

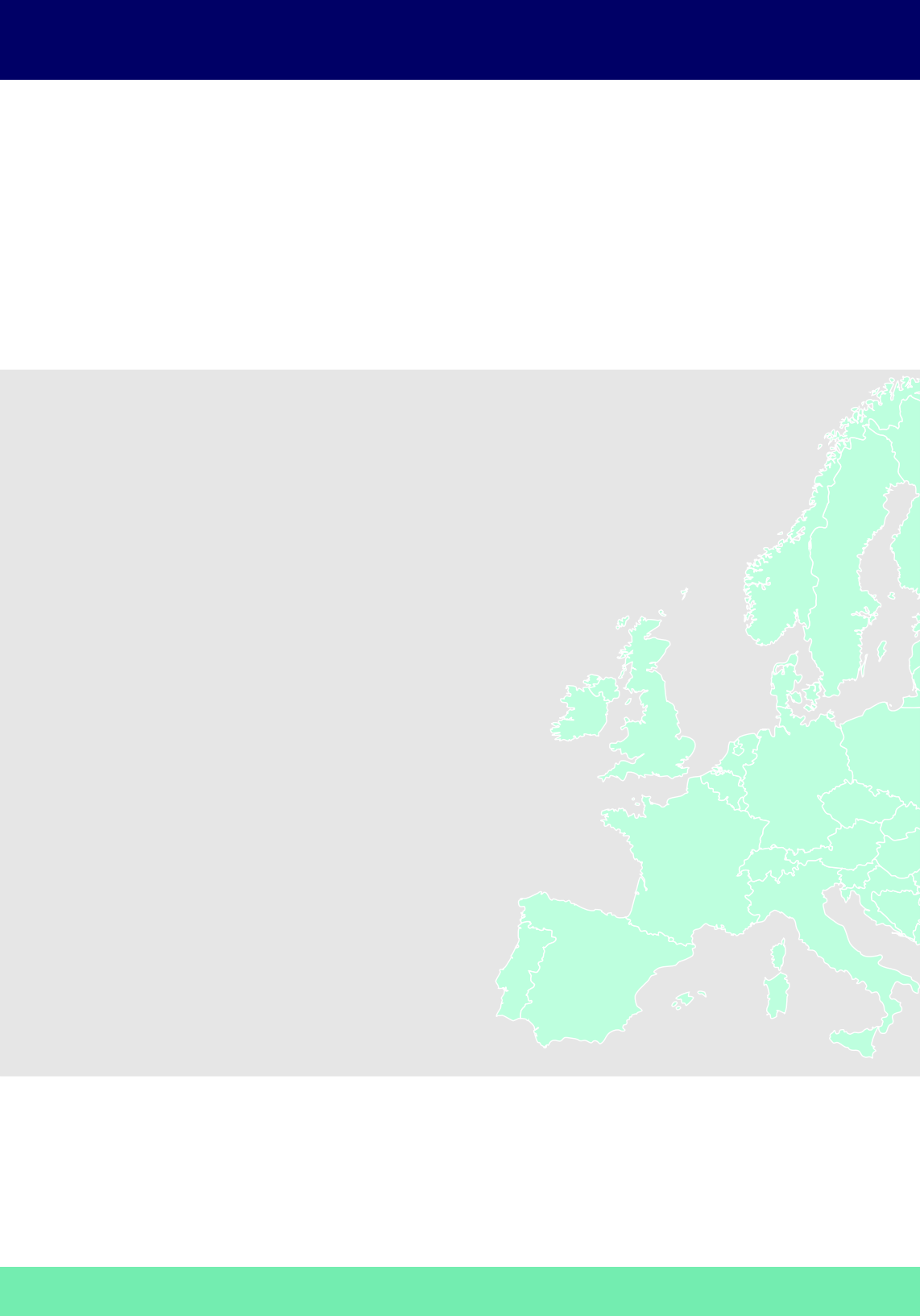
EUROPEAN AEROSPACE CLUSTER PARTNERSHIP



PNAA Conference 2017
«The Competitive Edge»

