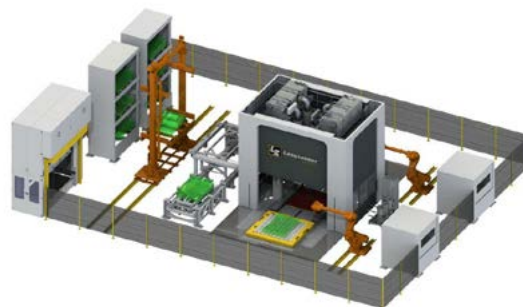
Products and services in aviation

- composite press
- RTM press
- thermoplastic composites press with infrared heating
- automation systems for composites parts production

Technologies and competences

Langzauner provides hydraulic presses for every kind of process like RTM, SMC, BMC, Prepreg, thermoplastics, etc.

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www.aeronautics.at





RESEARCH
DEVELOPMENT

LieberLieber Software GmbH

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LieberLieber Software is specialized in the field of model-based software engineering, focusing specifically on extensions for Enterprise Architect (Sparx Systems) and customizations for a variety of industries and applications. LieberLieber offers: Consulting, scope analysis, creation of individualized tools, integration in existing tool chain, tailored training and continual support.

Products and services in aviation

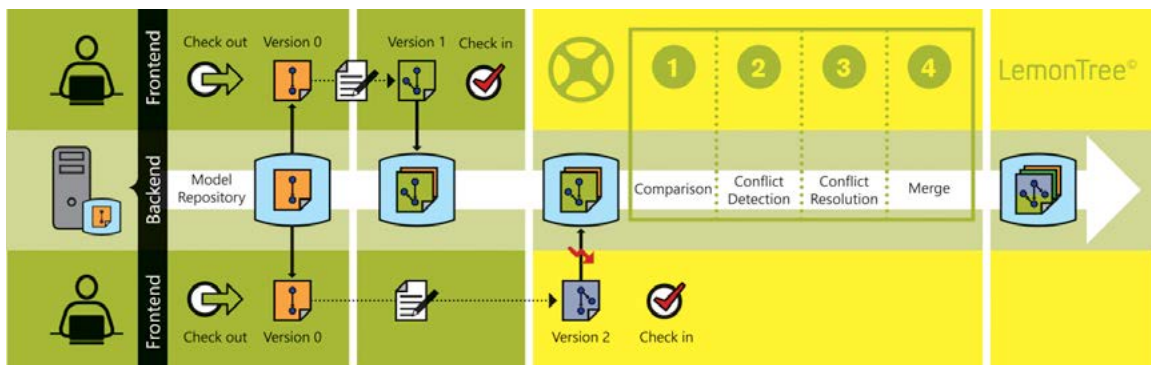
- Embedded Engineer: Source-code generation and debugging on model level
- LemonTree: Model versioning tool for distributed development teams
- Service: Model-based software and systems engineering

Technologies and competences

LieberLieber creates solutions based on modern technologies such as UML/SysML, model simulation, DSL and MDE for software systems (including embedded systems). „Embedded Engineer“ combines automated source-code generation with debugging on the model level. “LemonTree” is a model versioning tool that revolutionizes productivity of development teams while supporting adherence to standards.



Find us directly at www.aeronautics.at



LiteCon GmbH

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PRODUCTION

The joint venture LiteCon was established by Secar Technologie GmbH and Evonik Industries AG in 2013. The company is located in Hönigsberg/Austria and focuses on highly innovative solutions for customers. LiteCon produces three-dimensional foam cores for composite serial production.

Products and services in aviation

- ROHACELL® Triple F foam cores

Technologies and competences

ROHACELL® Triple F core is customized and integrates also the functions as metal insert co-moulding. It offers the possibility to produce complex structures without machining and in large quantities.

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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

Luxner Engineering ZT GmbH

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Mathias Luxner
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W www.luxner-zt.com



LUXNER Engineering is a comprehensive service provider in the field of analytical and numerical computations of aviation structures. In addition to mechanical modelling and analyses of strength, fatigue and damage tolerance of lightweight structures (incl. finite element simulations), the company offers the development and software-implementation of analysis methods for customer-specific analysis tasks.

Products and services in aviation

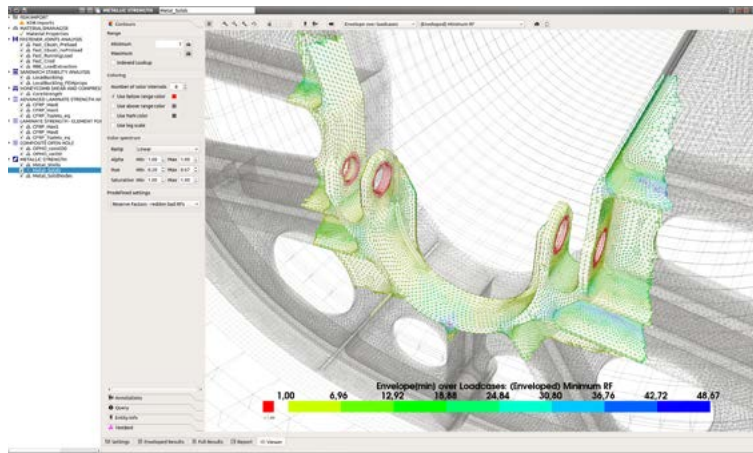
- stress analysis for structural elements made of composite materials and/or metal
- development and implementation of customer-specific analysis tasks
- software development for the simulation and analysis of lightweight structures
- fatigue and damage tolerance assessment for structural elements

Technologies and competences

Numerous research and industry projects on the failure and damage of composites, non-linear finite element simulations, as well as fatigue and damage tolerance mean that LUXNER Engineering is a link between research and industry. The company is therefore a preferred partner for the development and implementation of new analysis and evaluation methods in the aeronautics industry.



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RESEARCH
DEVELOPMENT
PRODUCTION

Magna Steyr Aerospace is a business division of Magna Steyr Engineering AG & Co. KG, a subsidiary of Magna International, one of the largest automotive suppliers worldwide. Magna Steyr Aerospace works on the research, development and production of components and subsystems made of metallic and composite fibre materials for the aerospace industry.

Technologies and competences

As a competent partner of many notable companies in the aerospace business, Magna Steyr Aerospace provides special knowledge in the field of tubing, ducting and storage systems for fluids such as fuel, bleed air, helium, hydrogen and oxygen. They provide a full service, from development to production including qualified welding and non-destructive testing processes.

Products and services in aviation

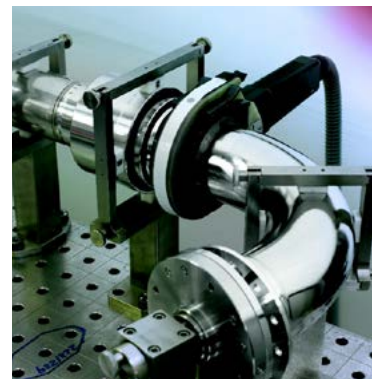
- tubing and ducting for bleed air, fuel, helium, nitrogen, hydrogen and oxygen
- development and manufacturing of fluid storage systems
- development and manufacturing of mechanical components and assemblies
- engineering services (design, simulation, testing)

Aviation standards and certifications

- EN/AS 9100
- POA acc. EASA Part 21G
- various MTU / Boeing certifications



Find us directly at
www.aeronautics.at





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W <http://mam-automation.com>



Muser Machines Automation was founded in 2004 with the aim to provide high end technology for the automation of main processes in machining industries. The family-run company is a global supplier, the main markets being in the USA and Europe with a 100% export rate. All solutions are developed, assembled and tested in-house. First-class quality is of absolute priority to the company. MAM is industry 4.0.

Technologies and competences

Strategic partner providing leading technology for highly automated machine tool industries. With the standard products matrix magazine, HPPS and flexible clamping systems, MAM AUTOMATION offers a wide product range for flexible manufacturing. Thanks to MAM's decades of experience in developing leading technologies, the company is also able to provide individual solutions for customised customer requirements.

Products and services in aviation

- High performance pallet system, connecting up to 20 machines
- Matrix tool magazines, capacity up to 800 tools, centralized tool magazines connecting up to 6 machines
- Data automation, connection with ERP systems and CNC machines with FANUC and Siemens
- Clamping solutions for flexible manufacturing



Find us directly at
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Materialise Austria GmbH

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E josef.kurz@materialise.at
W www.materialise.com/en/industries/aerospace-aeronautics

DEVELOPMENT
PRODUCTION



Materialise's open and flexible platforms enable players in the aerospace field to build innovative 3D printing applications. Headquartered in Belgium, with branches worldwide, the company has brought together the largest group of software developers in the industry and one of the largest 3D printing facilities in the world.

Technologies and competences

Additive manufacturing offers a cost-effective solution with no need to invest in moulds or tooling. It's an ideal manufacturing method for short production series, including spare parts and replacement parts for retro-fitted planes.

Products and services in aviation

- Certified additive manufacturing for plastic as well as metal parts
- Selective laser sintering of aerospace approved polyamide
- Fused deposition modelling of aerospace-approved polyetherimide ULTEM
- Selective laser melting of titanium and aluminium (aerospace grade)

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA



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RESEARCH
DEVELOPMENT
PRODUCTION

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W www.mce-hg.com



MCE, with the Structural Steel Plants line of business is a specialist for the planning and construction of intelligent, turnkey plants for the complex logistics and assembly tasks in the aviation industry. Supported by best practice project management and high quality standards (EN9100:2009 & ISO9100:2008), the company has been able to realise reference projects for all Airbus Aircraft Families.

Technologies and competences

MCE plans and realises plants together with the customer in which customer-specific requirements are resolved and optimised for production with the combination of mechanical, electro-technical and mechatronic components and then integrated into the steel construction. Here, the spectrum ranges from intelligent manual solutions up to fully automated plants.

Products and services in aviation

- jigs, tools and fixtures for structural assembly, esp. moving lines
- jigs, tools and fixtures for equipment assembly, esp. moving lines
- jigs, tools and fixtures for the assembly of rotorcraft
- transport jigs and satellite transport containers

Aviation standards and certifications

- EN/AS 9100



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MD-K Ingenieurbüro für Maschinenbau

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RESEARCH
DEVELOPMENT

MD-K is an engineering consultancy company in the field of mechanical engineering which focuses on product development planning, including measurement technology, explicit FEM-analysis, implicit structural strength calculations including operational stability evaluation, as well as explicit and implicit FEA on static and dynamic structures. The company has many years of expertise, in particular in the field of general aviation and drive train development.

Technologies and competences

Support in the product development process chain:

- Design consulting, static and dynamic evaluation in design engineering
- Support in development planning, support in the definition of test plan and test specifications
- Planning of measurement setups and measurements, support in resource search

Products and services in aviation

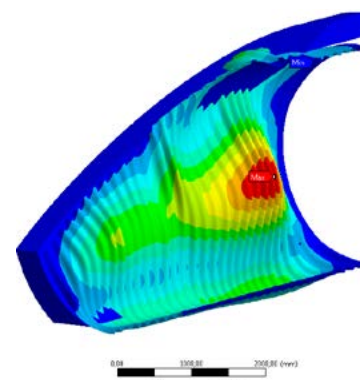
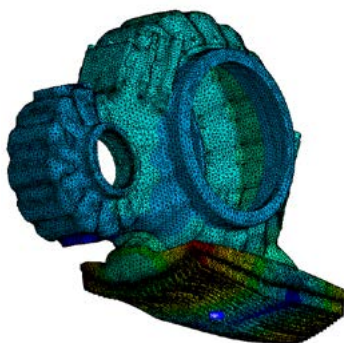
- Design consulting, taking all relevant aspects into account
- Development planning support
- Static and dynamic evaluation in design engineering
- Static and dynamic evaluation for verification management

Aviation standards and certifications

The work processes at MD-K are governed by internal standards to ensure they meet the high demands, particularly in engine design.



