

# 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

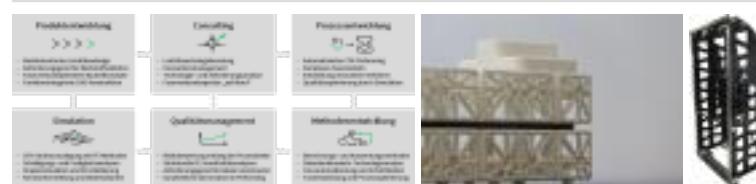
Up to 9

#### Turnover

n/a

#### Funding

n/a



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## About this organisation

**Main areas covered** Engineering, Counselling, Draping simulation, FEM calculation, Special machine construction

### Infrastructure

### Certifications

**Keywords** Forming technology, Engineering services, 3D wrapping, Simulation, Counselling

### Memberships

## Overview of lightweighting expertise

### Machine translation

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Manufacturing  
Research   Development   & Supply

### Offer

#### Products

Parts and components, Machines and plants, Software & databases, Systems and end products, Tools and moulds



#### Services & consulting

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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| Field of technology   | Research | Development | Manufacturing & Supply |
|---|----------|-------------|------------------------|
| <b>Design &amp; layout</b><br>Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction, Others (Additive manufacturing, 3D printing)                      | ✓        | ✓           | ✓                      |
| <b>Functional integration</b><br>Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation   | ✓        | ✓           | ✓                      |
| <b>Measuring and testing technology</b><br>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><br>Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Processes, Structural mechanics, Materials   | ✓        | ✓           | ✓                      |
| <b>Plant construction &amp; automation</b><br>Plant construction, Automation technology, Handling technology, Robotics, Others (Optical measurement technology)   | ✓        | ✓           | ✓                      |
| <i>Recycling technologies</i>   |          |             |                        |

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Manufacturing  
Research   Development   & Supply

#### Manufacturing process

##### Additive manufacturing

3D printing, Selective laser sintering (SLS),  
Stereolithography

✓      ✓      ✓

##### Coating (surface engineering)

##### Fibre composite technology

Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (RTM; Preforming)

✓      ✓      ✓

##### Forming

Others (Preforming)

✓      ✓      ✓

##### Joining

##### Material property alteration

##### Primary forming

##### Processing and separating

##### Textile technology

Preforming

✓      ✓      ✓

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#### Material

*Biogenic materials*

*Cellular materials (foam materials)*

#### Composites

Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates



*Fibres*

*Functional materials*

*Metals*

*Plastics*

*Structural ceramics*

*(Technical) textiles*

## Contacts

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## Contacts

Mr Dr.-Ing. Farbod Nezami

[nezami@cikoni.com](mailto:nezami@cikoni.com)