EUROPEAN DELEGATION





PNAA Conference 2017

«The Competitive Edge»

EUROPEAN DELEGATION

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EACP ABROAD PROJECT

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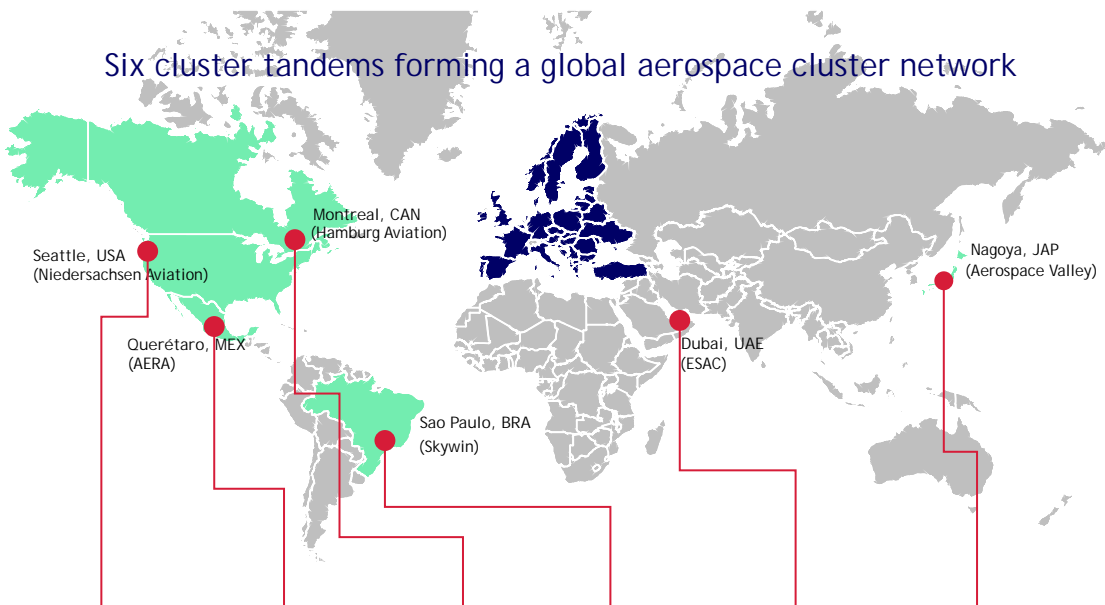
EACP ABROAD is an ambitious project to implement EACP's joint internationalisation strategy.

ABROAD proposes a programme that will

- deepen links between EACP members and foreign regions on a global scale
- introduce European SMEs on international level
- foster new international businesses and the emergence of international R&T co-operations
- provide international matchmaking opportunities
- participate at international matchmaking events
- induce operational collaboration with the international partners.

EACP is proud to collaborate with the Pacific North-West Aerospace Alliance to interconnect our industry worldwide!

Six cluster tandems forming a global aerospace cluster network





EUROPEAN AEROSPACE CLUSTER PARTNERSHIP

The European Aerospace Cluster Partnership (EACP) is a network of 40 European aerospace clusters from 15 countries. The EACP provides a permanent platform for mutual exchange, policy learning, and cooperation to achieve high-level performance among European aerospace clusters.

The EACP is the most active, visible and comprehensive aerospace cluster collaboration platform in Europe

The EACP establishes trustworthy relations through close interaction and open collaboration among European aerospace regions.

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Niedersachsen Aviation is the network for the promotion of the aviation and aerospace industry in Northern Germany.

We enhance the competitiveness of the aerospace sector and provide support for businesses, research and institutions.

Niedersachsen Aviation is your point of contact to the aerospace community in Northern Germany.





