

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

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

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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

Contacts

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Contacts

Mr Sebastian Iwan

Managing Director

info@thermopre-gmbh.de