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MKE is a developer and contract manufacturer producing complex components and systems for railways, machinery, heavy-duty valves and fittings, motor vehicle construction as well as medical engineering in its production plant in Austria. The company's core competence includes machining, cavity sinking by EDM, wire EDM and automation with a focus on the manufacture and assembly of hybrid components. A separate division is engaged in the manufacture and assembly of complex precision components and modules.

Technologies and competences

CNC turning and CNC milling: individual components and large series with sizes ranging from a diameter of 3 mm to 1800 mm in the case of turned components, and up to 1000 x 1000 x 1000 mm and 600 x 800 x 2000 mm in the case of milled components.

Cavity sinking and wire EDM: MKE is capable of machining a wide variety of work pieces and materials of different quality up to a maximum height of 500 mm with a travel of 750 x 500 mm. MKE also offers surface finishing like polishing, vibratory grinding, anodizing, nickel/chrome plating and more.

Products and services in aviation

- primary parts (metal cutting)

Aviation standards and certifications

- EN ISO 13485 ISO 9001:2008



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MeteoServe Wetterdienst GmbH is a wholly owned subsidiary of Austro Control GmbH, one of Europe's leading air navigation service provider (ANSP).

Technologies and competences

MeteoServe is providing meteorological services (forecasts, forecast verification) as well as consultancy and personnel leasing in the field of air traffic management.

MeteoServe is certified as an air navigation service provider organization in accordance with art. 6 of Regulation (EC) 550/2004 of the European Parliament and of the council and the Commission Regulation (EC) 1035/2011.

Products and services in aviation

- Provider of ANS Meteorological Services
- Consulting

Aviation standards and certifications

- SES (Regulation (EC) No 550/2004 and (EC) No 1035/2011)

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RESEARCH
DEVELOPMENT
PRODUCTION

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Innovation in Motion



Miba was founded in 1927 as a repair and production shop for engine components and has since grown into a leading international group employing more than 5,500 people at more than 22 sites worldwide.

Technologies and competences

Miba is one of the leading strategic partners of the international engine and automotive industry. The product portfolio includes sintered components, engine bearings, friction materials, power electronics components and coatings. Miba products make motor vehicles, trains, ships, aircraft and power plants more efficient, more reliable and more environmentally friendly.

Products and services in aviation

- metal (sputter, electroplating) and polymer coatings
- brake and clutch parts
- sintered parts
- in-house material and part development and test benches
- high performance cold plates



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Product by DAU – A Miba Group Company

„Have a pleasant flight.“

www.miba.com



Innovation in Motion



**Liquid-cooled heat sink
for Boeing 787**

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MICADO SMART ENGINEERING GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION



For more than 10 years, MICADO has been developing and manufacturing tools and fixtures for the whole production process of composite parts. MICADO focuses on innovative turnkey solutions and has earned itself a very high reputation with several Airbus- and Boeing suppliers thanks to the reduction of set-up time and overall process costs.

Technologies and competences

The solutions range from conventional jigs and fixtures to fully-automated systems. In cooperation with universities in Austria and Germany, MICADO is able to implement new approaches in the trimming, assembly and testing of composite components.

Products and services in aviation

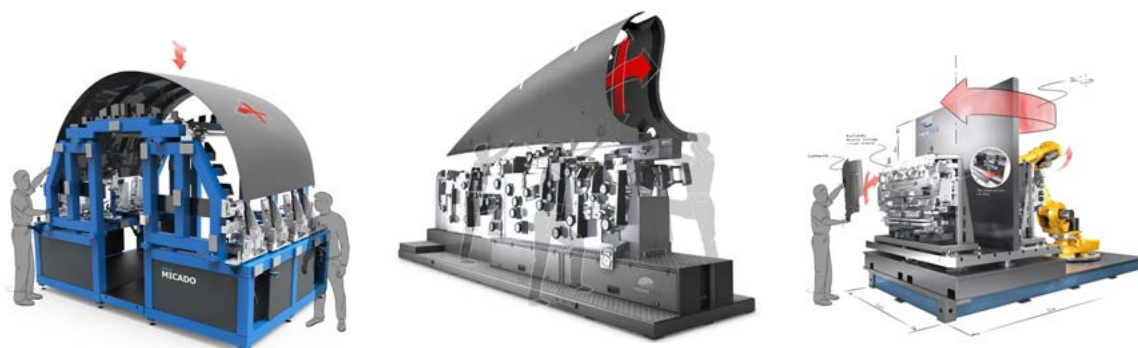
- Vacuum holding fixtures (conventional and universal systems)
- Assembly jigs
- Inspection and test tools
- Automation (robotic and linear motion systems)

Aviation standards and certifications

- EN/AS 9100



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PRODUCTION

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Milltech is located in Upper Austria near, to the Bavarian border. For 18 years Milltech has been delivering high complexity parts to a lot of satisfied customers. Milltech is one of the leading companies in serial, just-in-time production of milled and turned parts at the highest level. Milltech is already certified in accordance with EN/AS 9100 and ISO 9001.

Technologies and competences

The main focus is on mechanical processing and manufacturing of components made of metal and plastic for the aerospace and defence industries, as well as mechanical engineering, automotive and other industrial applications.

Products and services in aviation

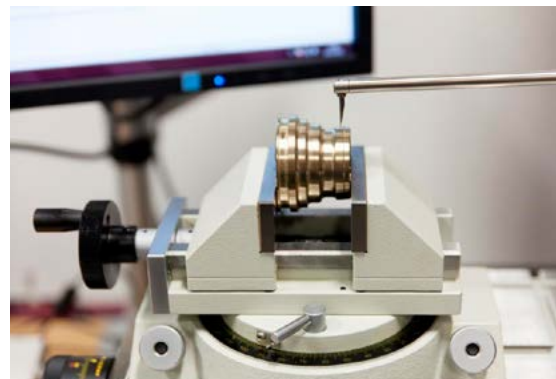
- milled and turned parts for: landing gear, flight control, seats and other interiors

Aviation standards and certifications

- EN/AS 9100



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Montanuniversität Leoben - Chair of Materials Science and Testing of Polymers

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WERKSTOFFKUNDE UND
PRÜFUNG DER KUNSTSTOFFE

RESEARCH
DEVELOPMENT

WPK has two main focuses: Firstly, there is research of structure property performance correlations in polymeric materials and composites on all size scales (molecular-nano-micro-macro) with the goal of material optimisation and development. Secondly, research focuses on modelling and prediction of structural and functional properties with the goal of component development and design optimization.

Technologies and competences

Competences lie in the field of the mechanical behaviour of polymers and composites under complex loading conditions (quasi-static, creep fatigue and impact mechanical loads, temperature, medias). Furthermore, testing methods are developed and a focus lies on the determination of material laws and the transfer on component performance.

Products and services in aviation

- material characterisation and development
- testing concepts (specimen and components)
- fatigue and impact behaviour
- component testing



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Montanuniversität Leoben – Chair of Metal Forming

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The Chair focuses on the interactions between component design, materials behaviour and manufacturing. Physical as well as numerical simulations of metal forming technologies are used and microstructure effects taken into account. One aim is the optimisation of product performance and processing conditions, and mechanical engineers are supported during selection of materials and processing technologies.

Technologies and competences

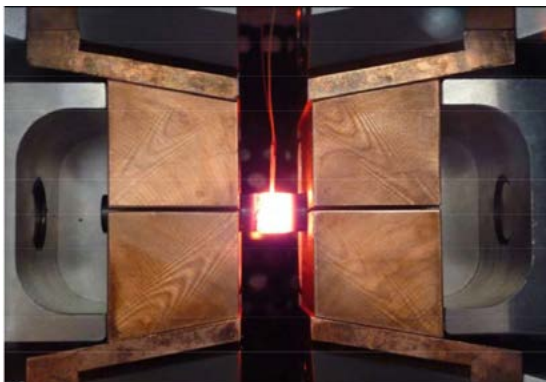
Core competences are the following: numerical simulation of forging (open-die, closed-die, radial forging), extrusion, drawing, flow forming etc.; prediction and measurement of residual stresses; thermo-mechanical materials testing using a Servotest; Gleeble 3800 and rolling unit; heat treatment, measurement of local plastic deformation, wear and friction testing for high temperature.

Products and services in aviation

- characterisation of high temperature materials
- optimisation of processing of light weight materials
- characterisation of the forming behaviour of metals and alloys
- Additive Manufacturing



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Montanuniversität Leoben - Chair of Processing of Composites

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The Chair of Processing of Composites (LVV) is part of the Polymer Engineering and Science Department at Montanuniversität Leoben. LVV's mission is the development of manufacturing technologies for the production of fibre reinforced polymeric materials. Its main focus is on the development, automation and simulation of the individual manufacturing processes.

Products and services in aviation

- out of autoclave processes
- process simulation
- material handling
- automation

Technologies and competences

Processing of unidirectional reinforced composites (placement, winding, and pultrusion), press moulding techniques (form pressing and thermoforming), and various different liquid composite moulding processes are the techniques available at LVV. Most attention is directed toward the area of processing continuously fibre reinforced components and the process-structure-property relationship.

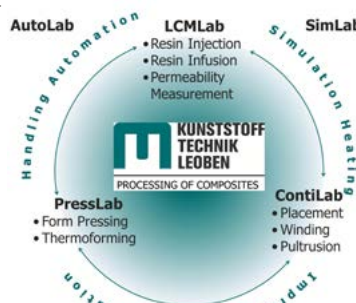
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Robot-based winding



Research topics



Resin transfer moulding





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RESEARCH
DEVELOPMENT

netwiss OG

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The netwiss OG is a typical Austrian small to medium-sized business, focused on traffic and mobility, with a high share of R&D. The main focus of netwiss' projects is on passenger related topics, nevertheless the aim of netwiss is always to look for efficient solutions aiming passenger needs as well as operator needs likewise.

Technologies and competences

R&D and consulting service in: baggage handling, accessibility for passengers with reduced mobility, analyses of customer needs and expectations, customer services, intermodal transport, passenger focused systems, optimisation of systems regarding customer and operator needs as well, developing and execution of market analyses (personal and online).

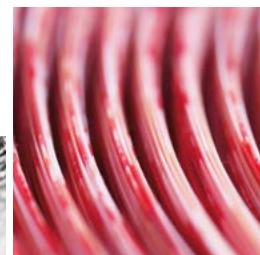
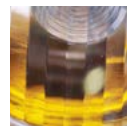
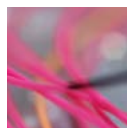
Regarding R&D: project development and co-ordination, transport economic calculations.

Products and services in aviation

- R&D and consulting in: customer services
- R&D and consulting in: baggage handling
- R&D and consulting in: accessibility (people with reduced mobility)
- R&D and consulting in: intermodal transport



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W www.ogi.at

RESEARCH
DEVELOPMENT



The ÖGI is a non-profit research organisation which aims to improve the production process of metallic materials and their properties and places a special focus on casting technologies and their use in light weight applications. This involves the use of high strength steels, titanium and other lightweight alloys and metal composites of the above.

