About this organisation

Machine translation

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Airbus Defence and Space, a division of the Airbus Group, is the leading defence and space company in Europe. The main German sites are Ottobrunn: Research, development, space equipment, satellite products Manching: aircraft development/integration/final assembly/maintenance/maintenance Bremen: Aircraft assemblies, launch vehicles, space research/development Friedrichshafen: satellite construction, space travel, target drones

Due to the complex product portfolio, the lightweight construction competences are diverse and tailored to the needs of the aerospace industry. Areas of expertise include Materials, construction methods, simulation, structural optimisation, innovative technologies and manufacturing processes.

Willy-Messerschmitt-Str. 1 82024 Taufkirchen Bavaria Germany

☑ www.airbusdefenceandspace.com



Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a



Main areas

Aircraft and aerospace structures, Innovative materials, Modern surface protection processes, Production & maintenance/setting, Technology development

Infrastructure

Final assembly aircraft construction, Simulation and test systems, Satellite construction, High-tech laboratories, Flight testing

Certifications

LufABw-LTB-005-16, LufABw-21-J-001-16, LBA21J.0100, EASA21J.026, EN9100,

Keywords

Aerospace technology

Memberships

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Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Offer **Products** Parts and components, Software & databases, Systems and end products, Materials **Services & consulting** Training, Testing and trials, Engineering, Standardisation, Prototyping, Simulation, Maintenance and repair, Approval Field of technology **Design & layout** Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction **Functional integration** Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis Modelling and simulation Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation Plant construction & factory automation Recycling technologies

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Textile technology

Braiding, Preforming, Knitting

Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Manufacturing process Additive manufacturing 3D printing, Deposition welding, Selective laser melting (SLM, LPBF, ...), Stereolithography **Coating (surface engineering)** Galvanising, Painting, Plasma process, Sputtering Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Prepreg processing, Vacuum infusion **Forming** Bending, Thermal converting **Joining** Hybrid joining, Adhesive bonding, Soldering, Sewing, Riveting, Screwing, Welding Material property alteration Mechanical treatment, Thermochemical treatment, Thermomechanical treatment, Heat treatment **Primary forming** Processing and separating Drilling, Turning, Milling, Sawing, Shearing/ punching, Grinding, Cutting

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Overview of lightweighting expertise

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	Research	N Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Nanocomposites, Laminates	✓	✓	✓
Fibres Aramid fibres, Glass fibres, Ceramic fibres, Carbon fibres		✓	✓
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓		~
Metals Aluminium, Magnesium, Steel, Titanium		✓	✓
Plastics Thermoset plastics, Elastomers, Thermoplastics		✓	✓
Structural ceramics Non-oxidic ceramics, Oxidic ceramics, Ultrahigh-temperature ceramics		✓	✓
(Technical) textiles Meshes, Laid webs, Woven fabrics, Knitted fabrics, Nonwovens, mats			✓

Contacts

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Contacts

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