

About this organisation

Machine translation

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

carbovation gmbh, part of the Murtfeldt Group from Dortmund, is a specialist in the development and production of integrative and hybrid lightweight solutions based on high-quality fibre composite materials. Our expertise lies in solving complex and customer-specific challenges and thereby offering the customer targeted added value. Consultancy, development and production from a single source.

Through different system technologies: - Fibre winding technology up to 8.3m and Ø 1.4m - Prepreg autoclave technology up to 12m, Ø 1.7m and 200 °C curing temperature - Various liquid impregnation processes (resin injection, resin infusion and combination processes) and the possibility of customised component implementation: - Multi-stage winding processes for the realisation of integral components - Realisation of undercuts and changing geometries - Integration of functional elements (inserts, force introduction, openings, etc.) - Complex component geometries - Hybrid material combinations (plastic - plastic; plastic - metal) - Sandwich structures - Non-detachable connections such as adhesive processes - Detachable connections such as clamps or screw connections We can offer our customers exactly the product they need and provide them with the decisive added value for their application.

Otto-Lilienthal-Straße 15
88046 Friedrichshafen
Baden-Württemberg
Germany

www.carbovation.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

50 up to 249

Turnover

€10m - €50m

Funding

n/a

About this organisation

Main areas covered	Mechanical and plant engineering, Aerospace technology, Medical technology, Architecture, High-quality sports equipment
Infrastructure	Fibre winding technology up to 8.3m & Ø1.4m, Autoclave technology up to 12m & Ø 1.7m, Liquid impregnation process (RI&RTM), Prototype construction
Certifications	EN 9100:2018 based on ISO 9001:2015
Keywords	
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Machines and plants, Systems and end products, Tools and moulds		✓	✓
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Maintenance and repair			✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		✓	✓
Functional integration Media conductivity, Sensor technology, Material functionalisation		✓	✓
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
Plant construction & automation Automation technology, Handling technology, Robotics		✓	✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing		✓	✓
Coating (surface engineering) Painting		✓	✓
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	✓
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding, Riveting, Screwing		✓	✓
Material property alteration Heat treatment		✓	✓
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting		✓	✓
Textile technology Preforming		✓	✓

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics, Biocomposites		✓	✓
Cellular materials (foam materials) Closed-pore, Open-pore		✓	✓
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates		✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres		✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers		✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Woven fabrics, Nonwovens, mats		✓	✓

Contacts

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Contacts

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