Invest in

**Niedersachsen**

STATE OF NIEDERSACHSEN

The German federal state of Niedersachsen is one of Europe's prime aerospace locations. Niedersachsen is the competence center for carbon fiber composite materials and Germany's hub for aerospace research.

The investment promotion team is your partner when it comes to planning and implementing your intentions. We offer a range of efficient services that are tailored to your specific requirements.

- We are highly familiar with all local conditions.
- We have qualified staff with special industry knowledge.
- As a public organisation, we offer you completely impartial advice free of charge.

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Federal Ministry
for Economic Affairs
and Energy

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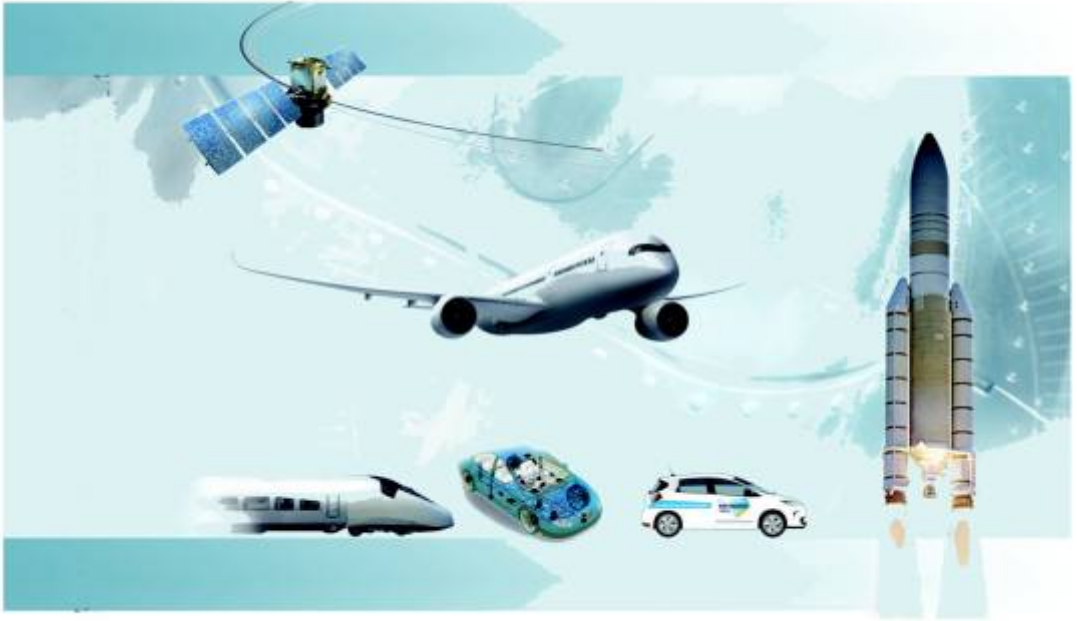
www.bmwi.bund.de

Central task of the Ministry for Economic Affairs and Energy (BMWi) is to reinvigorate the social market economy, help the German Economy to stay innovative and strengthen the social fabric in Germany.

The BMWi seeks to guarantee competitiveness and a high level of employment - with the legal, administrative and coordinating mandate in the area of energy, industry and innovation policies as well as in the area of competition, SMEs and European politics.

As a part of a modern industrial policy the BMWi intends to make the aviation industry in Germany into a global pioneer for an efficient, safe and clean air transport system.





AEROSPACE VALLEY

Aerospace Valley is one of the largest European competitiveness cluster entirely dedicated to the sectors of aeronautics, space and embedded systems. Around the main cities Toulouse and Bordeaux the cluster covers the South-West regions of France.

As of December 2016 the Aerospace Valley non-profit association has gathered 850 members from industry, research and academia, including 500+ SMEs, large corporate groups and OEMs, the major aerospace research establishments, engineering schools and local authorities.

Overall, Aerospace Valley represents one third of the French aerospace workforce, totaling over 120000 employments in 1600 industrial establishments.