Technologies and competences

The ÖGI has its own pilot scale foundry for Mg, Al and other light weight alloys and can simulate and model production processes. Thermal, physical and mechanical data over extended ranges of temperature can be obtained within EN ISO/IEC 17025 accredited laboratories. Non-destructive testing methods are used to assess product quality and quality improvement and to facilitate damage analysis.

Products and services in aviation

- Mechanical testing of static and dynamic properties from -80° to 900°C
- Computed tomography of components for failure analysis and dimensions
- Measurement of thermo-physical properties
- Assessment and evaluation of adhesive (-hybrid) joints

Aviation standards and certifications

- EN ISO/IEC 17025



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DEVELOPMENT
PRODUCTION

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Pankl Aerospace with operations in the US and Europe is serving the global aerospace market as a Tier One Supplier for transmission components, engine shafts, refuelling tubes and landing gear parts for fixed and rotary wing aircraft. Pankl Aerospace is developing custom made light weight cabin interior and is providing a wide range of Part 21J Engineering Services

Technologies and competences

Pankl Aerospace is one of the largest supplier of flight critical transmission systems for fixed- and rotarywing aircraft. Pankl offers unique manufacturing capabilities including upsetting, swaging, cold sinking, trepanning, bottle boring, honing, grinding, 5-axis milling and turning. Special process capabilities like balancing, non destructive testing and painting are available on site.

Products and services in aviation

- Turbine- and Engine Shafts
- Helicopter Tail- and Main Rotor Shafts
- Radial Drive Shaft Assemblies
- EASA Part 21J Engineering Services

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA
- EASA Part 21 DOA



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RESEARCH
DEVELOPMENT
PRODUCTION



Peak Technology combines groundbreaking innovations in fibre composite lightweight structures with solid craftsmanship. This combination has turned the company into one of the world's most interesting high-tech manufacturing in the development and production of lightweight parts.

Technologies and competences

Working in close cooperation with its customers, Peak Technology creates individual, flexible and highly innovative solutions that progress rapidly from initial prototypes to being ready for production. The greatest driving force is the will to do things better and with even more innovation. The company is therefore continuously optimising its methods and processes and investing in its very well trained employees.

Products and services in aviation

- High-pressure storage tanks up to 700 bar working pressure
- Actuation shafts for aircraft landing flaps
- Tailrotor drive shafts for helicopter industries
- Tailrotor blades for helicopter industries



Aviation standards and certifications

- EASA Part 21 POA



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PRODUCTION

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Pichler & Strobl produces mechanical components and assemblies for the aerospace industry, for medical technologies, the semiconductor and racing industry.

Technologies and competences

The company's competences lie in industrial engineering, milling, turning, drilling, grinding, part assembling in clean-room quality, digital measuring technology, ultrasonic cleaning, logistics, support and surface treatment of titanium, steel, stainless steel, aluminium, ceramic, plastic and various special materials.

Products and services in aviation

- mechanical components for landing gear
- mechanical components for spoilers
- mechanical components for aircraft interiors
- mechanical components for aircraft exteriors

Aviation standards and certifications

- EN/AS 9100

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PIDSO - Propagation Ideas & Solutions GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION



Founded in 2006 by Dr. Christoph Kienmayer, PIDSO - Propagation Ideas & Solutions GmbH is on the leading edge of antenna design and technology. The company has developed a benchmark in ultra-lightweight, carbon-based antennas for the unmanned aerial vehicles market. PIDSO operates according to the highest quality standards and technologies.

Technologies and competences

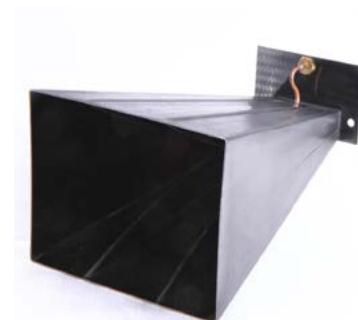
PIDSO's antennas weigh on average 40% less than competitors' - in several cases up to 90% - and substantially reduce space and weight requirements on unmanned aerial vehicles. PIDSO's advanced carbon-fiber design makes its antennas heat resistant, so they can be mounted close to the vehicle's engine wherever necessary.

Products and services in aviation

- Ultra-lightweight carbon antennas
- Shape antennas (tail, fin,...)
- Patch and horn antennas
- Tracking antenna systems
- Flush-mount integration of antennas (bodywork, wings,etc.)
- Cavity antennas
- Low-loss antenna cables



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Polymer Competence Center Leoben GmbH

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The Polymer Competence Center Leoben GmbH (PCCL) is a cooperative research company in the area of polymer engineering and science. With respect to polymer matrix composites, PCCL is focusing on advanced testing and characterisation procedures. R&D projects have been carried out with a variety of companies (FACC, Airbus, Isovolt, Diamond Aircraft, Carbotech, etc.).

Technologies and competences

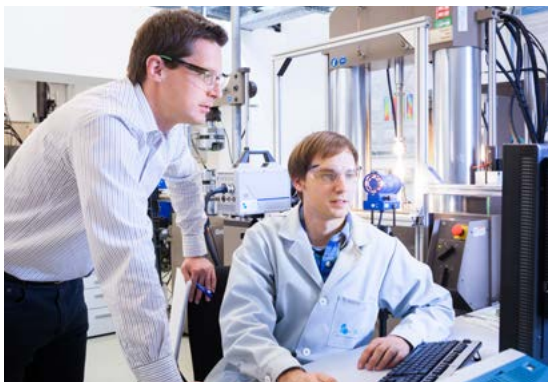
The PCCL laboratories contain the infrastructure necessary for research projects, e.g. basic mechanical and thermo-mechanical test equipment, systems for impact and fatigue measurements and non-destructive testing procedures for the investigation of polymers and composite materials. Process technologies for the manufacture of fibre reinforced thermoplastic and thermoset composites are available.

Products and services in aviation

- Morphology and structural analysis
- Mechanical behavior of polymer matrix composites under quasi-static loading conditions
- Damage Tolerance and fatigue behavior of polymer matrix composites
- Material modelling and structural analysis



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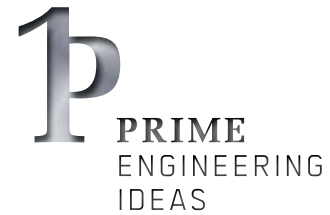


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DEVELOPMENT



The core business of Prime Aerostructures is the focus on design and analysis for the aerospace industry by reflecting the entire development process and product life cycle. Prime Aerostructures aims to become the leader in its industrial sector for the development and application of new and innovative materials, technologies and processes.

Technologies and competences

The company offers engineering services such as: conceptual and detailed design of metallic and FRP aerospace components with respect to the manufacturing process; aircraft system design and linear/nonlinear structural FE analysis, load analysis and creation of load manuals; certification analysis and support according to FAR23/CS23 and FAR25/CS25, as well as definition and support of structural components and sub-components testing.

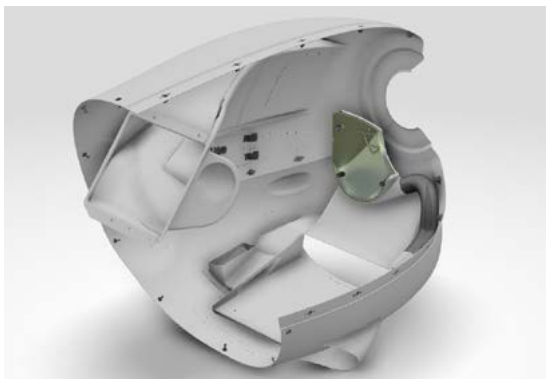
Products and services in aviation

- conceptual design of fibre reinforced aerospace components (2D/3D)
- design of aircraft and aircraft structures using metallic and composite materials (2D/3D)
- structural analysis through the use of linear and non linear finite element analysis tools
- analysis of metallic and composite structures according to FAR/CS requirements

Aviation standards and certifications

- EN/AS 9100
- EN ISO 9001

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Professional Aircraft Engines GmbH

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Professional Aircraft Engines GmbH is a small development and manufacturing company for piston engines, currently focusing mainly on UAV and model applications. PACE covers the entire development process chain in-house, from the design to the calculation and production. The development chain is divided into function and durability development. The company has many years of expertise in general aviation and in the large-scale production of combustion engines.

Technologies and competences

- Consistent implementation of lightweight design
- FEM-based strength and vibration calculation
- Mould construction
- Aluminium sand-casting of particularly thin walls and complex core geometry
- High-precision turning and milling, high-precision circular grinding, fine drilling and lapping

- Component testing technology for function and stress
- Module testing technology for function and stress
- EMC basic measurements

Products and services in aviation

- V12 small displacement engines with high litre capacity
- Constant speed propeller
- Development services in the field of propulsion and UAV
- Miniaturised telemetry for the measurement of moving parts



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Rail Tec Arsenal Fahrzeugversuchsanlagen GmbH

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Rail Tec Arsenal is an internationally active independent research and testing institute for all kinds of transport systems that are exposed to extreme climatic conditions to optimise thermal comfort and to improve the availability and safety of systems. RTA is continuously expanding its expertise in the artificial production of all kinds of precipitation at different ambient temperatures.

Technologies and competences

Large climatic wind tunnel (length 100 m x width 5 m x height 6 m) max. wind speed 300 kph, small climatic wind tunnel (length 33,8 m x width 5 m x height 6 m) max. wind speed 120 kph. In both tunnels any weather conditions can be produced at the push of a button – temperatures from to -45°C up to +60°C, humidity up to 98%, intense solar radiation, snow, rain and ice.

Products and services in aviation

- cold start and icing test on running aircraft engines
- icing and de-icing tests of wing components
- improvement of thermal comfort on-board aircraft
- testing of components under extreme temperatures and solar radiation



Find us directly at
www.aeronautics.at



RECENDT - Research Center for Non-Destructive Testing GmbH

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4040 Linz
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RECENDT researches, develops and implements customised, tailor-made high-tech solutions in the fields of material characterisation and non-destructive materials testing. With non-destructive testing it is possible to raise energy-, resources- and raw-materials-efficiency. RECENDT applies different testing methods e.g. Laser-Ultrasonics, Optical Coherence Tomography and Terahertz-Technology.

Technologies and competences

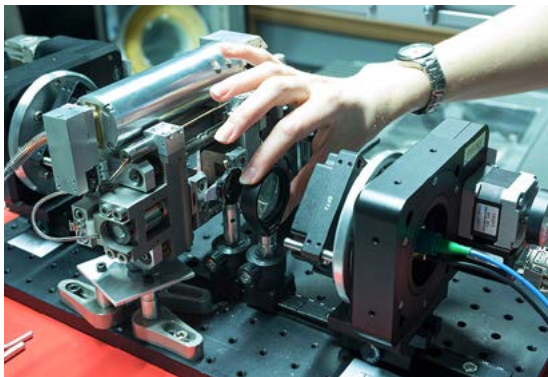
RECENDT covers a wide range of testing methods for the aeronautics industry. E.g. delaminations of CFRP beyond the surface can be identified non-destructively. Also hidden layers in various optically non-transparent materials can be detected and tested. Moreover 3D printings of plastics or metals and dielectrically coated metallic components can be efficiently measured during the process.

Products and services in aviation

- Non-Destructive Testing: technology development for NDT (focus: CFRP)



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Reform-Werke Bauer & CO Gesellschaft m.b.H

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DEVELOPMENT
PRODUCTION



REFORM-Werke, a family owned company, is a recognised specialist in municipal and airport technology. The company has its own R&D department as well as production and assembly side at its headquarters in Wels where all machines and vehicles are developed, manufactured, assembled and tested.

