

FkL Engineering office Schumacher

About this organisation

Machine translation

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

FkL Ingenieurbüro Schumacher is a young, innovative company. We are independent of large corporations and can therefore act quickly and flexibly. As specialists in fibre composites, we offer various services tailored to your needs.

The main competence lies in the FEM calculation of fibre composite components. We also offer - Support in the preparation of the specifications - Selection of suitable materials and manufacturing processes - Material-appropriate geometry development - Determination of material characteristics - Draping simulation with derivation of the blanks - Precise FEM calculation of fibre composite components with Ansys ACP - Optimisation of the laminate in terms of effort (fibre and inter-fibre breakage), stiffness, weight, costs, etc. - FEM strength verification according to VDI 2262 - Stiffness and natural frequency analyses - Workshops on the topic of "Calculation and simulation of FRP"

Egerländer Str. 6
64331 Weiterstadt
Hesse
Germany
www.fkl-ing.de



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

Up to 9

Turnover

Up to €2m

Funding

n/a



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About this organisation

Main areas covered FEM calculation, Advice on all aspects of FKV components

Infrastructure Ansys ACP

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
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Offer

Products

Services & consulting

Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation



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	✓	✓	
<i>Functional integration</i>			
<i>Measuring and testing technology</i>			
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Reliability validation		✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<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>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Closed-pore	✓	✓	
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Natural fibre reinforced plastics (NFRP)	✓	✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts	
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