

About this organisation

Advanced-Materials-Concepts is an expert network, providing technical and commercial services in the area of advanced materials and their processes. We help our customers to select the right material or the right process for their applications. We are continually advancing innovative materials and processes to provide our customers with cutting-edge, custom-tailored and best available solutions.

The Right Material – The Right Process: Materials are dominating the world and are vital to society as we know it. Countless different materials are available that offer a wide range of specific properties. While for many applications the selection of the material is relatively straight forward, there are many other and new demanding applications, where the selection of the right material is challenging. This is where our expertise lies. Advanced-Materials-Concepts GmbH are offering an expert knowledge in materials with a strong focus on metallic materials such as aluminium (including aluminium-lithium) and titanium, their manufacturing processes and applications across space & aerospace, race & automotive and many other industries. We are supporting the selection of the right material for your applications, whether this is an off-the-shelf material or an innovative special material. We are experts for material technology transfer, e. g. from aerospace to automotive.

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Organisation type
Small or medium-sized enterprise

Sectors
A row of eight black icons: a car, a lightning bolt, an airplane, a camera, a plus sign, a truck, a gear, and a wrench.

Employees
Up to 9

Turnover
n/a

Funding
n/a

| | |
|---------------------------|--|
| Main areas covered | Materials & Processes, Specification & Qualification, Business Development & Innovation, Due Diligence & Consultancy Service |
| Infrastructure | n.a. |
| Certifications | n.a. |
| Keywords | lightweight materials, aluminium, titanium, nickel alloys, aerospace, space, automotive, race, additive manufacturing |
| Memberships | n.a. |

Overview of lightweighting expertise

| | Research | Development | Manufacturing & Supply |
|---|----------|-------------|---------------------------|
| Offer | | | |
| Products Parts and components, Semi-finished parts, Machines and plants, Software & databases, Materials | ✓ | ✓ | ✓ |
| Services & consulting Training, Consulting, Testing and trials, Standardisation, Prototyping, Validation, Simulation, Technology transfer, Approval | ✓ | ✓ | ✓ |
| 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> | | | |
| Manufacturing process | | | |
| <i>Additive manufacturing</i> | | | |
| <i>Coating (surface engineering)</i> | | | |
| <i>Fibre composite technology</i> | | | |
| <i>Forming</i> | | | |
| <i>Joining</i> | | | |
| <i>Material property alteration</i> | | | |
| <i>Primary forming</i> | | | |
| <i>Processing and separating</i> | | | |
| <i>Textile technology</i> | | | |

| Overview of lightweighting expertise | | | |
|---|----------|-------------|---------------------------|
| | Research | Development | Manufacturing & Supply |
| Material | | | |
| Biogenic materials | | | |
| Cellular materials (foam materials) | | | |
| Composites | | | |
| Fibres | | | |
| Functional materials | | | |
| Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium | ✓ | ✓ | ✓ |
| Plastics | | | |
| Structural ceramics | | | |
| (Technical) textiles | | | |

| Contacts | |
|--|--|
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