Complex Fibre Structures GmbH

About this organisation

Machine translation

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

Complex Fiber Structures GmbH (CFS) is an engineering and software development company based in Dresden that specialises in highly resilient fibre-plastic composite structures. CFS was founded in 2013 from the Leibniz Institute of Polymer Research Dresden e. V.

The aim of the company is to make new methods available for the design, layout and production of variable-axial FRP structures using software applications. With the help of these tools, the material potential for extremely lightweight construction applications, such as those that can be realised with Tailored Fibre Placement (TFP) technology, can be fully exploited in the future. CFS also supports you in the development of your complex lightweight construction applications as well as with specific questions on the subject of tailored fibre placement.

Katharinenstraße 11-13
01099 Dresden
Saxony
Germany
www.complex-fiber-structures.de

Organisation type
Small or medium-sized enterprise

Sectors

Employees
Up to 9

Turnover
n/a

Funding
n/a

Main areas covered	Design fibre-plastic composites, Software development fibre placement, Engineering of lightweight structures
Infrastructure	Design software for FKV, Design tools for TFP processes
Certifications	
Keywords	Software development, Fibre composite design, Engineering lightweight construction
Memberships	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Training, Consulting, Engineering, Simulation		✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight construction concepts, Lightweight material construction		✓	
Functional integration			
Measuring and testing technology			
Modelling and simulation Loads & stress, Optimisation, Processes, Structural mechanics, Materials, Others (Design, layout and simulation of variable-axial lightweight structures, such as those produced using the Tailored Fibre Placement (TFP) process)	✓	✓	✓
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Others (Tailored fibre placement process)		✓	
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology Preforming, Others (Tailored fibre placement process)		✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP)		✓	
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles Others (Design of variable-axial preforms, including on the basis of the tailored fibre placement process)		✓	

Contacts

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Contacts

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