Fraunhofer Project Centre Wolfsburg

About this organisation

Machine translation

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

The "Fraunhofer Project Centre Wolfsburg", represented by the Fraunhofer Institutes IFAM, IST, IWU and WKI, is integrated into the "Open Hybrid LabFactory e.V. (OHLF)" in terms of content, structure and location. For implementation and utilisation in production and manufacturing, close cooperation between representatives from industry and research is ensured in Wolfsburg as part of the OHLF.

By adopting an interdisciplinary approach, the Fraunhofer-Gesellschaft is utilising the opportunity to develop the entire process chain for lightweight structures and test them on a large scale as part of the "Open Hybrid LabFactory e.V. (OHLF)". Sustainable process and material development is ensured by analysing the entire development chain through to the integration of recycling concepts. The "Fraunhofer Project Centre Wolfsburg" concentrates on the three main areas of "Textile production chain", "Hybridisation with metallic matrix" and "Electric vehicle components". Together with all partners, solutions are developed for the technological challenges of resource-conserving and cost-effective lightweight construction, as well as contributions to socio-ecological issues such as increasing efficiency, reducing transport-related emissions or recycling lightweight vehicle components.

Hermann-Münch-Str. 2
38440 Wolfsburg
Lower Saxony
Germany
www.hybridleichtbau.fraunhofer.de/

Fraunhofer

Organisation type
Non-university research institution

Sectors

Employees
50 up to 249

Turnover
€10m - €50m

Funding
n/a

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About this organisation

Main areas covered	Hybrid material systems, Bio-based polymers, Formaldehyde test methods, Recycling WPC and waste wood, Load-bearing behaviour and building physics
Infrastructure	
Certifications	
Keywords	Hybrid lightweight construction, Hybrid material systems
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Materials	✓	✓	
Services & consulting Consulting, Validation, Simulation, Approval	✓	✓	

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight construction concepts	✓		
Functional integration			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis	✓	✓	
Modelling and simulation Crash behaviour, Materials, Reliability validation	✓	✓	
Plant construction & automation			
Recycling technologies Material separation, Recycling	✓		
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating Drilling, Milling	✓		
Textile technology Fibre manufacturing	✓		

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites, Wood	✓		
Cellular materials (foam materials)			
Composites			
Fibres Natural fibres	✓	✓	
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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Contacts

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Management

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