Affiliated institute of the Magdeburg-Stendal University of Applied Sciences

About this organisation

Machine translation

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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



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	

leichtbauatlas.de Page 1 of 5

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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	✓	✓	✓	
Plant construction & automation				
Recycling technologies				

leichtbauatlas.de Page 2 of 5

Affiliated institute of the Magdeburg-Stendal University of Applied Sciences

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	Research	Development	Manufacturing & Supply	
Manufacturing process				
Additive manufacturing				
Coating (surface engineering)				
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Pre-preg processing, Vacuum infusion	✓	✓	✓	
Forming				
Joining Adhesive bonding, Riveting, Screwing, Welding	✓	✓	✓	
Material property alteration				
Primary forming Pultrusion	✓	✓	✓	
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting			✓	

leichtbauatlas.de Page 3 of 5

Affiliated institute of the Magdeburg-Stendal University of Applied Sciences

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	Research	M Development	1anufacturing & Supply		
Material					
Biogenic materials Biocomposites, Wood			✓		
Cellular materials (foam materials)					
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		✓	✓		
Functional materials					
Metals					
Plastics Thermoset plastics, Elastomers, Thermoplastics			✓		
Structural ceramics					

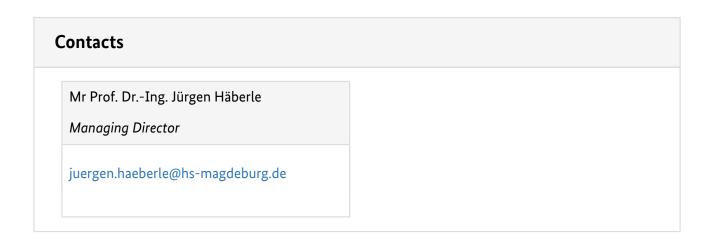
Contacts

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leichtbauatlas.de Page 4 of 5

Affiliated institute of the Magdeburg-Stendal University of Applied Sciences



leichtbauatlas.de Page 5 of 5