Technologies and competences

REFORM-Werke is supplying unique machines and vehicles for landscape maintenance alongside runways as well as cleaning, snow blowing and de-icing on apron areas. REFORM-Werke works with professional development, production, distribution and service partners in order to generate optimal customer benefit.

Products and services in aviation

- REFORM METRAC - The all-round tool for airport maintenance service.
- REFORM MOUNTY - The powerful tool carrier for transport services.
- REFORM BOKI - The universal tool carrier for ground services



Find us directly at
www.aeronautics.at



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Rheologic is specialised in advanced CFD simulations (Computational Fluid Dynamics). The company has years of experience in advanced CFD simulations including development of solvers, with a focus on OpenFOAM(c). Committed to developing no-nonsense results, Rheologic draws on its range of experience in both scientific and industrial environments to design simulations for complex flows.

Technologies and competences

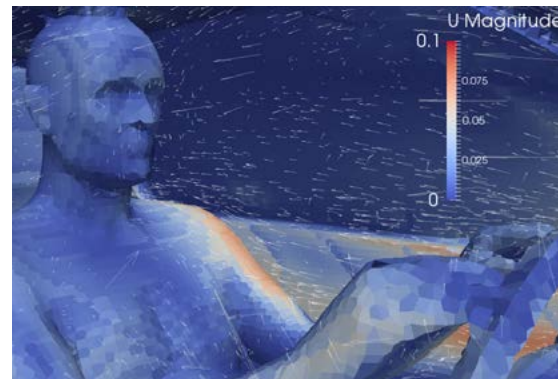
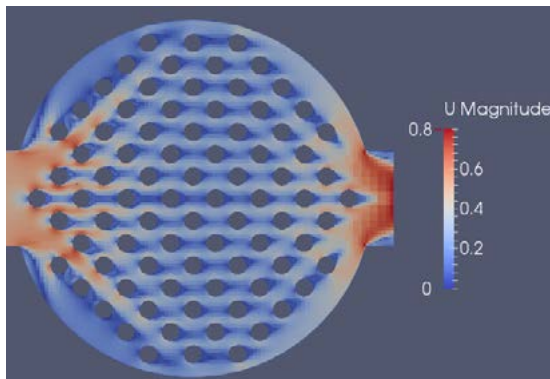
The company simulates condensation, freezing, thawing and evaporation of water (with all thermodynamic effects and heat transfer) for interior (cabin) and exterior applications. It also handles large-scale wind simulations e.g. for wind turbulence around air fields and UAVs in cities with domain sizes of dozens of cubic kilometres, even in complex terrain (e.g. 5 x 5 x 3 km incl. buildings, hills, trees, ...).

Products and services in aviation

- Interior climatisation (incl. moisture from sweating and breathing)
- Moisture: evaporation / condensation / freezing / thawing
- Wind flow around structures like buildings, trees, terrain
- Flow & spatial distribution of liquids, gases, dust, moisture, chemicals...



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RESEARCH
DEVELOPMENT
PRODUCTION



RHP-Technology GmbH is a solution provider for powder technology, customised materials and advanced processing techniques. Various sintering and hot pressing techniques are used. The company has developed a system for additive manufacturing which enables the fabrication of parts sized larger than 0,5 m. The system is also able to realize mulitmaterial concepts or can be used for metal matrix composites.

Products and services in aviation

- Additive manufacturing of large metallic structures (larger than 0,5m)
- Metal matrix composites
- High temperature ceramics
- R&D in materials and process development

Technologies and competences

The company operates different hot pressing and sintering devices, including facilities for powder injection moulding and additive manufacturing. The material portfolio ranges from light weight materials to heavy metals; functional materials with self lubricating properties or wear resistant materials, as well as high thermal conductive materials or low expansion material.

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RESEARCH
DEVELOPMENT
PRODUCTION

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RIEGL Laser Measurement Systems is an international leader in research, development and production of laser scanners and laser scanning systems for surveying. Sales, training, support and services are provided by RIEGL's Austrian headquarters in Horn and offices in Vienna, Salzburg, and Styria, international main offices in the USA, Japan, and in China, and a worldwide network of distribution partners.

Products and services in aviation

- RIEGL VQ-1560i Dual Channel Airborne Mapping System
- RIEGL VP-1 Helicopter Pod for airborne laser scanning
- RiCOPTER fully integrated turnkey solution for UAS surveying missions
- UAV-based LiDAR Sensors for survey-grade LiDAR performance from sUAS

Technologies and competences

Based on innovative Waveform-LiDAR technology, RIEGL's hard- and software products are used worldwide in terrestrial, industrial, mobile, bathymetric, airborne and UAS-based applications. The resulting geospatial point cloud data excels in density, accuracy, and high precision. RIEGL's high performance UAV RiCOPTER is a fully integrated carrying platform for professional use in challenging environments.

Find us directly at
www.aeronautics.at



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RISC Software was founded in 1992 and is owned by the Johannes Kepler University Linz (80%) and Upper Austrian Research GmbH (20%). It is an internationally operating IT company providing software development services. The company focuses on the development of complex and highly reliable custom software solutions, mainly in the areas of computational mathematics and computer science.

Technologies and competences

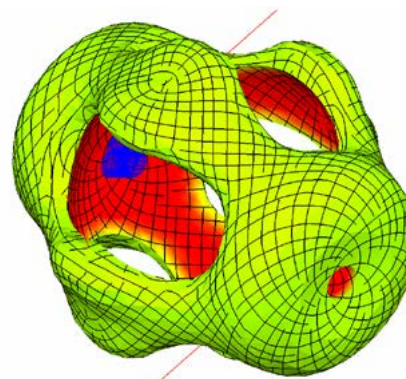
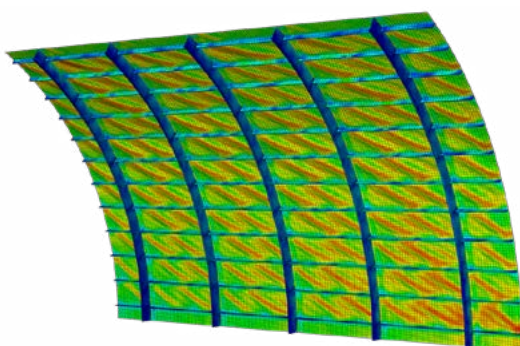
RISC Software combines engineering excellence from mathematics, computer science, and software engineering. This allows supporting projects that range from initial concept ideas to the development of mature systems, through deep domain knowledge in the areas of numerical mathematics, computational geometry, software design, and software development processes.

Products and services in aviation

- Design and optimisation tools for lightweight structures.
- Development and software reengineering of FEM / CAE systems.
- Development of software applications for justification processes.
- Computer geometry and mathematical optimisation.



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RESEARCH
DEVELOPMENT
PRODUCTION

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RO-RA is a reliable systems supplier and innovation leader who offers the development, qualification and production of applications for Interiors, Structures and Engine Components. The company focuses on future-oriented products and solutions by processing metals of almost all grades. State-of-the-art turning and milling centers are being used for the production of metal parts in-house.

Technologies and competences

The range of services of RO-RA Aviation Systems GmbH involve

Product Development:

- Conceptional Design
- Research & Development
- Application Engineering & Modularity Management
- Acoustics & Vibration Computation
- 3D & 2D Design (CATIA V5)
- Ultimate Compression & Tension

Load Analysis & Testing:

- Kinematic Analysis
- Fatigue Cycling & Windmilling

Analysis:

- Qualification & Verification

Products and services in aviation

- CONNECTORS: Connectors, Flanges, VI-Breaker and Air Ducts
- STRUCTURAL STRUTS: Metallic Rods, Engine Mounting Rods, Swaged Rods,..
- AEROSTRUTS: Tie Rods, Drag Links, Rotary Rods, Rigid Sturts
- MACHINED METAL ASSEMBLIES: Different kind of Aluminum, Titanium, Steel

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA



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DEVELOPMENT
PRODUCTION



The Rohde & Schwarz electronics group offers innovative solutions in the following business fields: test and measurement, broadcast and media, cybersecurity, secure communications, radiomonitoring and radiolocation. Founded more than 80 years ago, this independent company has an extensive sales and service network and is present in more than 70 countries. Company headquarters: Munich, Germany.

Technologies and competences

T&M equipment for wireless communications, general purpose electronics and microwave; Broadcast and media technology (transmitter, T&M equipment, post production); Cybersecurity for businesses, government authorities and critical infrastructures; Secure communications for armed forces, government authorities and industry; Frequency management and radiolocation for homeland and external security.

Products and services in aviation

- Radios for ground & airborne communication, HF,VHF/UHF, VOIP + install.
- Voice communication system VCS-4G
- T&M equip. f. radios, ILS, VOR, DME. Radar & spectrumanal., comtester, ...
- Air traffic control direction finder

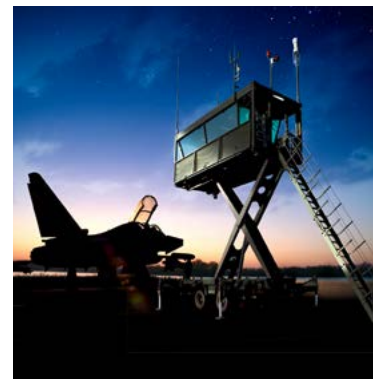
Aviation standards and certifications

- EN/AS 9100
- BWB-0089-R01/11/01



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Rohde & Schwarz Transceiver





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RESEARCH
DEVELOPMENT
PRODUCTION

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The Rosenbauer Group is one of the world's leading manufacturers of firefighting vehicles. Rosenbauer is a full-liner that supplies the firefighting sector with a wide range of products and services. Rosenbauer products are in service in nearly every country in the world. The company produces its extensive series of firefighting vehicles and aerials on three continents in accordance with both European and US standards.

Products and services in aviation

- ARFF vehicles
- Fire and safety equipment
- Firefighting technology

Aviation standards and certifications

- ICAO Doc. 9137-AN/898, NFPA 414

Technologies and competences

Rosenbauer serves airport fire services around the world with innovative and professionally designed quality PANTHER ARFF vehicles. Chassis, superstructure and firefighting systems are fully integrated, designed and manufactured within the Rosenbauer Group.



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RESEARCH
DEVELOPMENT
PRODUCTION

RÜBIG

DRIVING SUCCESS

With more than 20 years of experience, RÜBIG is a renowned specialist in the heat treatment of steel and aluminium materials. The company offers ultra-customised solutions from an extensive range of services, from expert material consulting by the in-house materials laboratory to a large spectrum of processes for any type of heat treatment challenge.

Technologies and competences

Heat treatment development and upscaling to serial production by the R&D department for quench and tempering technologies in vacuum and inert gas chambers, including low pressure carburizing. Gas- and plasma nitriding processes and carburizing in automated heat treatment line. The company's own material laboratory provides extensive investigation possibilities.