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ALJO ALUMINIUM-BAU JONUSCHEIT GMBH

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For more than three decades, Aljo has been a proven supplier for machined or sheet metal formed aluminum components, welded parts, assemblies and complex structures in line with the certified aerospace processes.

As a build to print partner we offer manufacturing solutions for prototypes, single parts, as well as small and large series.

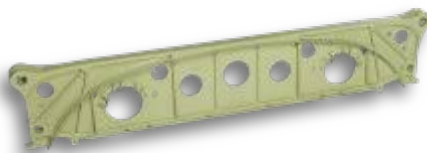
Some samples are

- Load Master Work Station
- Ducts
- Drain Mast
- Components



EXPERTS IN SERIAL CRAFTSMANSHIP





Aircraft Philipp
GROUP

AIRCRAFT PHILIPP GROUP

The Aircraft Philipp Group is a supplier for detail parts and aerostructure assemblies to OEM and Tier 1 customers and has production sites in Germany, Israel and India. As a one-stop-shop for machining and component assembly for the international aerospace industry, Aircraft Philipp covers the complete process chain from the purchasing of raw materials and production to special processes.

- Machining
- Metal Forming
- Additive manufacturing - LPM (Laser Beam)
- Non-Destructive Testing
- Surface Treatment
- Special Processes
- Assembling

The decisive factor of success for the Aircraft Philipp Group is the optimization of corporate processes and the successful integration and coordination of its worldwide supply chain.

Its motto says it all: "Every flight- a part of us." - Aircraft Philipp takes pride in the fact that its parts are used in almost every project of worldwide aviation!

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BROETJE-AUTOMATION GMBH

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Broetje-Automation is the world's leading expert for highly automated and cost efficient production processes in the aerospace industry.

Our expertise covers Automated Fastening Machines along with the newest joining technologies. We are proficient in rate-flexible assembly methods for all Airframe structures along with the techniques and equipment to process modern materials like CFRP.

Broetje-Automation's solutions include robotics as well as standard NC machines arranged as cells or assembly lines for airframe component production. Using this know-how we compose sustainable, efficient turnkey production solutions for all aircraft types.





**BREMEN
BREMERHAVEN
HOME OF INNOVATION**

BREMEN
THE SKY IS NOT THE LIMIT



Bremeninvest



Bremeninvest

BREMEN INVEST

Bremen Invest is the lead agency for attracting new business investment and encouraging the expansion of existing industries for the State of Bremen, Germany. Aerospace Bremen at Bremen Invest supports the aeronautics and space industries innovation cluster with measures like the Bremen Aerospace Research Program 2020 and the Center for Eco-efficient Materials & Technologies EcoMaT.

The Bremen aeronautics and space industries consist of more than 140 companies and 20 research institutes and universities with approximately 12,000 employees and an annual turnover of more than 4 billion euros. Primary industry leaders are the Airbus Group, OHB and their suppliers. Join us in Bremen for Space Tech Expo Europe 2017 (24-26 Oct.) and IAC 2018 (1-5 Oct.).

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Deharde, established for around 50 years, is a full service tier-1 partner for the aerospace industry.

Skilled staff with broad aviation experience performs in CNC machining, assembly and recovery. Civil and military customers worldwide benefit of one-stop fulfillment: design and production of aerospace single parts and structures, Wind Tunnel Models as well as Jigs and Tools. Deharde is "Design and Build" qualified and EN 9100/ ISO 9001 certified. Our fabrication site has a direct port connection to provide a worldwide shipping of large aerostructures. Short-term implementation of completely new processes and successful recovery projects in case of customer distress proof Deharde's high flexibility.

We can do this because we have short decision-making channels and are optimally positioned: with a first-class team, top equipment and maximum process efficiency.





