

# 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](http://www.diehl-aviation.com)

**DIEHL**  
Aviation

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

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## Overview of lightweighting expertise

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

## Overview of lightweighting expertise

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

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## Contacts

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