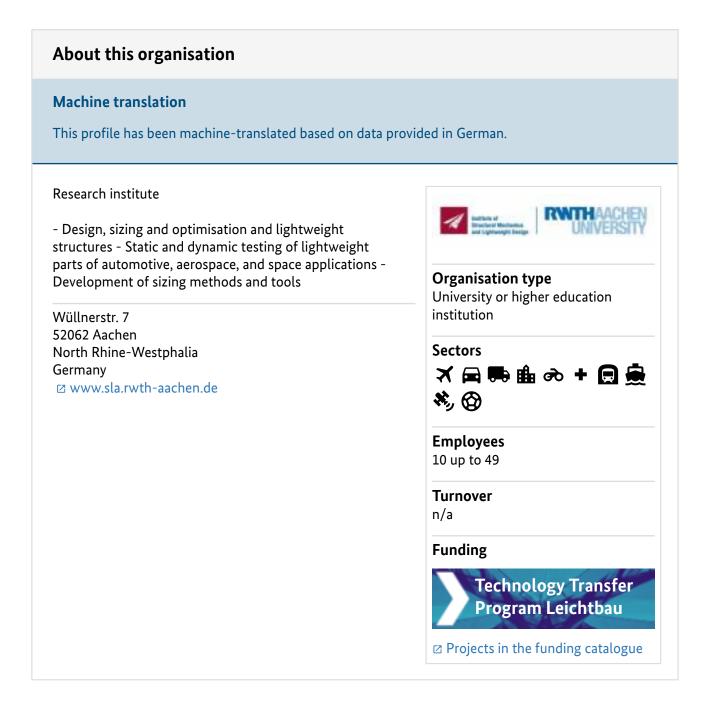
RWTH Aachen Institute of Structural Mechanics and Lightweight Construction



RWTH Aachen Institute of Structural Mechanics and Lightweight Construction

About this organisation

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

Machine translation

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

	Research	N Development	Aanufacturing & Supply
Offer			
Products			
Services & consulting Consulting, Testing and trials, Engineering, Simulation	\checkmark	\checkmark	

RWTH Aachen

Institute of Structural Mechanics and Lightweight Construction

fachine translation his profile has been machine-translated based on data provided in German.				
	Research	N Development	Aanufacturii & Supply	
Field of technology				
Design & layout Lightweight design, Hybrid structures, Lightweight construction concepts	\checkmark	\checkmark		
Functional integration				
Measuring and testing technology Component and part analysis, Destructive analysis	\checkmark	\checkmark		
Modelling and simulation Crash behaviour, Loads & stress, Multiphysics simulation, Optimisation, Structural mechanics	\checkmark	\checkmark		
Plant construction & factory automation				
Recycling technologies				
Manufacturing process				
Additive manufacturing				
Coating (surface engineering)				
Fibre composite technology				
Forming				
Joining				
Material property alteration				
Primary forming				
Processing and separating				

RWTH Aachen

Institute of Structural Mechanics and Lightweight Construction

Overview of lightweighting expertise							
Machine translation							
This profile has been machine-translated based on data provided in German.							
	Research	N Development	Manufacturing & Supply				
Material							
Biogenic materials							
Cellular materials (foam materials)							
Composites							
Fibres							
Functional materials							
Metals							
Plastics							
Structural ceramics							
(Technical) textiles							

Contacts

Machine translation

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

Mr Univ.-Prof. Dr.-Ing. Kai-Uwe Schröder

Head of Institute

kai-uwe.schroeder@sla.rwth-aachen.de