DERICHEBOURG ATIS GMBH

Derichebourg Atis GmbH is the German subsidiary of the French company Derichebourg Atis aéronautique. We provide a large range of services to our customers in an international context on Airbus Final Assembly Lines and Airbus main production sites in Europe and hereby benefit from the widely recognised experience and expertise of the DERICHEBOURG group.

We are therefore able to address the multiple needs of our customers and to support them along the various stages of the aircraft construction. Our local organization allows us to hire the workforce just where it is needed.

We have thus become part and parcel of the Airbus production environment in Germany.

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In the Aerospace sector ECA Group offers a comprehensive array of innovative solutions for both the civilian and military aviation industries.

Drawing on new technology such as automation and robotics ECA Group supports major Original Equipment Manufacturers (OEM), Airlines and Maintenance Repair Overhaul (MRO) centres. With a reputation for quality, reliability and staff expertise, ECA Group provides:

- Jigs & Tools
- Assembly lines
- Ground Support Equipment
- On-board Electronics
- RF Ground Equipment
- Test Means

By integrating new technology ECA Group greatly improves the efficiency and reliability of the aircraft manufacturing and maintenance process.

MANUFACTURING LINES



PRODUCTION TOOLS



TEST MEANS



GROUND SUPPORT EQUIPMENT (GSE)





E.I.S. ELECTRONICS GMBH

EIS Electronics designs and produces electrical cable harnesses for Aerospace and Defense applications. The mid-sized enterprise runs state of the art facilities in Bremen, Bremerhaven/Germany and Kanpur/India.

Passion, Precision and Performance constitute the DNA of EIS. Its well-equipped facilities include Catia 5 design and ISO 8 Cleanrooms. More than 230 well trained professionals are equipped to handle large and small volume projects and offer on-time, on-spec performance to its customers.

The harnesses are being used in all Airbus Aircraft, Ariane 5 launch vehicles, various satellites, tanks, submarines and radars. EIS StarLight has been installed in many VVIP aircraft projects from B737BBJ to B747-8.

Core Competencies: Electrical Harness Design, Manufacturing, Customization, VVIP solutions

Certifications: EN9100, AS9110, EASA part 21G, part 145

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FormTech is supplier of the aircraft-, space-, engine-, automotive-, medical- and general- industry with sheet metal parts made from "hard metals" eg. of Titanium alloys.

FormTech's support and products guarantee best benefit for the client regarding cost, weight and technical performance.

FormTech's sheet metal parts are best characterized by "complex shape", "high accuracy", "no spring-back", "free of manual re-work", "better overall performance" and "well-suited for automated welding processes".

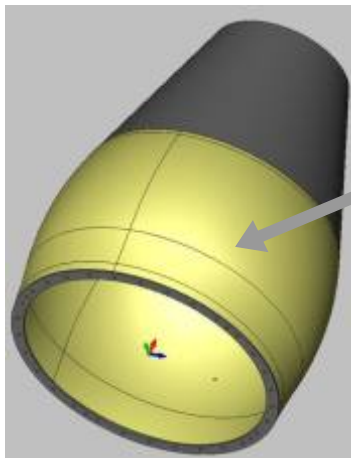
FormTech provides the market with production parts and cooperates as R&D partner as well.