Products and services in aviation

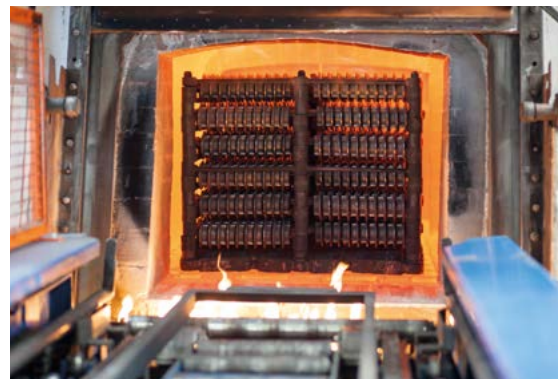
- Nitriding of steel parts (gas nitriding and plasma nitriding)
- Quench and temper (vacuum or inert gas chamber)
- Low pressure carburizing (vacuum chamber)
- Process development and laboratory services

Aviation standards and certifications

- EN/AS 9100



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DEVELOPMENT
PRODUCTION

ScaleWings AeroTec GmbH

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ScaleWings is a SME focusing on the development and production of recreational aircrafts in carbon fibre composite materials. ScaleWings has developed the sw51 Mustang, the only true to scale (70%) replica of the legendary North American P-51 Mustang as recreational aircraft with the original reproduction of all surfaces: all rivets, screw heads, metal sheet joints, maintenance covers, textile surfaces, etc.

Products and services in aviation

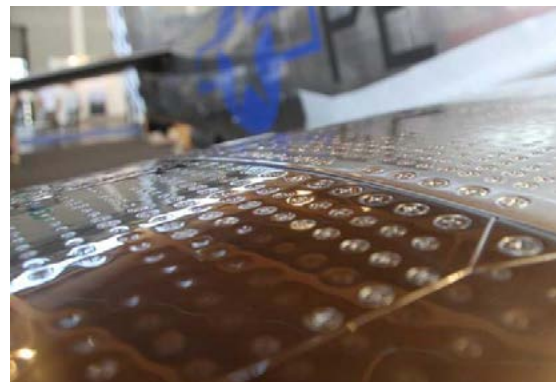
- sw51 Mustang quick-build kit (scale replica of the legendary P-51 Mustang in CRFP)
- sw51 Mustang S-LSA
- Accessories: - Aerobatic fuel tank - Aerobatic oil tank

Technologies and competences

ScaleWings has realised unique patent pending technical solutions to enable the realisation of the sw51 Mustang: - manufacturing of out of the mould paintable ultra-thin honeycomb composite skins (no telegraphing) - considerable weight reduction for composite structures.



Find us directly at
www.aeronautics.at



SCE SystemEngineering GmbH

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RESEARCH
DEVELOPMENT
PRODUCTION



SCE SystemEngineering GmbH was established in 2004 and initially began with custom-made flight simulators with motion platform. In the meantime the company also offers its customers user-specific control systems, not only within the aviation industry.

Technologies and competences

In cooperation with their partners, SCE are able to fulfil their customers' demands in flight simulation (as well as simulation in 3D-Space) and control systems. Latest state-of-the-art bus systems provide decentralised IO for aviation, as well as industrial automation used in simulators and energy systems.

Products and services in aviation

- Upgrade and custom-made flight simulator with motion platform
- Transportable procedure trainer SCE Cirrus 05 with motion platform
- Customised solutions for warbirds e.g. coolant control system
- Control systems in aviation

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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

Schiebel

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SCHIEBEL



Founded in 1951, the Vienna-based Schiebel Group focuses on the development, testing and production of state-of-the-art mine detection equipment and the revolutionary CAMCOPTER® S-100 Unmanned Air System (UAS). Schiebel has built an international reputation for producing quality defense and humanitarian products, which are backed by exceptional after-sales service and support.

Products and services in aviation

- FADEC engine and engine control
- Aircraft composite parts
- Unmanned helicopter with a MTOW of 200 kg
- Aircraft control for unmanned aircraft

Technologies and competences

The unmanned helicopter CAMCOPTER® S-100 needs no prepared area or supporting launch or recovery equipment. It operates in day and night, under adverse weather conditions, with a beyond line-of-sight capability out to 200 km, both on land and at sea. The S-100 navigates via pre-programmed GPS waypoints or is operated with a pilot control unit. The outstanding performance data is the result of a unique design and the high-tech materials used, such as carbon fiber for the fuselage.



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SBOT is a highly specialised manufacturer of high-alloyed, non-magnetic, corrosion resistant, stainless steel collars and has more than 30 years of experience in machining parts made of high-alloyed steels and super alloys. SBOT is a contract manufacturer for long and complex parts. Since 2016 the company is also EN/AS 9100 certified. The production facilities measure 430.000 sq ft or 40,000 m² with more than 120 CNC-machines and about 300 employees.

Technologies and competences

Single source, non-magnetic drill collars, with the company's own non-magnetic material grades. High precision components are machined according to customer specifications and ready for final assembly with electronics and casings upon delivery. Product length up to 32 ft (10 m), diameters between 0.12 inch (3 mm) (inside) and up to 17.7 inch (450 mm) (outside). Special technologies such as gundrilling, laser welding and cladding, millturn production.

Products and services in aviation

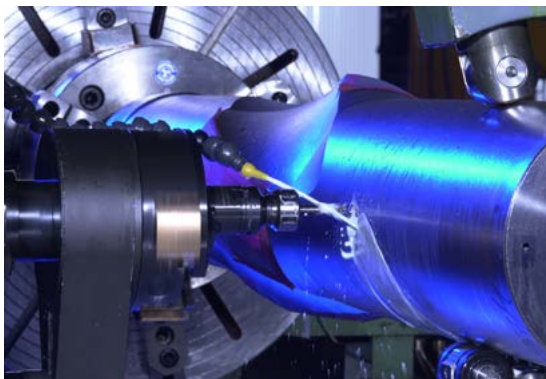
- LWD: to acquire high-quality data for geosteering and formation evaluation
- MWD: to determine the well path and its position in 3-dimensional space
- NMDC: is used especially if you need exact measurements of the drilling direction
- Long small and other complex components produced according to customer specifications

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

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RESEARCH
DEVELOPMENT
PRODUCTION

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Schunk Hoffmann Carbon Technology, a member of the Schunk Group, has over 900 employees located at sites in Austria, Hungary, and Japan. The company has well over 70 years' worth of experience in the design and manufacture of lightweight graphite materials. Schunk Hoffmann specialises in the development and manufacture of carbon-based components mainly for the automotive and railway industries.

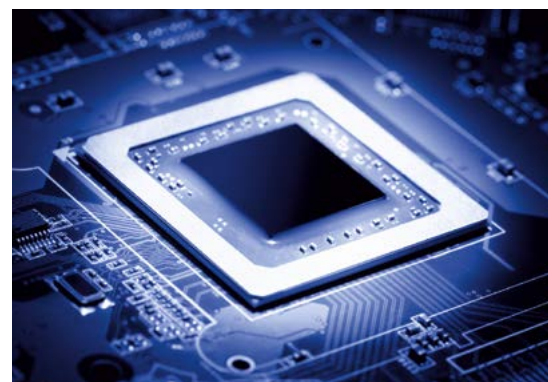
Products and services in aviation

- Lightweight metal matrix composites (thermal management materials)
- Carbon and graphite-based components
- Research on composite materials (latent heat storage, etc.)

Technologies and competences

Schunk Hoffmann is a reliable partner with core competencies in the fields of materials R&D as well as product, process and application engineering. Due to the high degree of automation on production lines volumes in excess of millions are readily realised for carbon brushes, commutators, etc. A range of specialised equipment allows for the production of bespoke solutions in smaller volumes.

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RESEARCH
DEVELOPMENT
PRODUCTION



SCOTTY is specialised in providing airborne intelligence, surveillance and reconnaissance services through the use of unique transmission systems. The company provides a communications tool for its customers, including border patrols, search and rescue teams and the military, to cut costs and increase the efficiency of their airborne capabilities.

Technologies and competences

SCOTTY is a manufacturer and an integrator of beyond line-of-sight video surveillance and communication equipment. Its products mean that customers can have the best video surveillance and communication, as well as full data exchange from remote and difficult environments - from the ground, moving vehicles, at sea, or even from flying aircraft.

Products and services in aviation

- SCOTTY SatCom Computer System (SCP) and other LRU's
- SCOTTY Airborne Solutions (SCP 200-800)
- SCOTTY / INSYS MLX 100 Airborne Gateway
- SCOTTY / INSYS APX 330 WIFI Access Point

Aviation standards and certifications

- EN/AS 9100



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PRODUCTION

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Secar Technologie GmbH is highly specialised in the development and manufacturing of fibre-reinforced composite materials and components for the aerospace industry. Based on its carbon fibre composite technologies, the company produces complex pultrusion profiles, as well as 3-dimensional precision parts. Semi-finished products as well as completely assembled modules are manufactured.

Technologies and competences

The core competence is pultrusion technology, which enables lightweight parts with high mechanical strength to be produced cost-effectively. In addition, SECAR has invented new technologies like PulWinding and PulBraiding to increase mechanical strength. The production portfolio is supplemented by high precision compression moulding technology and the company's own CNC-centre for machining metal and composite parts.

Products and services in aviation

- high temperature carbon fibre parts
- Pulwinding carbon fibre torsion bars
- carbon fibre profiles
- 3-dimensional compression moulding parts

Aviation standards and certifications

- EN/AS 9100



Find us directly at
www.aeronautics.at



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DEVELOPMENT
PRODUCTION

Sensorwell

Since 2005 Sensorwell has been working as a competent and reliable partner in the field of sensor technology, automation and safety engineering. Our Team has many years of experience in the industry.

Sensorwell is an authorized distributor of Honeywell and many other well-known automation companies in Austria. We are serving our customers with high-quality products and technical development support from our sales engineers.

Products and services in aviation

We offer a wide range of sensors and switches for the following aviation applications:

- flight controls surface
- ordnance and cargo
- environmental control

- aero structures
- doors
- airframe and engine testing
- engine and APU system
- flight deck
- landing gear, wheels and brakes
- weapons system
- primary flight controls
- secondary flight controls (high-lift system)
- pilot controls
- rotor-testing

Aviation standards and certifications

ISO 9000; 2000; AS 9100; QS 9000;
EASA21 subpart G; EASA 145; ISO 14000;
FAA-certified Repair Station;
JAA-certified Repair Station

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enter the world of sensors





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DEVELOPMENT

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Siemens Convergence Creators GmbH provides its customers with turnkey solutions in the fields of communication networks, service and customer management, public safety and security, multimedia infotainment, as well as aerospace technology. The avionics products and solutions are used in business jets, e.g. Dassault Falcon 7x, as well as in commercial aircrafts, such as Airbus A320/321, A350, A380, Boeing 737, Boeing 747 and Boeing 787.

Technologies and competences

Siemens Convergence Creators' core competencies in the avionics market include R&D of electronic HW and SW for cabin communication, multi-media & security products. The cutting-edge technologies enable passengers to use their own mobile phones for voice and data communication during the flight. The company increases security by means of reliable cabin video surveillance and data network components.

Products and services in aviation

- Aircraft cabin electronics for business jets and commercial aircrafts
- Network control units for on-board mobile GSM telephony service
- Aircraft cabin camera and data network systems

Aviation standards and certifications

- DO-254 (HW), DO-178 B (SW), DO-160, ABD0100



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W www.sistro.com



DEVELOPMENT
PRODUCTION

We are a EN9100 certified, expanding company and are specialised in the production of system assemblies and precision parts. We accompany you from the development to the series line and up to the constant optimisation of your products and bring our strengths such as quality, on-time delivery, open communication and our absolute focus on customer orientation to the aerospace industry.

