

KVB Institute for Construction and Composite Structures non-profit organisation

Research institute

About this organisation

Machine translation

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

The Institut für Konstruktion und Verbundbauweisen gemeinnützige GmbH (KVB gGmbH) in Döbeln, Saxony, is a recognised and innovative research institute in the field of fibre-reinforced plastics (FRP). Based on our understanding of chemical-physical processes in the manufacture and use of FRP components, we are able to develop application-orientated calculation, manufacturing and testing methods.

Thanks to our well-equipped 330 m² test area (RTM technology, thermoset and thermoplastic presses, winding machine, measuring laboratory, etc.) our qualified employees are able to verify calculations, test materials and components and produce component series.

Am Fuchsloch 10
04720 Döbeln
Saxony
Germany
www.kvb-forschung.de



Organisation type

Non-university research institution

Sectors



Employees

10 up to 49

Turnover

Up to €2m

Funding



[Projects in the funding catalogue](#)

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Main areas covered	Function integration, Structural mechanics, Concept development, Process optimisation, Trial and testing
Infrastructure	Winding machine, Thermoset and thermoplastic presses, RTM technology, Measuring laboratory with various test benches, Design and simulation software
Certifications	
Keywords	
Memberships	

Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products, Tools and moulds	✓	✓	✓
Services & consulting Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer, 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 Sensor technology, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis	✓	✓	✓
Modelling and simulation Loads & stress, Optimisation, Processes, Structural mechanics, Materials	✓	✓	✓
<i>Plant construction & factory automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
<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	✓	✓	✓
Forming Compression moulding, Thermal converting	✓	✓	✓
Joining Adhesive bonding, Riveting, Screwing			✓
<i>Material property alteration</i>			
<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			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	✓

Contacts

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Contacts

Mr Markus Mütsch

Managing Director

info@kvb-forschung.de