Fraunhofer Application Centre HOFZET

About this organisation

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With its HOFZET application centre, the Fraunhofer WKI stands for innovative, application-oriented research and expertise in the field of bio-based composites.

HOFZET's research focuses include the development of application-specific, optimised hybrid fibre-reinforced composites, project planning and implementation of process chains for the manufacture of innovative hybrid FRPs for small and large-scale production, and the development and testing of effective material-specific recycling concepts. HOFZET's modern technical equipment enables the comprehensive production of matrix- and fibre-dominant FRPs as well as the non-destructive and destructive analysis of material properties. Through close co-operation with the Institute for Bioplastics and Biocomposites IfBB at Hanover University of Applied Sciences and Arts, HOFZET offers its customers a broad spectrum of manufacturing processes and testing methods in the field of (bio)plastics technology.

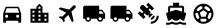
Heisterbergallee 12 30453 Hannover Lower Saxony Germany ☑ www.wki.fraunhofer.de/de/fachbereiche/hofzet/



Organisation type

Non-university research institution

Sectors





Employees

50 up to 249

Turnover

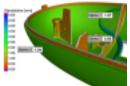
€10m - €50m

Funding



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leichtbauatlas.de Page 1 of 6

Fraunhofer Application Centre HOFZET

Main areas covered	Research and development, Fibre composites, Test laboratory, Technical (biobased) textiles, Fibre spraying
Infrastructure	Extrusion, injection moulding, Organic sheet extruder, Mechanical tests, Non-destructive testing, Optical and rheological measurements
Certifications	
Keywords	Hybrid lightweight construction, NFK, Biocomposite material
Memberships	

Overview of lightweighting expertise			
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			Manufacturing
	Research	Development	
Offer			
Products			
Products Parts and components, Semi-finished parts, Materials	✓	✓	~
Parts and components, Semi-finished parts,	✓	✓	✓

leichtbauatlas.de Page 2 of 6

Fraunhofer Application Centre HOFZET

verview of lightweighting expertise					
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	Research	Nevelopment	Manufacturing & Supply		
Field of technology					
Design & layout Lightweight manufacturing, Hybrid structures, Lightweight construction concepts	✓	~			
Functional integration Sensor technology, Material functionalisation	✓	✓			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓			
Modelling and simulation Life-cycle analysis, Optimisation, Processes, Materials	✓	✓			
Plant construction & automation					
Recycling technologies Downcycling, Material separation, Recycling	~	✓			

leichtbauatlas.de Page 3 of 6

Fraunhofer Application Centre HOFZET

Overview of lightweighting expertise						
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	Research	N Development	/lanufacturing & Supply			
Manufacturing process						
Additive manufacturing 3D printing	✓	✓				
Coating (surface engineering) Others (Wet chemical treatment)	✓	✓				
Fibre composite technology Fibre spraying, Manual lamination, Resin infusion process, Vacuum infusion	~	✓				
Forming						
Joining						
Material property alteration						
Primary forming Extrusion, Casting, Injection moulding	✓	✓	✓			
Processing and separating Milling, Sawing	✓	✓				
Textile technology Fibre manufacturing, Preforming, Weaving	✓	✓	✓			

leichtbauatlas.de Page 4 of 6

Fraunhofer Application Centre HOFZET

Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Material **Biogenic materials** Bioplastics, Biocomposites, Wood, Others (Biobased hybrid fibre composites, biocomposites) Cellular materials (foam materials) Others (Wood foam) **Composites** Glass-fiber reinforced plastics (GFRP), Carbonfiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Textile-reinforced concrete **Fibres** Aramid fibres, Glass fibres, Carbon fibres, Natural fibres Functional materials Metals **Plastics** Thermoset plastics, Thermoplastics Structural ceramics (Technical) textiles Yarns, rovings, Woven fabrics, Others (Hybrid fabric)

Contacts

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leichtbauatlas.de Page 5 of 6

Fraunhofer Application Centre HOFZET

leichtbauatlas.de Page 6 of 6