Technologies and competences

- 5-axis-milling
- 3-axis-milling
- turning
- grinding
- EDM
- manual finishing/polishing/lapping
- supplier network for sheet metal, NDT and surface treatments

Products and services in aviation

- Build-to-print rotary and piston engine components incl surface
- Build-to-print metallic interior components incl decorative finish
- aircraft structural parts incl surface treatments & NDT

Aviation standards and certifications

- EN/AS 9100
- EN 9001, EN 13485



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Aviation Technologies

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Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

DEVELOPMENT

SMP Satcom Marketing & Project Management GmbH

Plüddemanngasse 67a
8010 Graz
Austria | Österreich

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E office@smp-aviation.com
W http://smp-aviation.com



smp aviation specialises in the provision of security and security related solutions to organisations such as the police, civil protection, coastguard, business executives and many other agencies and has delivered services both to governmental organisations and non-governmental clients for more than two decades.

Products and services in aviation

- Thuraya Aero
- Satellite Communication Services

Technologies and competences

smp aviation provides satellite communications equipment and services under the name of Thuraya Aero that enable in-flight connectivity such as internet access, voice calls, text messaging, video/audio conferencing or applications such as ISR, search and rescue, disaster relief, fire fighting, fishery monitoring, tele-medicine, special ops, border patrol, illegal trafficking, media, office in the sky and much more.

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For applications such as SAR, ISR, VIP and many more



system7 metal technology GmbH

Gewerbegebiet Süd 10
4664 Oberweis
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Pawel Gruszkiewicz
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W www.s7-mt.com



DEVELOPMENT
PRODUCTION

System7 Metal Technology looks back on 40 years of experience in the metal sheet processing business. This means a level of expertise which is otherwise rarely seen. The know-how of the highly qualified staff is complemented by the latest generation of machinery. Everything from a single source. One of the great strengths of system7 metal technology is the high level of vertical integration.

Technologies and competences

The company offers one of the largest, fully automated high-bay warehouses in Europe, filled with up to 2500 tons of metal sheets; the fastest and most powerful 8kw fibre laser system in Austria; two machining centres with 3 and 5 axes and a modern 4-zone powder coating centre. Processing of metals of all grades, certification by EASA according to Part 21, releases of various aerospace manufacturers and OEMs.

Products and services in aviation

- metal parts, brackets, metallic connection parts
- assembly parts, plates, levers

Aviation standards and certifications

- EASA Part 21 POA
- ISO 9001, 14001



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- RESEARCH
- DEVELOPMENT
- PRODUCTION

TAGnology RFID GmbH

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W www.tagnology.com



As a complete solution provider for Auto-ID applications, TAGnology develops professional solutions for independent branches in the RFID and NFC sectors. TAGnology is expert in hardware and software development and offers also a system level integration and distribution. Customers can rely on the high-quality components offered through the company's distribution system. More knowledge with less effort.

Products and services in aviation

- ZOMOFI Cargo Tracker

Aviation standards and certifications

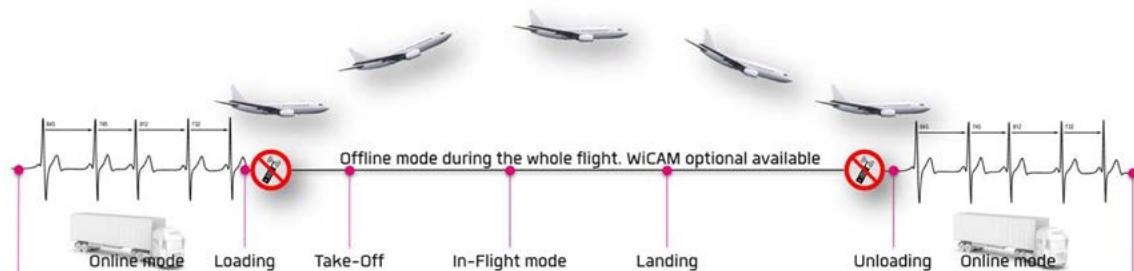
- Innovation Prize IT 2013/ 2016

Technologies and competences

Next Generation Cargo Solution's radio signals should be switched off in the airplane. TAGnology's patented airfreight switch scans these frequencies to determine whether the localised devices are inside or outside the airplane. If the airfreight tracker is inside the plane, the tracker switches automatically into flight mode. Outside the airplane all functions switch on automatically.



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TailSiT GmbH - Tailored Simulation Tools

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Founded by highly experienced engineers, TailSiT offers specialised software tools for computer simulation in various fields of engineering. The team has a strong background in software development, computational physics and numerical methods. In collaboration with several European universities, TailSiT assists its international customers in simulation-based design and virtual prototyping.

Technologies and competences

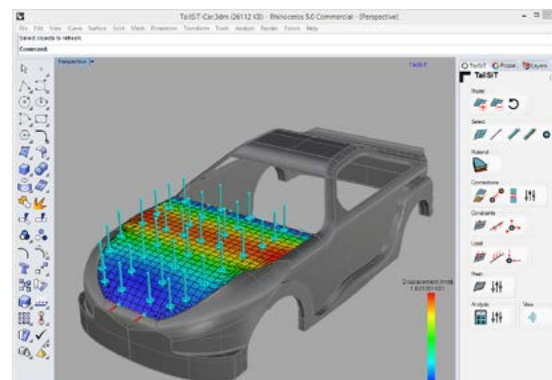
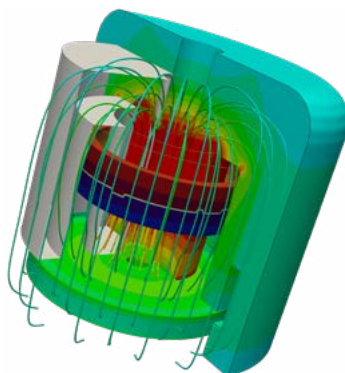
TailSiT produces custom-made simulation software for structural mechanics, electromagnetics, acoustics and other fields of physics. The software tools are tailored to the clients' needs and adapted to their workflow. Short production time, performance and flexible licence conditions are the main assets of the company's products that are based on state-of-the-art technologies.

Products and services in aviation

- Structural analysis and acoustics
- Electromagnetics
- Development and implementation of simulation tools (FEM & BEM)



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Aviation Technologies

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- RESEARCH
- DEVELOPMENT
- PRODUCTION

TEST-FUCHS GmbH

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TEST-FUCHS is one of the leading companies worldwide in the field of test equipment for the aerospace industry and the development of ground support equipment and aircraft ground equipment for civil and military aviation. Additional key activities of this innovative family company are the production and maintenance of aerospace components and the production of cryogenic valves.

Technologies and competences

TEST-FUCHS is distinguished by its high vertical integration and the associated, very short throughput times for the realization of complete test bench projects. All competence, from the mechanical and electrical construction, parts manufacturing, electronics and software development, up to assembly and start-up are available in the company.

Products and services in aviation

- Test Equipment for Aircraft Production
- Test Stands for OEM and MRO
- Maintenance and Ground Support Equipment
- Aircraft component production and maintenance

Aviation standards and certifications

- EN/AS 9100
- EASA Part 21 POA
- EASA Part 145
- FAA/FAR-145 (under subcontractor Austrian Airlines)



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RESEARCH
DEVELOPMENT

TIZ Landl - Grieskirchen GmbH

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W www.tiz-grieskirchen.at



The Technology and Innovation Center TIZ Grieskirchen operates as one of the most modern and effective Testing Center within Europe. The aim of this service is to help companies to develop innovative products and also to support in solving specific construction problems to contribute to their success. Furthermore tests are performed according to customer standards and authority regulations.

Technologies and competences

Simulation of transport and vehicle activities. Function testing of vehicles under vibration loads. Strength and durability tests. Service life tests. Performance evaluation. Squeak and rattle evaluation. Endurance testing of components. Static load tests. Testing the reliability, life expectancy and occupational safety of components. Sustained Engine Imbalance (Windmilling) Test.

Products and services in aviation

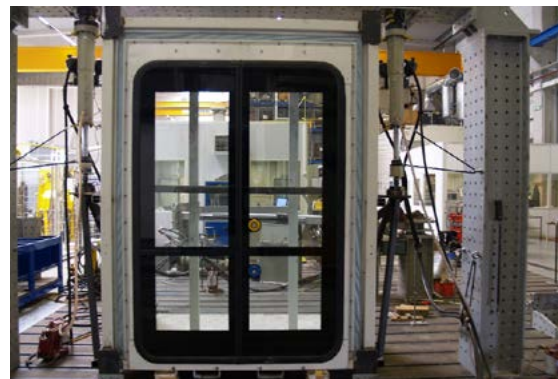
- Multiaxis Simulation Table (MAST)
- Hydropuls Testing for Components
- Climate Chamber and Shaker with Headexpander and sliding table
- Mobile Measurement Equipment

Aviation standards and certifications

- EN/AS 9100



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Transfercenter für Kunststofftechnik GmbH

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Transfercenter für Kunststofftechnik GmbH (TCKT) is an application oriented research and development institute in the field of polymers.

Technologies and competences

Development and optimisation of novel processes and materials in composites and lightweight constructions. Material- und compound development with novel fillers and reinforcements, additives as well as natural fibers. Process optimisation in injection molding and extrusion.

Products and services in aviation

- process development in RTM, VARI and Autoclav technology
- Measurement von permeability.
- Composite testing

Aviation standards and certifications

- EN ISO 17025



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TRIPAN - Leichtbauteile Wimmer GmbH

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TRIPAN
Leichtbauteile

TRIPAN Leichtbauteile produces prefabricated parts in an aluminium honeycomb sandwich panel construction for vehicle superstructures, elevator construction, machine construction, architecture applications, cladding for indoors and outdoors, as well as partitions for passenger cabins in aircraft.

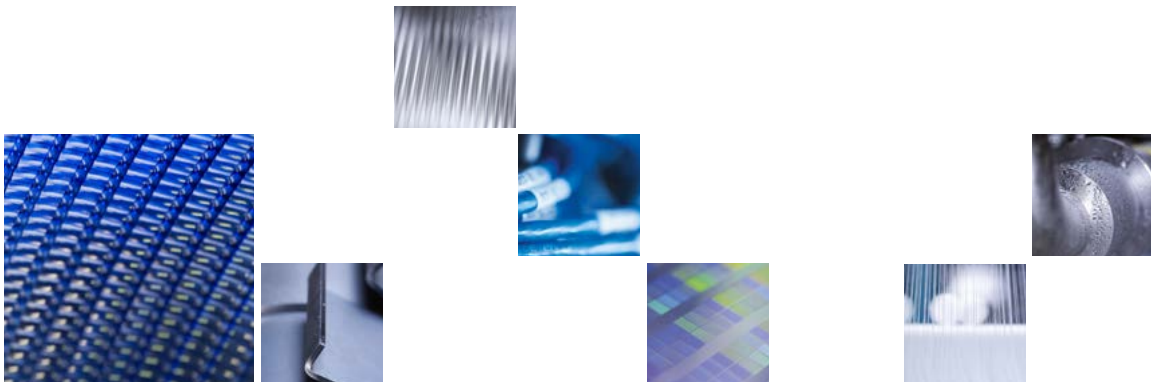
Products and services in aviation

- partitions
- stowage boxes
- curtain Header
- dog houses
- galleys

Technologies and competences

The company is specialised in the manufacturing of light prefabricated parts in a sandwich panel construction. The covering layers are made of aluminium, GFRP, CFRP, steel, stainless steel or plastic, while the cores are made of aluminium honeycomb, rigid foam and much more. Panel presses up to 4 x 1.2 m are used for the processing as well as vacuum presses up to 15 x 3.5 m and CNC milling machines (6 x 2 m). PU, epoxy, prepregs or thermoplastic adhesives are used for gluing.

