

# CIKONI composites innovation

## About this organisation

### Machine translation

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

CIKONI is a specialist engineering company for innovative lightweight construction and fibre composite solutions based in Stuttgart. We develop lightweight products made of fibre-reinforced high-performance composites (e.g. CFRP, GFRP, AFRP) or in hybrid construction for our customers. We use state-of-the-art design tools, pioneering simulation methods and fibre-compatible FEM calculations to detail and validate your structural components.

CIKONI composites innovation - this means holistic, knowledge-based engineering services along the entire process chain and includes the development of application-oriented manufacturing processes and special machines, for example for cost-effective, forming preform production in medium quantities or 3D fibre winding. - Research and development for composite materials - Composite-optimised component and product development with carbon, natural fibres and co. with CAD - Structural design, strength calculation and numerical optimisation with FEM - Process development for automated preforming and 3D fibre winding - Holistic quality management for composites: Optical fibre measurement technology and automation solutions - Strategy and technology consulting for innovative lightweight construction - Method development and material card creation for fibre composite simulation - Bionic engineering for additive manufacturing (3D printing)

Nobelstraße 15  
70569 Stuttgart  
Baden-Württemberg  
Germany  
[www.cikoni.com](http://www.cikoni.com)



### Organisation type

Small or medium-sized enterprise

### Sectors



### Employees

Up to 9

### Turnover

n/a

### Funding

n/a



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About this organisation	
<b>Main areas covered</b>	Engineering, Counselling, Draping simulation, FEM calculation, Special machine construction
<b>Infrastructure</b>	
<b>Certifications</b>	
<b>Keywords</b>	Forming technology, Engineering services, 3D wrapping, Simulation, Counselling
<b>Memberships</b>	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Machines and plants, Software & databases, Systems and end products, Tools and moulds	✓	✓	✓
<b>Services &amp; consulting</b> Training, Consulting, Distribution, Testing and trials, Engineering, HR services, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓

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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, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction, Others (Additive manufacturing, 3D printing)	✓	✓	✓
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
<b>Measuring and testing technology</b> Component and part analysis, System analysis, Materials analysis, Destructive analysis, Non-destructive analysis, Others (Shear characterisation, material characterisation for drapability)	✓	✓	✓
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials	✓	✓	✓
<b>Plant construction &amp; automation</b> Plant construction, Automation technology, Handling technology, Robotics, Others (Optical measurement technology)	✓	✓	✓

*Recycling technologies*

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Overview of lightweighting expertise			
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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> 3D printing, Selective laser sintering (SLS), Stereolithography	✓	✓	✓
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b> Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (RTM; Preforming)	✓	✓	✓
<b>Forming</b> Others (Preforming)	✓	✓	✓
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<b>Textile technology</b> Preforming	✓	✓	✓

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	
<i>Fibres</i>			
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

## Contacts

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## Contacts

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