

# Fraunhofer Institute for Material and Beam Technology IWS Dresden

## About this organisation

### Machine translation

This profile 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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Saxony

Germany

[www.iws.fraunhofer.de/de/zentren/leichtbau.html](http://www.iws.fraunhofer.de/de/zentren/leichtbau.html)

### Organisation type

Non-university research institution

### Sectors



No specific sector

### Employees

250 up to 499

### Turnover

€10m - €50m

### Funding



[Projects in the funding catalogue](#)

### 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.

## Overview of lightweighting expertise

### Machine translation

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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; factory 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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# Fraunhofer Institute for Material and Beam Technology IWS Dresden

## Contacts

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