

ZFL Centre for Fibre Composites and Lightweight Construction Haldensleben

Affiliated institute of the Magdeburg-Stendal University of Applied Sciences

About this organisation

Machine translation

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

The Centre for Fibre Composites and Lightweight Construction Haldensleben sees itself as a cross-industry scientific service provider for companies involved in the development and production of fibre composite components or semi-finished products made of fibre composites. Our portfolio ranges from technological consulting and process optimisation to mechanical and analytical testing and prototype development.

Services: - Prototype development and construction, especially with fibre-plastic composites - process optimisation - Mechanical and thermoanalytical material and component testing - Damage analysis and assessment - plastography - Finite element calculations, structural simulation - Partner for research projects - Customised further training

Neuhaldensleber Straße 22 a
39340 Haldensleben
Saxony-Anhalt
Germany

www.zfl-haldensleben.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

Up to 9

Turnover

Up to €2m

Funding

n/a

Main areas covered Material and component testing, Process optimisation, Damage assessment, FEM structural analyses, Customised further training

Infrastructure Tensile, compression, torsion, bending pret., Pultrusion, infusion, autoclave, Light and digital microscope, Air conditioning and heating cabinets, DSC, DMA, TGA

Certifications

Keywords Lightweight construction/prototyping, Mechanical/thermal testing, Biaxial testing, Structural simulation, Further training

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Systems and end products, Materials	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis			✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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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 Filament winding, Manual lamination, Resin infusion process, Pre-preg processing, Vacuum infusion	✓	✓	✓
<i>Forming</i>			
Joining Adhesive bonding, Riveting, Screwing, Welding	✓	✓	✓
<i>Material property alteration</i>			
Primary forming Pultrusion	✓	✓	✓
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting			✓
<i>Textile technology</i>			

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites, Wood			✓
<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), Laminates	✓	✓	✓
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>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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