

## About this organisation

### Machine translation

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

Lightbau Engineering is an independent engineering office in the field of additive engineering that develops application-optimised and individual lightweight construction solutions across all industries. The team supports its customers with a wealth of expertise and provides comprehensive services - from simulation-based development, component optimisation and production-ready CAD design to simulation, consulting and production.

The company has set itself the task of utilising the advantages of additive manufacturing for its customers. Lightbau Engineering combines numerical optimisation tools with the innovative power of nature, exploits the newly gained design freedom and develops innovative and highly efficient lightweight construction solutions for a sustainable form of added value - in the shortest possible time and with outstanding mechanical properties. The digital process chain can always be adapted to the customer's requirements and optimisation goals and enables individual lightweight solutions to be implemented in real time while significantly reducing time-to-market. Coupled with the intelligent performance optimisation of the individual components, this represents an enormous competitive advantage.



### Organisation type

Small or medium-sized enterprise

### Sectors

No specific sector

### Employees

Up to 9

### Turnover

Up to €2m

### Funding

n/a

Austr. 17  
71069 Sindelfingen  
Baden-Württemberg  
Germany  
[www.lightbau.de](http://www.lightbau.de)



# Lightbau Engineering GmbH & Co. KG

## About this organisation

### Main areas covered

Additive engineering

### Infrastructure

### Certifications

### Keywords

Additive manufacturing, 3D printing, Bionics, Construction, Simulation

### Memberships

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Tools and moulds, Others (Individual components)		✓	✓
<b>Services &amp; consulting</b> Consulting, Engineering, Prototyping, Simulation		✓	✓

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts		✓	✓
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology			✓
<i>Measuring and testing technology</i>			
<b>Modelling and simulation</b> Loads & stress, Optimisation, Structural mechanics, Others (Modal analysis)			✓
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<b>Additive manufacturing</b> 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)			✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
<b>Processing and separating</b> Milling			✓
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>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
<b>Metals</b> Aluminium, Steel, Titanium, Others (Stainless steel, Inconel)			✓
<b>Plastics</b> Thermoplastics			✓
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

## Contacts

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Contacts

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