

Airbus Operations GmbH

Research and development

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

As the central pillar of the Airbus civil aircraft division, Airbus Operations GmbH manages the German activities in development and production. With a focus on structural assembly, system integration and cabin outfitting, the company is responsible for significant parts of the A320 and A350 programmes. At locations such as Hamburg, Bremen and Stade, it also drives forward strategic innovations in the areas of lightweight construction and decarbonised flying.

Airbus Operations GmbH acts as a global pacemaker for industrial lightweight construction. At the heart of this expertise is the substitution of conventional materials with carbon fibre reinforced plastics (CFRP) and innovative metal alloys in order to significantly reduce structural weight and maximise fuel efficiency. The plant in Stade is the international competence centre for CFRP technology. Complex large components such as vertical stabilisers and fuselage shells are manufactured here using highly automated processes. One focus is on the integral construction method, which reduces the number of components and connecting elements. Airbus also relies on additive manufacturing (3D printing) and bionic design. Computer-aided topology optimisation means that material is only used where it is essential for load transfer. This enables highly complex geometries with minimal use of resources.

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Hamburg
Germany
airbus.com



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

Airbus Operations GmbH

Research and development

About this organisation

Main areas covered Aircraft construction

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Others (Civil aircraft)			✓
<i>Services & consulting</i>			
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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Research **Development** **Manufacturing & Supply**

Manufacturing process

Additive manufacturing

Coating (surface engineering)

Fibre composite technology

Forming

Joining

Material property alteration

Primary forming

Processing and separating

Textile technology

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

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Contacts

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