

## 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.

Winterbergstraße 28  
01277 Dresden  
Saxony  
Germany  
[www.iws.fraunhofer.de/de/zentren/leichtbau.html](http://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
<b>Offer</b>			
<i>Products</i>			
<i>Services &amp; consulting</i>			
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<b>Plant construction &amp; automation</b>			
Plant construction, Automation technology, Handling technology, Robotics	✓	✓	
<i>Recycling technologies</i>			
<b>Manufacturing process</b>			
<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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