

Diehl Aviation

About this organisation

Machine translation

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

Within the Diehl Group, Diehl Aviation offers research and development of aircraft interiors and systems for all well-known aircraft manufacturers and airlines.

Our service portfolio includes: Design, Simulation, Testing, Prototyping, Serialisation, Certification, Production and Customer Support of Passenger Aircraft Interior, Monuments, Tubing(ECS, W&W, Drainage..) and Equipment.

Am Flugplatz 1
88471 Laupheim
Baden-Württemberg
Germany
www.diehl-aviation.com



Organisation type

Large enterprises

Sector



Employees

500 and more

Turnover

More than €50m

Funding

n/a



Main areas covered

Aircraft interiors, Aircraft air conditioning pipework, Aircraft compartments, Aircraft toilets, Aircraft galleys

Infrastructure

Test benches incl. fatigue strength

Certifications

ISO 9100, EASA 21J, 21G, 145

Keywords

From cockpit to cabin

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products, Others (Aircraft systems (cabin mgt, door, high-lift, water/wastewater, fire warning))	✓	✓	✓
<i>Services & consulting</i>			
Field of technology			
Design & layout Hybrid structures, Lightweight construction concepts, Lightweight material construction, Others (Interior)	✓	✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction & automation</i>			
Recycling technologies Downcycling, Material separation, Recycling, Upcycling	✓		

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing	✓	✓	✓
Coating (surface engineering) Painting, Powder coating	✓	✓	✓
Fibre composite technology Manual lamination, Pre-preg processing	✓	✓	✓
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding, Soldering, Riveting, Screwing	✓	✓	✓
Material property alteration Mechanical treatment	✓	✓	✓
Primary forming Injection moulding	✓	✓	✓
Processing and separating Drilling, Milling, Cutting		✓	✓
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams	✓	✓	✓
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	✓
Fibres Aramid fibres, Glass fibres, Carbon fibres	✓	✓	✓
Functional materials Electrorheological/magnetorheological fluids, Electrostrictive / magnetostrictive materials, Shape memory materials, Piezoelectric materials	✓		
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	✓
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
Structural ceramics Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics	✓		
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓		

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Contacts

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