

## About this organisation

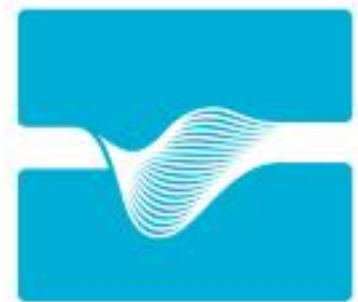
### Machine translation

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

FiberCheck GmbH is a spin-off from Chemnitz University of Technology and combines expertise in the fields of sensor technology, electrical engineering and lightweight structural engineering. FiberCheck GmbH develops and markets an innovative sensor system for monitoring fibre composite materials. The main field of application is the monitoring of rotor blades and yield optimisation of wind turbines.

Wind turbines are one of the most important energy suppliers of the future. The highly stressed rotor blades in particular suffer from their difficult operating conditions: enormous wind forces, severe weather changes and the desire for constant availability pose a major challenge for the economic viability of this energy source. With their specially developed sensor technology, even minor damage can be detected at an early stage, the turbines optimised and availability permanently increased. The core competences of the company founders are embroidered, material-integrated sensors and high-tech silicon AE sensors developed in-house. This innovative combination also enables use in other fields of application: the FiberCheck system will soon also be able to monitor and optimise vehicles, prostheses, bicycle frames and carbon components.

Technologie-Campus 1  
09126 Chemnitz  
Saxony  
Germany  
[www.fibercheck.de](http://www.fibercheck.de)



FIBERCHECK

### Organisation type

Small or medium-sized enterprise

### Sectors

No specific sector

### Employees

Up to 9

### Turnover

Up to €2m

### Funding

## About this organisation

**Main areas covered** Sensors, Electronics, Monitoring systems

**Infrastructure**

**Certifications**

**Keywords**

**Memberships**

## Overview of lightweighting expertise

### Machine translation

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Software & databases, Materials		✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Prototyping, Technology transfer, Maintenance and repair		✓	✓

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight construction concepts, Lightweight material construction		✓	✓
<b>Functional integration</b> Actuator technology, Sensor technology, Thermal activation	✓	✓	✓
<b>Measuring and testing technology</b> Component and part analysis, System analysis, Non-destructive analysis	✓	✓	✓
<b>Modelling and simulation</b> Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Reliability validation	✓	✓	✓
<b>Plant construction &amp; automation</b> Handling technology		✓	
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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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> Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion		✓	✓
<i>Forming</i>			
<b>Joining</b> Adhesive bonding, Soldering, Riveting		✓	✓
<b>Material property alteration</b> Mechanical treatment, Thermomechanical treatment, Heat treatment		✓	✓
<i>Primary forming</i>			
<i>Processing and separating</i>			
<b>Textile technology</b> Knitting, Textile surface treatment and finishing		✓	✓

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<b>Fibres</b>			
Glass fibres, Carbon fibres		✓	✓
<b>Functional materials</b>			
Shape memory materials, Piezoelectric materials		✓	✓
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

## Contacts

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**Contacts**

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