

# KVB Institute for Construction and Composite Structures non-profit organisation

## Research institute

### About this organisation

#### Machine translation

This organisation 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 m<sup>2</sup> 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](http://www.kvb-forschung.de)



#### Organisation type

Non-university research institution

#### Sectors



#### Employees

10 up to 49

#### Turnover

Up to €2m

#### Funding

#### 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

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## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Systems and end products, Tools and moulds	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Engineering, Prototyping, Simulation, Technology transfer, Maintenance and repair	✓	✓	✓
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
<b>Functional integration</b> Sensor technology, Material functionalisation	✓	✓	✓
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis	✓	✓	✓
<b>Modelling and simulation</b> Loads & stress, Optimisation, Processes, Structural mechanics, Materials	✓	✓	✓
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

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

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<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)	✓	✓	✓
<b>Fibres</b> Aramid fibres, Basalt fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
<b>Plastics</b> Thermoset plastics, Elastomers, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	✓

### Contacts

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*Research institute*

**Contacts**

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