

About this organisation

Machine translation

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

We are at your side as a competent partner if you want to expand your product portfolio with new composite components or replace conventional components with new lightweight structures in order to increase the performance of your applications. We offer you customised FRP solutions for all industries: from the initial idea to technology development and support for series production.

- Development, production and distribution of load-bearing semi-finished products
- Characterisation of the complex material behaviour of lightweight materials and derivation of material cards
- Development and application of new calculation methods for the optimal design of fibre-reinforced plastic components
- Holistic view of component production: from development and design to the process chain, component testing, prototypes and pre-series products

Mauersbergerstr. 14  
09117 Chemnitz  
Saxony  
Germany  
[thermopre-engineering.de](https://thermopre-engineering.de)

**Main areas covered** Load-compliant semi-finished products, Material cards, Dimensioning, Components

Infrastructure

**Certifications** ISO 9001

**Keywords** FKV, FEM, Technical textiles

Memberships



**Organisation type**  
Small or medium-sized enterprise

**Sectors**  
A row of six black icons: a car, an airplane, a building, a plus sign, a train, and a soccer ball.

**Employees**  
10 up to 49

**Turnover**  
n/a

**Funding**

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Semi-finished parts, Machines and plants, Materials	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Engineering, Validation, Simulation, Technology transfer	✓	✓	✓
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
<b>Functional integration</b> Actuator technology, Sensor technology, Material functionalisation	✓	✓	
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
<b>Forming</b>			
Impact extrusion, Compression moulding, Thermal converting, Deep-drawing	✓	✓	
Joining			
Material property alteration			
<b>Primary forming</b>			
Extrusion, Injection moulding	✓	✓	✓
Processing and separating			
Textile technology			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<b>Composites</b>			
Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	✓
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<b>Plastics</b>			
Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
<b>(Technical) textiles</b>			
Others (HyRov - Hybrid rovings)	✓	✓	✓

## Contacts

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Contacts

Mr Sebastian Iwan

*Managing Director*

[info@thermopre-gmbh.de](mailto:info@thermopre-gmbh.de)