

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



Organisation type

Small or medium-sized enterprise

Sectors



Employees

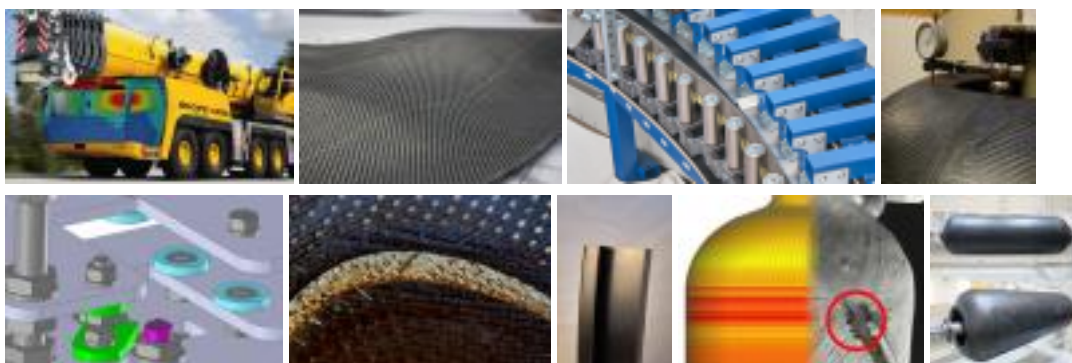
Up to 9

Turnover

n/a

Funding

n/a



About this organisation

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

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis		✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Others (Topology optimisation)	✓	✓	✓
Plant construction & automation Plant construction, Automation technology, Handling 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 sintering (SLS)			✓
<i>Coating (surface engineering)</i>			
Fibre composite technology 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>			
Joining Adhesive bonding		✓	✓
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Preforming	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites		✓	✓
<i>Cellular materials (foam materials)</i>			
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 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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