About this organisation

Machine translation

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

As part of RWTH Aachen University, the Institute of Automotive Engineering (ika) researches the entire vehicle, including its systems and their interactions. From the initial idea through innovative component and system concepts to vehicle prototypes, we are shaping the vehicle of the future. To this end, we work in public and bilateral projects with and for automotive manufacturers and suppliers.

As part of national and international research projects, ika is pursuing approaches to develop solutions to these challenges both at the conceptual level and to research the necessary methods. The ika has access to an extensive infrastructure, from high-performance simulation capacities for the virtual design and validation of vehicle structures to a variety of test benches and test tracks for the validation and evaluation of concepts. In addition, the ika has interdisciplinary links with colleagues in materials science and production engineering.

Steinbachstr. 7 52074 Aachen North Rhine-Westphalia Germany

☑ www.ika.rwth-aachen.de



Organisation type

University or higher education institution

Sectors



Employees

50 up to 249

Turnover

n/a

Funding



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About this organisation				
Main areas covered	Conception and construction, Calculation and testing, Passive security, Life cycle analysis (LCA), Benchmarking			
Infrastructure	Servohydraulic test centre, Crash system, Drop tower test rig, Benchmarking centre, CAE tools			
Certifications				
Keywords	Multi-material construction methods, Vehicle concepts & benchmarking, Crasimulation and testing, Battery box, Life cycle analysis (LCA)			
Memberships	AZL GmbH, Centre for Metallic Structures e.V., AMAP GmbH, ACAM GmbH, EARPA			

Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Offer Products Services & consulting Training, Consulting, Testing and trials, Engineering, Validation, Simulation

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Machine translation				
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	Research	Development	Manufacturin : & Supply	
Field of technology				
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓		
Functional integration				
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	~	✓		
Plant construction & automation				
Recycling technologies				
Manufacturing process				
Additive manufacturing				
Coating (surface engineering)				
Fibre composite technology				
Forming				
Joining				
Material property alteration				
Primary forming				
Processing and separating				

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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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