

CME Carbon Materials Engineering

Innovation consulting and expert reports

About this organisation

Machine translation

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

Every innovation is based on an idea or invention, which in itself does not guarantee economic success. An innovation in the economic sense only exists when a benefit in the form of a product, a production or business process is recognisably implemented.

The transfer of ideas and inventions into a realisable business model is a process that requires close interaction with future users. This process is often associated with major technical and financial risks. The transfer of ideas and inventions into a realisable business model is a process that requires close interaction with future users. The innovation mentor accompanies this process from the idea to the project to the successful product through targeted moderation. Dr Michael Heine has taken on the role of innovation mentor at CCeV. He has many years of business experience at SGL Carbon and has access to current research through an extensive interdisciplinary network. He has more than 35 years of experience in the field of carbon fibres and composite materials, including 25 years at SGL Carbon.

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Germany

carbonmaterialsengineeringcme.business.site/?utm_source=gmb&utm_medium=referral



Organisation type

Small or medium-sized enterprise

Sector



Others: Leichtbau mit Carbonfasern und Verbundwerkstoffe

Employees

Up to 9

Turnover

n/a

Funding

n/a

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Main areas covered Carbon composites process chain

Infrastructure

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Systems and end products, Materials, Tools and moulds, Others: null	✓	✓	✓
Services & consulting Consulting, Testing and trials, Funding, Prototyping, Technology transfer, Maintenance and repair, Approval, Others: null	✓	✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
<i>Design & layout</i>			
Functional integration Material functionalisation	✓	✓	
Measuring and testing technology System analysis, Others: null	✓	✓	
<i>Modelling and simulation</i>			
Plant construction & factory automation Automation technology, Others: null	✓	✓	✓
Recycling technologies Downcycling, Material separation, Recycling, Upcycling	✓	✓	✓

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Laminated object manufacturing (LOM)	✓	✓	
<i>Coating (surface engineering)</i>			
Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	✓
<i>Forming</i>			
Joining Hybrid joining, Adhesive bonding	✓	✓	
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Knitting, Textile surface treatment and finishing, Nonwoven & mats production, Weaving, Knitting, laid web production	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites, Wood	✓	✓	✓
<i>Cellular materials (foam materials)</i>			
Composites Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Short fibre-reinforced concrete, Metal-ceramic composite, Nanocomposites, Natural fibre reinforced plastics (NFRP), Laminates, Textile-reinforced concrete	✓	✓	
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, Thermoplastics	✓	✓	
Structural ceramics Non-oxidic ceramics, Ultra-high-temperature ceramics	✓	✓	
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	

Contacts

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Mr Dr. rer. nat. Michael Heine, Dipl.-Chem.

Innovation mentor

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