

About this organisation

Machine translation

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

The Fraunhofer IWS develops complex system solutions in laser and materials technology. We at the Fraunhofer IWS see ourselves as idea drivers who develop solutions with laser applications, functionalized surfaces as well as material and process innovations - from easily integrated individual solutions to cost-efficient solutions for small and medium-sized enterprises to complete solutions suitable for industrial use.

Centre for Fibre Composite Technology at the IWS - Technologies for modern lightweight construction: Lightweight structures consisting of high-strength fibre composite materials in combination with specially designed component geometries can meet global requirements for energy-saving products. In order to reduce the costs of these structures, the Fraunhofer IWS is working in cooperation with the TU Dresden on a number of key topics in the manufacturing process chain.

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01277 Dresden
Saxony
Germany
www.iws.fraunhofer.de/de/zentren/leichtbau.html

Main areas covered Laser technologies for lightweight construction, Bonding of composite components

Infrastructure

Certifications DIN-ISO 9001

Keywords Fibre composite technology, Laser, Hybrid components

Memberships Carbon Composites e.V.

Organisation type

Non-university research institution

Sectors



No specific sector

Employees

250 up to 499

Turnover

€10m - €50m

Funding

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
<i>Services & consulting</i>			
Field of technology			
<i>Design & layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
Plant construction & automation			
Plant construction, Automation technology, Handling technology, Robotics	✓	✓	
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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