

## About this organisation

### Machine translation

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

Internationally active engineering office for lightweight construction and fibre composite applications with the following focal points: 1. engineering services (concepts, constructions, structural design/FEM) 2. prototypes and small series (components) 3. prototype production facilities and component-orientated manufacturing processes The core industries of IDVA GmbH are - Mechanical engineering - Automotive and commercial vehicle construction - Aerospace - Architecture and construction

Thanks to our interdisciplinary approach and our many years of experience in the field of fibre composites, we can offer you all services from feasibility studies to production. Thanks to our long-standing relationships with partner companies, we cover the complete range of the following areas of expertise: - Concepts - design - structural analysis - production - moulds - Qualification - Consultancy

Wilhelmstr. 38  
79098 Freiburg  
Baden-Württemberg  
Germany  
[www.idva.de](http://www.idva.de)



### Organisation type

Small or medium-sized enterprise

### Sectors



### Employees

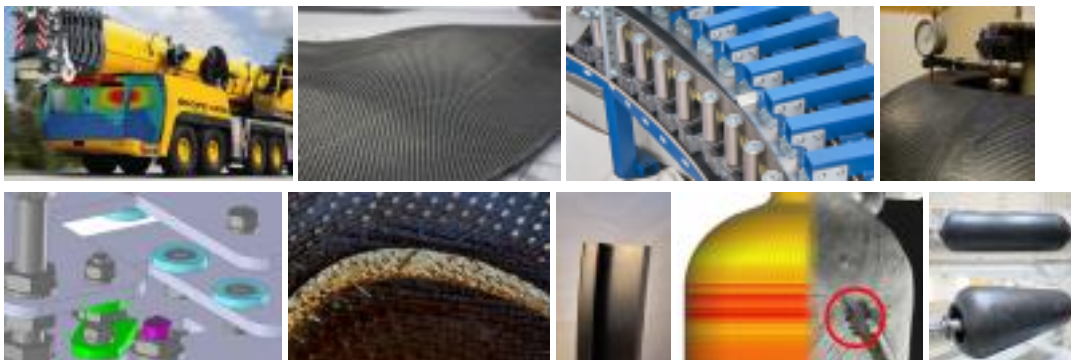
Up to 9

### Turnover

n/a

### Funding

n/a



## About this organisation

<b>Main areas covered</b>	Structural analysis/FEM, Production development, Prototype production systems, Jigs and tools for CFRP components, Simulation & Numerical Optimisation
<b>Infrastructure</b>	FEM Workstations, CAD workstations, Fibre composite technical centre, Additive manufacturing
<b>Certifications</b>	
<b>Keywords</b>	FEM, Optimisation, Prototypes, Fibre composite, CFRP
<b>Memberships</b>	Composites United e. V., Lightweight Construction Centre Baden-Württemberg

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Machines and plants, Tools and moulds	✓	✓	✓
<b>Services &amp; consulting</b> Consulting, Testing and trials, Engineering, HR services, Prototyping, Validation, Simulation, Approval	✓	✓	✓

## 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	✓	✓	✓
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis		✓	✓
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Others (Topology optimisation)	✓	✓	✓
<b>Plant construction &amp; automation</b> Plant construction, Automation technology, Handling technology	✓	✓	
<i>Recycling technologies</i>			

## 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)			✓
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b> Fibre spraying, Filament winding, Casting (concrete), Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Spinning (concrete), Spraying (concrete), Vacuum infusion	✓	✓	✓
<i>Forming</i>			
<b>Joining</b> Adhesive bonding		✓	✓
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<b>Textile technology</b> Preforming	✓	✓	

## Overview of lightweighting expertise

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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> Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	✓
<b>Fibres</b> Aramid fibres, Glass fibres, Carbon fibres, Natural fibres		✓	✓
<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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