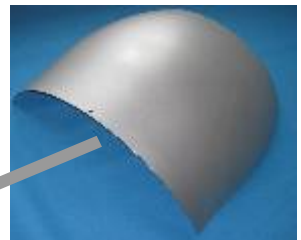
Superplastic Forming / EBW / TIG



Hot deep drawing / LBC / LBW



Exhaust Cone / LBC / LBW



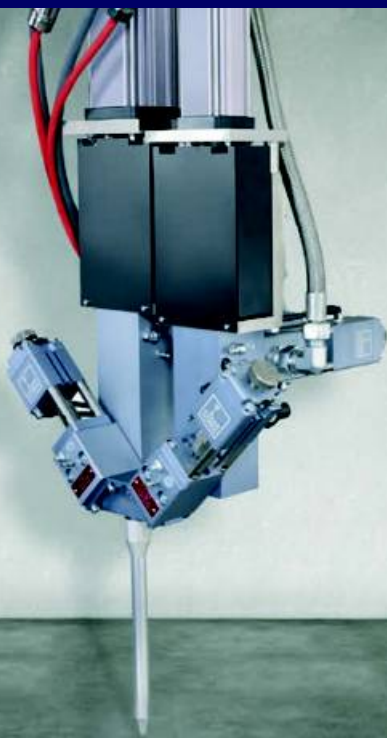
Hot deep drawing / LBC



Hot forming



Superplastic Forming / Diffusion Bonding



DOPAG / HILGER & KERN GROUP

Hilger u. Kern / Dopag Group, with more than 250 employees, is one of the leading manufacturers of metering and mixing systems in the world for plural component polymers and single component media.

As the leading company in the European Aerospace industry we supply mixing machines for many applications, such as sealant mixing, honeycomb core filling & glueing.

For more than 35 years the group, with subsidiaries and distributors in over 30 countries, has developed systems and components to suit your individual needs.

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The AVIATION FORUM Hamburg is Europe's leading aerospace procurement conference with accompanying exhibition. In 2016, more than 640 senior level participants from Tier 1-3, airlines and MRO providers had the opportunity to meet and discuss with the Chief Procurement Officers from Airbus, Boeing and Bombardier and their lower management purchasers. More than 80 global companies exhibited their latest innovations in the exhibition.

IPM organizes the conference series for the conference patron, Dr. Klaus Richter, CPO Airbus Group & Airbus, in respect of the Airbus requirements.

Join the 7th AVIATION FORUM Hamburg now and get the PNA special participation fee.

Aerospace Procurement Conference
and Exhibition
Save-the-Date: November 7 - 8, 2017

7th Aviation Forum
Hamburg 2017

Patron: Dr. Klaus Richter Chief Procurement
Officer Airbus Group & Airbus
New Venue: Messe Hamburg | Germany

Competence Partner

AIRBUS
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Partners

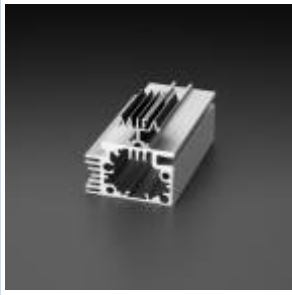
Blaser.
SWISSLUBE



SUPPLYON

T · Systems





MIFA®
EXPERIENCE PRECISION

40
YEARS
1975-2015

MIFA ALUMINIUM B.V.

Mifa specialises in extruded and machined aluminium, magnesium profiles/components, small batch R&D quantities to full scale production.

We produce fully-finished precision products with dimensional tolerance's from $\pm 0.0007"$ extruded on our four extrusion presses and $0.0004"$ machined tolerance's from our 27+ CNCs. We also have anodising and secondary finishing all on-site.

That level of precision means unprecedented possibilities and gives designers/engineers enormous freedom in design without the restrictions of standard specifications. As a result of this it is possible to achieve the optimum product.

