

# Fraunhofer Project Group for Materials Recycling and Resource Strategy

## About this organisation

### Machine translation

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

The Fraunhofer Project Group for Materials Recycling and Resource Strategies IWKS was established under the umbrella of the Fraunhofer Institute for Silicate Research ISC against the backdrop of increasingly scarce raw materials. The IWKS lays the foundations for securing the supply of raw materials for our industry in the long term and thus enabling us to maintain our leading position in high technology in the future.

With an innovative 3-component RTM pilot plant, the IWKS can produce structured fibre composite components up to a size of 1.9 x 1.5 m<sup>2</sup>. Polyurethane (PUR) is used as the matrix system, which enables low process temperatures, high component qualities and bionic surfaces. In order to produce highly rigid sandwich structures, the system can also be used to produce and process PUR rigid foam cores.

Rodenbacher Chaussee 4  
63457 Hanau  
Hesse  
Germany  
[www.iwks.fraunhofer.de/](http://www.iwks.fraunhofer.de/)



### Organisation type

Non-university research institution

### Sectors



### Employees

50 up to 249

### Turnover

n/a

### Funding

n/a



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## About this organisation

<b>Main areas covered</b>	Structured fibre composite components, Bionic surfaces
<b>Infrastructure</b>	3K-PUR-RTM system
<b>Certifications</b>	
<b>Keywords</b>	PUR, Lightweight structure, RTM, Sandwich construction, Fibre composite processing
<b>Memberships</b>	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
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### Offer

*Products*

*Services & consulting*

### Field of technology

*Design & layout*

*Functional integration*

*Measuring and testing technology*

*Modelling and simulation*

*Plant construction & factory automation*

*Recycling technologies*

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## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
<b>Material</b>			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
<b>Functional materials</b>			
Others: null	✓	✓	
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

# Fraunhofer Project Group for Materials Recycling and Resource Strategy

## Contacts

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

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