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RESEARCH
DEVELOPMENT
PRODUCTION

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TTTech is the leading supplier of dependable networking solutions based on time-triggered technology and modular safety platforms. The solutions and best-in-class products improve the safety and reliability of networked computer systems and are used in various industries such as automotive, aerospace, off-highway, energy production, railway and industrial.

Technologies and competences

TTTech designs deterministic networks and embedded platforms for time-, mission- and safety-critical applications. The core competences lie in the design of distributed fault-tolerant real-time platforms, tools, software, hardware components and systems. The company works on large aerospace programmes and critical by-wire controls for Boeing 787, NASA Orion, Airbus A380, Bombardier CSeries, Embraer Legacy etc.

Products and services in aviation

- TTP-based by-wire control solutions (up to 5 MBit/s; 20MBit/s)
- TTEthernet solutions (VPX/Lab/ARINC600/PMX/XMC format)
- AFDX solutions (VPX/Lab/ARINC600/PMC/XMC format) for IMA
- network test equipment and design tools for integrated systems

Aviation standards and certifications

- EN/AS 9100
- DO 254, DO 178-B Level A, SAE ARP 4754

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© NASA, NASA Orion relying on TTEthernet-based avionics network



TTTech-based communication platform for Boeing 787



TU Graz | University of Technology - Institute of Communication Networks and Satellite Communications

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The Institute is active in design, development and verification of advanced high-speed satellite communication and line-of-sight links, optimised for the Internet protocol suite. The applications are focused on aerial platforms for disaster management and remote sensing from aircraft. A special radio channel emulator for ground testing is available at the Institute.

Technologies and competences

Competences of the Institute are in the fields of satellite communications, broadband terrestrial radio communications, delay and disruption-tolerant communications protocols, advanced modulation and error-correction coding, as well as software-defined radio solutions.

Products and services in aviation

- advanced broadband satellite links for aircraft
- communications protocols for aeronautical links
- radio ground test equipment
- ADS-B signal monitoring systems from satellites
- clean Room for integration and testing of aerospace-qualified hardware;
- vibration test facility (up to 60 g)

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TU Graz | University of Technology - Institute for Thermal Turbomachinery and Machine Dynamics

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W www.ttm.tugraz.at



The Institute works on turbo machinery and on machine dynamics. The most intensive research work in the past years has been devoted to transonic turbines, intermediate turbine ducts and combustion chambers for aero engines. The Institute owns a large experimental facility including a 3 MW compressor station, allowing a continuous operation. Various laser techniques and optical systems are used.

Technologies and competences

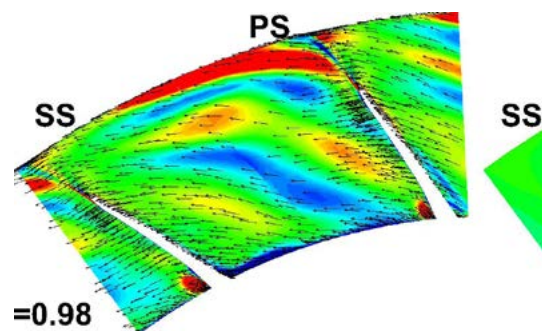
Competences at the Institute are: aero engines - overall system, turbine aerodynamics (numerical and experimental), new aero engine concepts, aero engine acoustics, interaction between high pressure turbine and low pressure turbine (Mid Turbine Frame); noise propagation within the engine, analytical and experimental investigation of combustion chambers; emission analysis.

Products and services in aviation

- transonic turbines
- intermediate turbine ducts
- noise aero-acoustic
- combustion stability



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TU Wien | Institute for Energy Systems and Thermodynamics

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TECHNISCHE
UNIVERSITÄT
WIEN

RESEARCH
DEVELOPMENT

The Institute for Energy Systems and Thermodynamics is within the Faculty of Mechanical Engineering and Industrial Engineering as the centre of competence for the mechanical and process engineering aspects of energy technology. The Department of Fluid-Flow Machinery, as one of two departments, is responsible for research and education in thermal turbo-machinery.

Technologies and competences

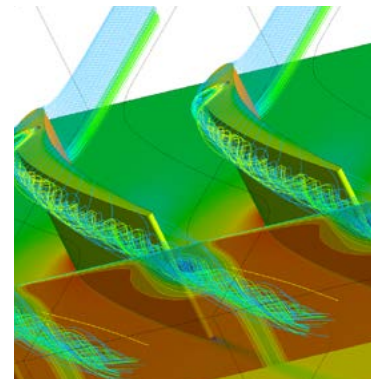
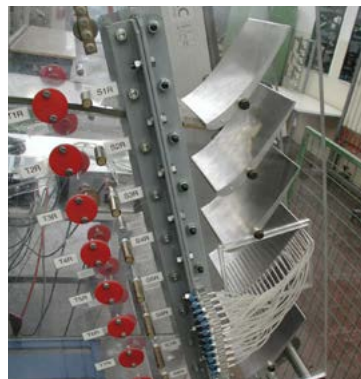
The Department of Fluid-Flow Machinery has competences in numerical and experimental research for turbo-machinery components. Main areas of activity are axial turbine secondary and tip-leakage flow, labyrinth seal flow and advanced turbo-machinery seals.

Products and services in aviation

- axial turbine secondary and tip-leakage flow
- labyrinth seal flow
- advanced turbo-machinery seals
- diffuser flow
- Linear cascade wind tunnel
- free-jet wind tunnel
- micro gas turbine test stand
- five-hole pressure probes
- hot-wire anemometry
- blade vibration test stand



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TU Wien | Institute for Engineering Design and Logistics Engineering

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The Machine Design and Rehabilitation Engineering Division teaches and carries out scientific work on the basics of mechanical engineering. One main field is power transmissions with a special focus on transmissions for aviation. The institute laboratory enables experimental investigations of transmissions like measurements of wear, acoustical characteristics and power tests. The Institute represents Austria in the International Forum for Aviation Research (www.ifar.aero).

Technologies and competences

The Institute is engaged in both design and development, including theoretical calculations of drive trains for aviation, especially transmissions and drive shafts. It is a member of the aviation working group at the Vienna University of Technology and a member of the AAI. The test field and the laboratory enable test and qualification runs in accordance with the EASA certification specifications.

Products and services in aviation

- design, development and optimisation of transmissions for aviation
- transmissions and drive trains for future VTOL aircraft concepts
- tribology and lubricants for transmissions in aviation
- optimisation of rescue helicopters
- Laboratory for transmissions for aviation acc.to CS-EASA
- soundproof test cells and full sound measurement equipment
- test stand for helicopter drive shafts, 300kW-universal test stand for transmissions

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TU Wien | Institute of Sensor and Actuator Systems

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E schmid@isas.tuwien.ac.at
W www.isas.tuwien.ac.at



The Institute (ISAS) is grouped into three research departments: Micro- and Nanosensors, Applied Electronic Materials and Microsystems Technology. As Prof. Schmid, head of ISAS, has been with the research labs of EADS (European Aeronautic Defence and Space Company, now the Airbus Group) for several years, there is a strong focus on micro/nanomachined devices and systems for airborne applications.

Technologies and Competences

The Institute's work focuses on micro-/nanomachined devices and systems including packaging aspects. For hardware realisation, clean rooms with equipment for thin and thick film technology are available. Furthermore, the institute has long-term expertise in the design and characterisation of MEMS/NEMS sensors (e.g. pressure, flow, acceleration, gyroscopes. etc.) and actuators (e.g. piezoelectric, magnetic, etc.).

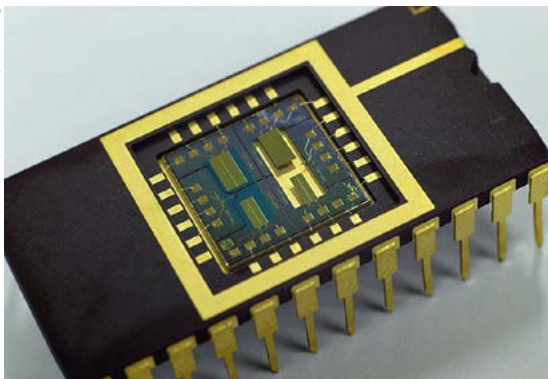
Products and services in aviation:

- energy harvesting devices for low energy sensor networks (e.g. SHM, integrated seat applications)
- robust pressure sensors for high temperature applications up to 700°C (e.g. turbines)
- components for radar sensors for 'on-board' vortices detection on aircrafts
- sensor/actuator networks for flow control on aircraft wings
- Clean room for MEMS/NEMS based devices and systems
- Specific measurement equipment for electrical characterisation

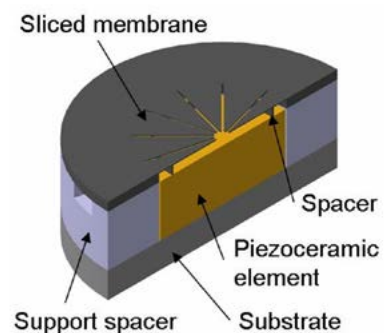


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Piezoelectric MEMS resonators for viscosity and density sensing



Micromachined actuator for flow control on aircraft wings





Aviation Technologies

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PRODUCTION

TYROLIT Schleifmittelwerke Swarovski KG

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TYROLIT is one of the world's leading manufacturers of grinding, cutting, drilling and dressing tools as well as machines for the construction industry. The family-owned company, which was founded in 1919 and is a member of the Swarovski Group, and currently has over 4,200 employees at 27 production locations in 11 countries and on five continents. TYROLIT's Metal and Precision, Industrial Trade, Construction and Stone – Ceramics – Glass divisions manufacture 80,000 different products.

Technologies and competences

TYROLIT offers a full range of high performance grinding and dressing tools. Key product lines are STRATO ULTRA, VIPER ULTRA and high precision diamond roller dressers. TYROLIT is capable of providing comprehensive application and process know-how in order to efficiently grind turbine, compressor blades and nozzle guide vanes. TYROLIT maintains close partnerships with all strategic machine tool builders and relevant research institutes.

Products and services in aviation

- highly-porous vitrified bonded grinding tools
- electroplated super abrasive grinding tools
- diamond profile roller dresser
- cut off and polishing tools



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Tyrolit – Your Partner in the Turbine Industry



Dressing of a TYROLIT Viper Ultra grinding wheel



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RESEARCH
DEVELOPMENT
PRODUCTION

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UBIMET is a leading commercial provider of precise meteorology services and severe weather warnings. The global company is headquartered in Vienna, Austria and has offices in Karlsruhe, Melbourne, Munich, New York and Zurich employing 250 staff from 25 nations. The company was founded as a start-up by Michael Fassnauer and Manfred Spatzierer in Vienna in 2004.

Products and services in aviation

Weather Cockpit: High-precision forecasts for safety & efficiency, Severe Weather Warnings when parameter thresholds are exceeded, Real-time lightning information with accuracy within 75 meters, Thunderstorm tracking: Detecting thunderstorm near the airport.

Technologies and competences

UBIMET provides high-quality meteorological data, forecasts and alerts enabling weather-dependent industries around the globe to increase safety and efficiency. UBIMET's expertise and reliable weather solutions have convinced customers from industries such as aviation and rail, construction, energy, insurance, media as well as event organizers.



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University of Applied Sciences Upper Austria - Research Center Wels

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University of Applied Sciences

The University of Applied Sciences Upper Austria is one of the leading Austrian universities of applied sciences. It offers internationally recognised, well-established, practice-oriented education at university level at four locations in the central region of Upper Austria. The University also supports the economy with cutting-edge products from its research and development centres.