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PREMIUM AEROTEC GMBH

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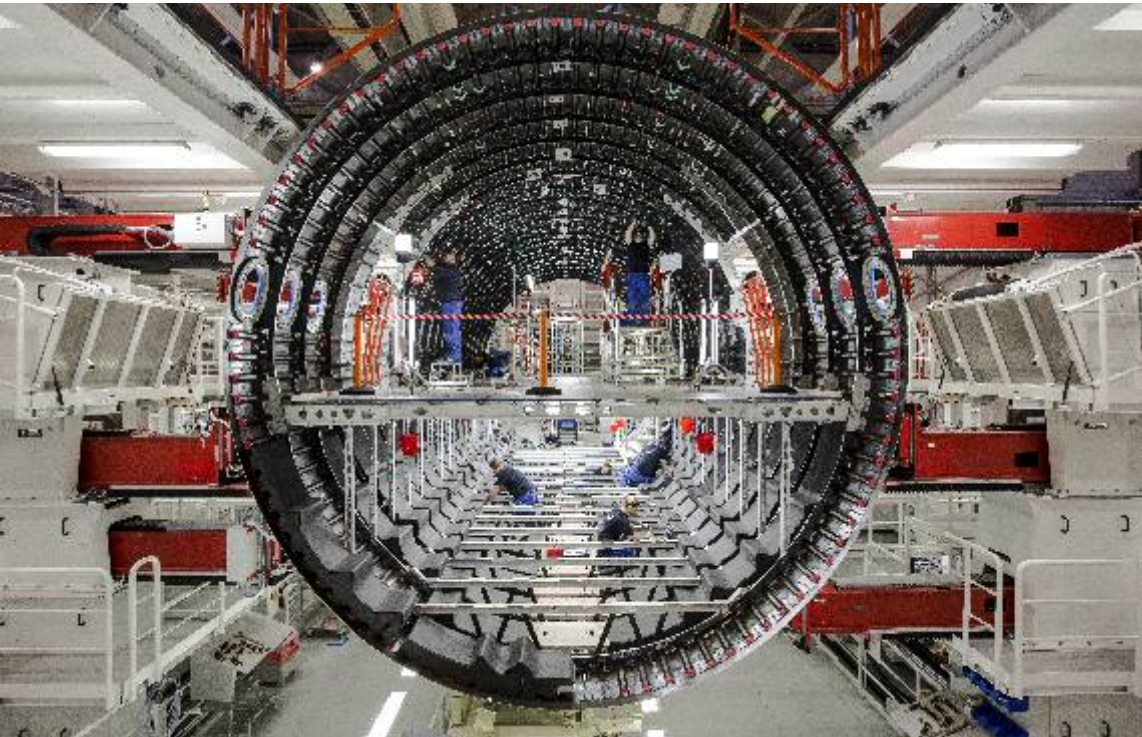
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Premium AEROTEC is one of the world's leading tier 1 suppliers of commercial and military aircraft structures and is a partner in the major European and international aerospace programs.

Its core business is the development and production of large aircraft components from aluminium, titanium and carbon fiber composites (CFRP). Premium AEROTEC is Europe's no.1 in this segment with more than 9,000 employees at various sites in Germany and Romania and a turnover of €2.0 billion in 2015.

Premium AEROTEC is represented by its products in all commercial Airbus programs. In addition, the company is making an important contribution to the Boeing B787 "Dreamliner". The current military programs include the Eurofighter "Typhoon" and the new military transport aircraft A400M.





OHNHÄUSER GMBH

We produce and supply mechanical high-precision parts, components as well as assembly groups for the aerospace industry. With our 60 years' history of success and tradition we have grown steadily and we do currently employ about 300 highly-qualified people. The company is based in Wallerstein, a small village in the western part of Bavaria, Germany.

Our expertise:

- CNC machining
- Jigs & tools
- Sheet metal
- Assembly
- Supply Chain Management

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REDUCTIA AEROSPACE, S.L.

