

About this organisation

Machine translation

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

GKN Additive is a production service provider for the manufacture of metallic solutions using additive manufacturing. GKN Additive is part of the GKN Powder Metallurgy Group and benefits from this global network of production sites of the world market leader in the powder metallurgical production of precision components. In Germany, there are 2 sites in Bonn (laser melting technology) and Bad Langensalza (binder jetting technology).

From the design phase to the production of lightweight components GKN Additive is a service provider for the realisation of customer projects. Simulation tools and topology optimisation are used in the design phase. The components are manufactured at 2 German sites using additive manufacturing technologies such as laser melting and binder jetting. Material- and product-specific heat treatment and mechanical post-processing of functional surfaces are also part of the offering in order to develop ready-to-use components and produce them in series.

Pennefeldsweg 11-15
53177 Bonn
North Rhine-Westphalia
Germany

www.gknpm.com/en/our-businesses/gkn-additive/

Main areas covered	Additive manufacturing of lightweight components, Topology optimisation, Lightweight components automotive industry, Finite element simulation, Design of components
Infrastructure	Metal additive manufacturing, Lightweight materials (powder), Simulation, Topology optimisation, Metallographic laboratory
Certifications	IATF 16949, ISO 9001
Keywords	Additive manufacturing, Additive manufacturing, Binder Jetting, Aluminium, Titanium
Memberships	



Organisation type
Large enterprises

Sectors


Employees
500 and more

Turnover
More than €50m

Funding
n/a

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials, Tools and moulds		✓	✓
Services & consulting Testing and trials, Engineering, Prototyping, Simulation		✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Hybrid structures		✓	✓
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis			✓
Modelling and simulation Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		✓	✓
Plant construction & automation Automation technology			✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Others (Metal Binder Jetting)		✓	✓
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Sawing, Grinding			✓
<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>			
<i>Composites</i>			
<i>Fibres</i>			
<i>Functional materials</i>			
Metals		✓	✓
Aluminium, Steel, Titanium			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

Mr Dr. Simon Höges
Director Technology & Operations

simon.hoeges@gknpm.com