

About this organisation

Machine translation

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

AVANCO Composites is a leading company in the development, production, processing and finishing of lightweight construction products made of fibre-reinforced plastics based on carbon, glass and other fibre materials. AVANCO Composites has more than 40 years of experience in the field of lightweight construction solutions made of aluminium and carbon fibre composites.

From the initial idea to series production, AVANCO Composites offers all steps of the development and production process from a single source. AVANCO Composites utilises various manufacturing processes and materials. Laser-assisted tape winding or tape laying is a process in which thermoplastic tapes are placed on a core and welded together over their entire surface in a single process step (in-situ consolidation). The wet winding process is characterised by the fact that semi-finished fibre products are wetted with a matrix and deposited on a winding core. The wetted components are cured in the oven. Thermoplastic profiles with a wide variety of geometries can be produced using the (continuous) hot pressing process. This results in complex profiles as well as plate-shaped components for various applications. The mechanical properties can be adapted to the requirements by adjusting the fibre orientation.

Planckstr. 15
32052 Herford
North Rhine-Westphalia
Germany
www.avanco-composites.de/



Organisation type

Large enterprises

Sectors

No specific sector

Employees

250 up to 499

Turnover

More than €50m

Funding

About this organisation

Main areas covered Winding tubes, Sleeves, Bandages, Profiles

Infrastructure

Certifications

Keywords

Memberships Composites United e.V.

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer, Maintenance and repair		✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures	✓	✓	✓
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Filament winding	✓	✓	✓
Forming			
Joining			
Adhesive bonding, Riveting, Screwing			✓
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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