

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

Overview of lightweighting expertise

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

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

Contacts

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Head of Institute

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