RWTH Aachen

Institute of Structural Mechanics and Lightweight Construction

About this organisation

Machine translation

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

Research institute

- Design, sizing and optimisation and lightweight structures - Static and dynamic testing of lightweight parts of automotive, aerospace, and space applications - Development of sizing methods and tools

Wüllnerstr. 7
52062 Aachen
North Rhine-Westphalia
Germany
www.sla.rwth-aachen.de

Organisation type
University or higher education institution

Sectors

Employees
10 up to 49

Turnover
n/a

Funding

Main areas covered	Research and development, Consulting, Testing, Stress analysis, Structural Health Monitoring (SHM)
Infrastructure	Structural test lab, Thermal Vacuum Chamber, FEM software
Certifications	
Keywords	Structural optimisation, Mechanics, Stress analysis, Sizing methods and tools, Structural Health Monitoring (SHM)
Memberships	iasb

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Overview of lightweighting expertise

Machine translation

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Consulting, Testing and trials, Engineering, Simulation	✓	✓	
Field of technology			
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts	✓	✓	
Functional integration			
Measuring and testing technology Component and part analysis, Destructive analysis	✓	✓	
Modelling and simulation Crash behaviour, Loads & stress, Multiphysics simulation, Optimisation, Structural mechanics	✓	✓	
Plant construction & automation			
Recycling technologies			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

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Contacts

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