

About this organisation

Machine translation

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

fka - creating ideas and driving innovations Our vision: We design safe and sustainable mobility that inspires people. With technological vision and interdisciplinary expertise, we face the social challenges of future mobility and offer creative ideas and well-founded solutions - from conception, simulation and design to prototype construction and testing.

Our mission: fka has been an innovative development service provider for the automotive and supplier industry for more than 35 years. fka understands the vehicle as a physical, energetic and informational overall system and develops specialised and interdisciplinary mobility solutions. In the area of conflict between efficiency, safety and driving experience, lightweight construction is a key technology for the development of optimised vehicle structures. In addition to weight reduction, the ecological and economic evaluation of new concepts over the entire life cycle are key drivers. The range of services includes material characterisation, the qualification of suitable simulation methods, numerical optimisation and CAD design. Test benches for quasi-static, vibration and acoustic analyses, vehicle crash facilities and drop tower test benches are also available for material qualification and component validation.

Steinbachstr. 7
52074 Aachen
North Rhine-Westphalia
Germany
www.fka.de



Organisation type

Non-university research institution

Sectors



Employees

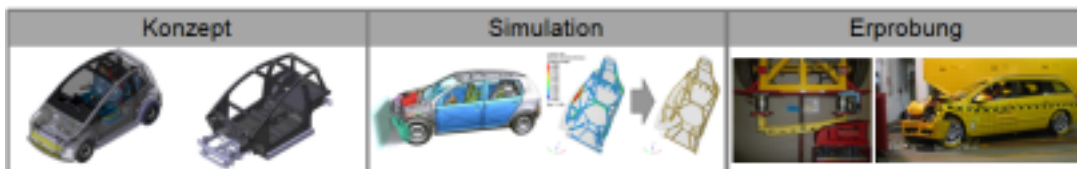
50 up to 249

Turnover

€10m - €50m

Funding

n/a



About this organisation

Main areas covered	Conception and construction, Calculation and testing, Passive security, Life cycle analysis (LCA), Benchmarking
Infrastructure	Servo-hydraulic test centre, Crash system, Drop tower test rig, Benchmarking centre, CAE tools
Certifications	DIN EN ISO 9001:2008
Keywords	Multi-material construction methods, Vehicle concepts & benchmarking, Crash simulation and testing, Battery box, Life cycle analysis (LCA)
Memberships	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
<i>Products</i>			
Services & consulting Training, Consulting, Testing and trials, Engineering, Validation, Simulation	✓	✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis, System analysis, Destructive analysis	✓	✓	
Modelling and simulation Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials	✓	✓	
<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

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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