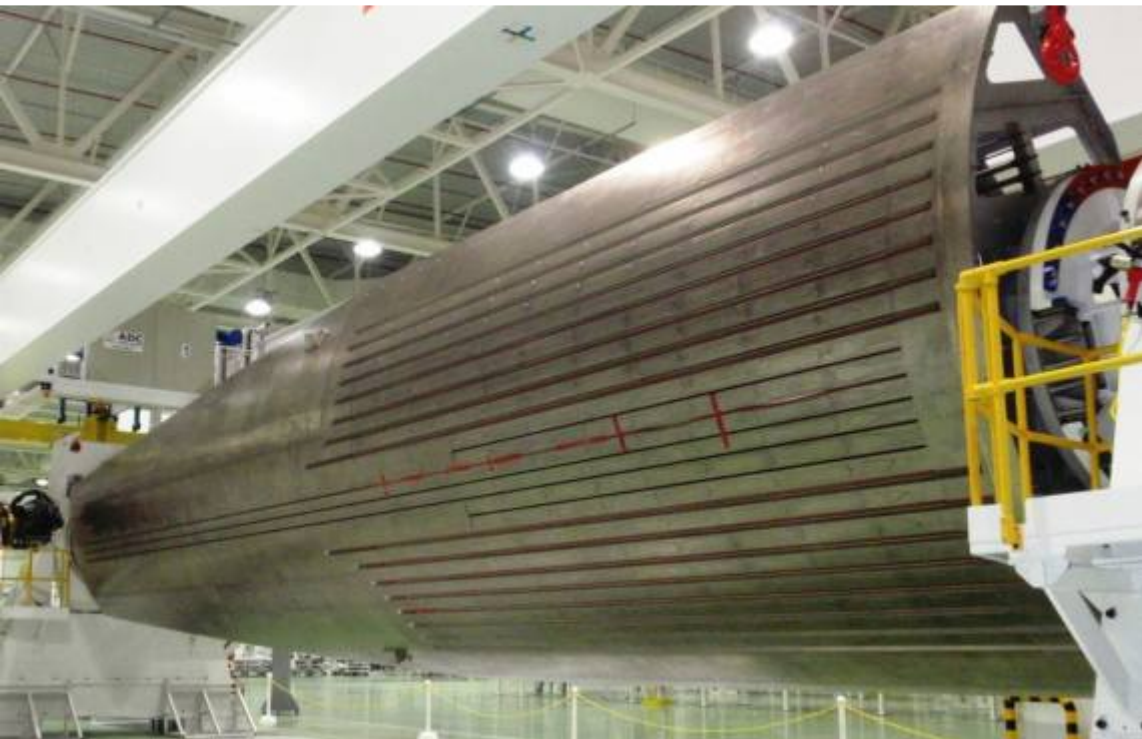
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REDUCTIA Aerospace is Tier 1 supplier for Aeronautical Composite Tooling, Assembly Jigs and Transport Jigs packages of all type of technologies for the main civil customers.

REDUCTIA Aerospace can assume full responsibility in the turnkey supply projects offering competitive solutions for the development of the tooling and jigs technologies (from specification definition to setting up in customer facilities).





Together
ahead. **RUAG**

RUAG AEROSPACE STRUCTURES GMBH

RUAG Aerostructures is a global tier-1 supplier with a service portfolio for the design and production of aircraft fuselage sections, wing components, movables, modules and systems for civil and military customers and OEMs.

RUAG Aerostructures with its approx. 1100 employees currently produces on three sites in Switzerland, Germany and Hungary utilizing a global supply chain incl. best cost country sourcing.

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Scalian is a 2000 employees Group that provides support to major industrial and service-sector companies to help them define and implement their projects in two fields:

Operations Performance:

management of projects, quality Management, industrial performance, Supply Chain Management, Lean Manufacturing

Digital Systems:

embedded and critical systems, IoT, information systems and digital solutions for the businesses

Clients include Airbus, Safran, UTAS, GE, Thales, CMC Esterline, CAE, Thales, Bombardier, Alstom, Siemens. We are based in the USA, Canada, France, Germany, Spain, Belgium, the UK, Morocco and India.

our supply chain 4.0 digital solutions





SUPPLYON

SupplyOn is a global supply chain collaboration platform built to manage business processes with suppliers and service providers across continents in a structured, transparent and secure manner.

AirSupply, SupplyOn's shared web platform, was developed to support features specific to the aerospace industry such as long product lifecycles, the need for collaborative processes with suppliers, and quality requirements.

With over 30,000 companies connected, SupplyOn supports aerospace companies around the world in creating efficient collaboration with their entire supply chains.

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