AIRBUS APWORKS GmbH

About this organisation

Machine translation

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

As a wholly owned subsidiary of Airbus, Airbus APWORKS GmbH utilises proven concepts from the aviation industry for a wide range of industries. With a focus on metallic 3D printing (additive manufacturing), the company covers the entire value chain for the production of components and spare parts - from optimised component design, the selection of suitable materials and prototype construction through to qualified series production

Additive manufacturing offers a high degree of design freedom. This enables structures that were previously almost impossible to produce. Ultimately, material is only available on components where it is really needed to withstand loads. Combining the advantages of metallic 3D printing with new materials opens up further possibilities in the production of components. For this reason, APWORKS has developed its own material that combines the strength of titanium with the density of aluminium. These properties make Scalmalloy® an interesting material for robotics, automotive engineering, medical technology and aerospace engineering.

Willy-Messerschmitt-Straße 1
82024 Taufkirchen
Bavaria
Germany
www.apworks.de

Organisation type
Small or medium-sized enterprise

Sectors

Employees
10 up to 49

Turnover
€2m - €10m

Funding
n/a





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Main areas covered	3D printing / additive manufacturing, Topology optimisation, Lightweight materials such as Scalmalloy, Design for 3D printing (AM)
Infrastructure	3D printing production systems, Post-processing 3D printing
Certifications	EN 9100, ISO 9001
Keywords	Scalmalloy, Additive manufacturing, Topology optimisation, Design for 3D printing, Simulation
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases, Systems and end products, Materials, Tools and moulds			✓
Services & consulting Training, Consulting, Engineering, Prototyping, Validation, Simulation			✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Lightweight construction concepts			✓
Functional integration Media conductivity, Thermal activation			✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis			✓
Modelling and simulation Crash behaviour, Loads & stress, Multiphysics simulation, Optimisation, Structural mechanics, Materials			✓
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser sintering (SLS)			✓
Coating (surface engineering) Painting, Powder coating			✓
Fibre composite technology			
Forming			
Joining Adhesive bonding, Welding			✓
Material property alteration Heat treatment			✓
Primary forming			
Processing and separating Drilling, Turning, Milling, Honing, Sawing, Grinding, Cutting			✓
Textile technology			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals Aluminium, Steel, Titanium, Others (Scalmalloy)			✓
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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