Technologies and competences

The Research Center Wels is a non-profit company founded specifically to ensure the grouping and efficient processing of research and development activities at the University of Applied Sciences Upper Austria.

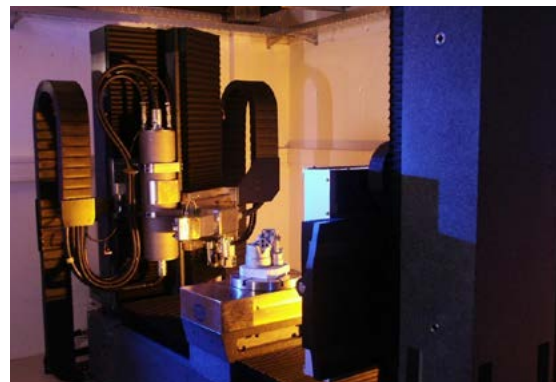
The main areas of research are: production optimisation, logistics, automation technology and simulations, measuring and testing technology, material and production engineering, energy and environmental sciences.

Products and services in aviation

- X-ray computer tomography for objects from 2m - 0.2mm at 0.3mm - 0.5µm resolution
- Talbot-Lau grating interferometer
- X-ray computed tomography
- SEM with X-ray micro-probe
- High resolution infrared cameras
- Active thermography with different excitation sources
- Digital shearography
- Grinding preparation etc.
- Data analysis software VGStudio Max, FEI Avizo, MAVI, EDEVIS DisplayIMG 6 and open_iA



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University of Salzburg - Computer Sciences Institute

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RESEARCH
DEVELOPMENT



In the area of Aerospace Research the Institute of Computer Sciences is recognised as a competence centre for aviation with regard to the development of sophisticated stochastic simulation techniques and for advanced algorithms in digital communications protocol design. This allows the simulation of today's and future European and worldwide air traffic and data communications quite accurately. The Institute is involved with all major institutions and industry in the area of aviation.

Technologies and competences

In the area of aviation, the Institute focuses on the development and performance evaluation of future digital aeronautical communication systems (e.g. VDLM2, AeroMACS, L-DACS, SatCom), future air traffic and data simulation, future airport operations, ATM/ATC Decision Support Tools, 4D-trajectory concepts, Advanced Arrival and Departure Management (A-AMAN / DMAN), weather impact on ATM/ATC, wind-optimised routes and aircraft noise evaluations.

Products and services in aviation

The Aviation Competence Center Salzburg (ACCS) offers Fast-time and Real-time (interactive) simulation environments for evaluation of future digital aeronautical communication systems including ATN/IPS and SESAR/ATM concepts, future air traffic and data traffic estimations, optimisation of algorithms for airport operations and advanced Arrival and Departure Management, tower simulator, remote tower control and RPAS/UAV mission planning.

The ACCS features a simulation laboratory for ATM/ATC exercises & training (based on Automatic Speech Recognition (ASR)), Advanced AMAN, DA42 and generic (A320, B737) flight simulators for pilot training (ASR based) and a tower simulator.

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University of Salzburg - Department of Geoinformatics - Z_GIS

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Z_GIS seeks insights into highly dynamic and complex domains in a changing world. The spatial view experts provide spatial methodologies and technologies to the natural and social sciences and engineering disciplines as well as increasingly to the digital humanities. Z_GIS scientists conduct innovative research and development in national and international projects (H2020, FFG, FWF etc.).

Technologies and competences

Current research focuses on establishing spatial monitoring and decision systems for human security, societal stability and environmental integrity. To achieve this, techniques such as automated image analysis and regionalisation, multi-scale representation and dynamic visualisation, spatial analysis, change detection and modelling, data integration and interoperable use are applied.

Products and services in aviation

- data integration and spatial databases
- modelling and analysis
- applying OGC-Standards
- conditioned information extraction and visualisation
- real-time geo-infrastructure and 'test bed' at the Salzburg airport



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VENTANA Kapfenberg GmbH (part of the VENTANA-Group)

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W www.ventana-group.eu

PRODUCTION



Ventana Kapfenberg GmbH is an investment casting company, founded in 1948 in Austria. Today the company operates in a 6.000 sqm factory with approx. 70 employees. The main markets are the aerospace, automotive, medical, industrial machinery, electronics, chemical industry, nuclear reactor applications, paper industry, offshore, military & sporting weapons and rapid prototyping sector.

Technologies and competences

In Kapfenberg, Austria, Ventana produces investment castings out of aluminium and steel. The company is capable of producing small series and prototypes according to the customers' specification. Additional support can be provided within the group for: sand castings (aluminium & magnesium), machining, assembly/repair, sheet metal work.

Products and services in aviation

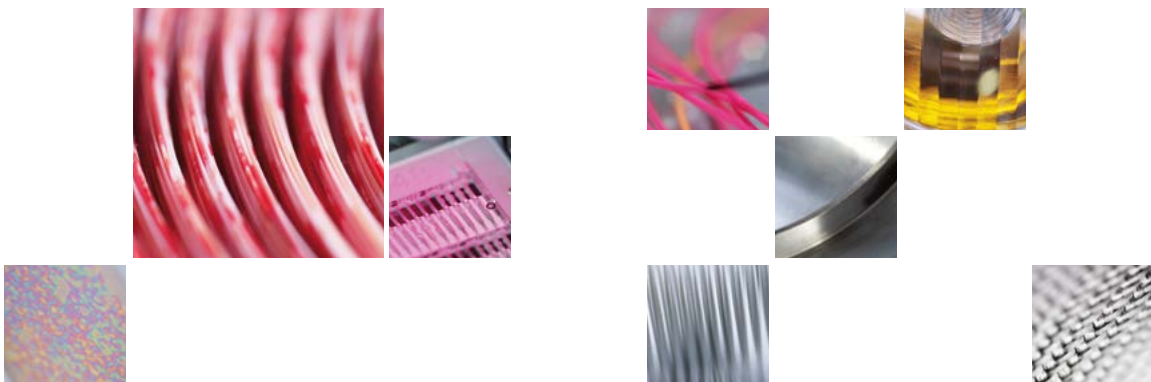
- investment castings (aluminium, steel)
- plaster mold castings (aluminium)
- sand castings (aluminium, magnesium)
- assembly/repair
- sheet metal work

Aviation standards and certifications

- EN/AS 9100



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Aviation Technologies

Aircraft | Structures | Engines | Cabin | Materials & Manufacturing Technologies |
Cockpit & Aircraft Electronics | Systems | Air Traffic Infrastructure & Control | Ground Test & Training

RESEARCH
DEVELOPMENT
PRODUCTION

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Villinger GmbH is an Austrian based company that is active in several industries, aviation being it's main market segment. While Villinger GmbH is mainly focused on the manufacture of bleedless cabin heating systems, LDI (laminar de-ice), as a sub-division from Villinger, is manufacturing electro-thermal ice protection systems for several parts and areas of the aircraft.

Technologies and competences

Villinger GmbH has developed a light weight electrically heatable polymer that can be applied on various base materials & shapes as an ultra-thin coating, offering an extremely versatile heating technology. This technology is used for the development & manufacture of innovative heating systems, de-ice & anti-ice systems for a large number of international aviation business partners.

Products and services in aviation

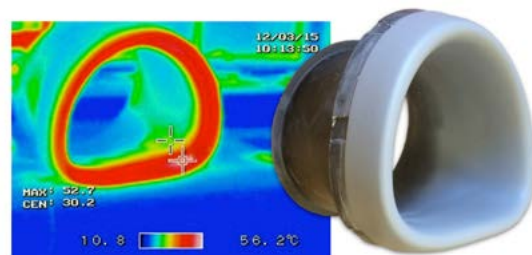
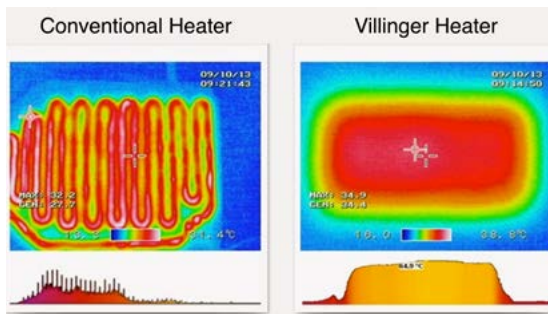
Villinger offers a new approach towards increasing passenger's comfort in modern aviation: A unique light-weight and energy efficient cabin heating technology, that can be adapted to many surfaces in the cabin, in order to eliminate cold-spots and/or generally increase passenger comfort with infrared radiation heat. This system converts various parts and surface areas in the cabin, such as sidewall panels, ceilings, floors, doors, instrument panels, and more, into large scale infrared radiators, without changing their shape or appearance in any way.

Aviation standards and certifications

- ISO 9001:2016



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DEVELOPMENT
PRODUCTION



WFL is the only manufacturer worldwide that focuses exclusively on the production of multifunctional turning-boring-milling centers. Today, in many high tech companies, the trade name MILLTURN stands for the central machine tool for the production of complex components with highest precision. Both the modular structure of the MILLTURN's and the tailor-made special solutions guarantee the perfect solution for complex manufacturing tasks.

Products and services in aviation

CNC turning-boring-milling centres (metals processing): different sizes Product name: MILLTURN



Technologies and competences

Highest precision and complex geometries characterise typical applications in aerospace. Difficult materials, high volume material removal and the frequent need for deep ID-machining operations make great demands on machining centres. And a MILLTURN can satisfy them all.

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WOLLSDORF

LEATHER

Wollsdorf Leather was founded in 1936 and the leather hides are made in a fully integrated, CO₂-neutral production facility in Austria.

Technologies and competences

Our aircraft leather can be used for all interior applications including seats, arm rests, headrests and paneling. Besides others airlines like Lufthansa or Qantas and OEM's like Honda Jet fly with Wollsdorf.

Subsidiaries in USA, Australia and China and sales partners all over the world guarantee worldwide local customer support.

Products and services in aviation

- AMBASSADOR: 35 colours permanently on stock, no minimum quantity
- F.O.C.: Free of chrome tanning
- AMBA ECO: Lightweight, less than 650 grams incl. SPS anti-soiling finish
- PREMIUM AMBASSADOR: Semi-Aniline leather for Executive Jets + 1st Class
- AMBA HR: Passes Heat Release test for paneling in commercial aircraft

Aviation standards and certifications

- EN/AS 9100
- EN ISO 14001, BS OHSAS 18001, ISO/TS 16949



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RESEARCH
DEVELOPMENT
PRODUCTION



The Spirit of Precision. As a specialist in the aerospace sector Zoerkler offers development, production and testing of transmissions and complete drive systems for helicopters and fixed wing aircrafts, precision parts as well as spur and bevel gears according to customer's requirements.

Technologies and competences

All steps are covered in-house – engineering, prototypes and small series production, assembly, testing and documentation. Zoerkler's team comprises design engineers for transmission development and FEM-analyses, specialists for manufacturing, quality assurance, assembly and testing. The drive systems are manufactured in the High-Tech machine park and tested in Zoerkler's own test stand center—one of the most modern worldwide with transmission, hydraulics, shaft and fatigue test stands.

Products and services in aviation

Complete transmission system:

- Main Gearbox
 - Tail Gearbox
 - Main Shaft
 - Tail Shaft
-
- Development, Design, Prototypes and Small Series Production, Testing, Certification, Assembly, MRO
 - High precision gears, bevel gears, landing gears, valves, machining of gearbox housings, pistons
 - Rotor parts, rotor shafts, crank shafts

Aviation standards and certifications

- EN/AS 9100
- ISO9001



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