FiberCheck
Ltd.

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

Organisation type
Small or medium-sized enterprise

Sectors
No specific sector

Employees
Up to 9

Turnover
Up to €2m

Funding

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About this organisation

Main areas covered	Sensors, Electronics, Monitoring systems
Infrastructure	
Certifications	
Keywords	
Memberships	

Overview of lightweighting expertise

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

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Overview of lightweighting expertise

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

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion		✓	✓
Forming			
Joining Adhesive bonding, Soldering, Riveting		✓	✓
Material property alteration Mechanical treatment, Thermomechanical treatment, Heat treatment		✓	✓
Primary forming			
Processing and separating			
Textile technology Knitting, Textile surface treatment and finishing		✓	✓

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Overview of lightweighting expertise

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

Contacts

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Contacts

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