

# Hörmann Vehicle Engineering GmbH

## About this organisation

### Machine translation

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

At HÖRMANN Vehicle Engineering, we accompany our customers through the entire development process chain for rail, road and special vehicles. As a globally active engineering partner, we offer reliable complete vehicle expertise from the initial idea to the finished prototype and series production run. The HÖRMANN Group has more than 200 qualified employees working in vehicle engineering - most of them engineers.

To increase the comfort and efficiency of modern vehicles, the number and weight of additional components (e.g. supercap, traction components) is increasing. In order to compensate for this, we provide load-optimised designs, e.g. of car bodies, by significantly reducing the mass of the structure, wall thickness and dimensions, use new materials in our developments and rely on innovative production technologies. Simulation-based optimisation ensures function and product quality while simultaneously reducing costs and materials. For example, topology and sheet thicknesses can be optimised in critical corners of windows and doors. By using hybrid construction methods of metal-fibre composite patches, we generate extremely lightweight and highly durable structures.

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Saxony  
Germany  
[www.hoermann-engineering.de](http://www.hoermann-engineering.de)



### Organisation type

Small or medium-sized enterprise

### Sectors



### Employees

50 up to 249

### Turnover

€10m - €50m

### Funding



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## About this organisation

<b>Main areas covered</b>	Structurally optimised lightweight construction, New materials, Simulation-based optimisation
<b>Infrastructure</b>	IVENTOR, CATIA and more., AUCOTEC, ePLAN and more., Selectron, UniControls and more., MSCNastran, Altair and more.
<b>Certifications</b>	DIN ISO 9001, DIN 3834-2, DIN 6701, and more.
<b>Keywords</b>	Rail vehicle, Tramway, Bogie
<b>Memberships</b>	thermoPre e.V., VDB e.V., BTS Rail Saxony, HZwo e.V.

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<i>Products</i>			
<b>Services &amp; consulting</b> Consulting, Engineering, HR services, Prototyping, Simulation, Approval	✓	✓	✓

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## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Hybrid structures, Lightweight construction concepts	✓	✓	✓
<b>Functional integration</b> Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
<b>Measuring and testing technology</b> Component and part analysis, System analysis	✓	✓	✓
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	✓
<i>Plant construction &amp; automation</i>			
<b>Recycling technologies</b> Recycling		✓	✓

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Research    Development    **Manufacturing & Supply**

#### Manufacturing process

*Additive manufacturing*

*Coating (surface engineering)*

*Fibre composite technology*

*Forming*

*Joining*

*Material property alteration*

*Primary forming*

*Processing and separating*

*Textile technology*

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<b>Biogenic materials</b> Biocomposites	✓	✓	✓
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Metal matrix composite, Natural fibre reinforced plastics (NFRP)	✓	✓	✓
<b>Fibres</b> Aramid fibres, Basalt fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<b>Metals</b> Aluminium, Magnesium, Steel	✓	✓	✓
<b>Plastics</b> Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	

## Contacts

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## Contacts

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