About this organisation

Machine translation

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

The aim of the Aachen Centre for Integrative Lightweight Construction (AZL) is to transfer lightweight construction to mass production through close interdisciplinary cooperation between materials science and production engineering. To this end, the AZL works together with established lightweight construction institutes at RWTH Aachen University. Together with AZL Aachen GmbH, AZL realises joint R&D initiatives in its industrial network of more than 80 companies.

AZL's research topics focus on the implementation of integrated process chains for the large-scale production of lightweight components and the development and production of load and cost-optimised multi-material systems. In this context, the following are considered: - Process chain development and testing - Handling and automation technology - Tool and mould making - Process and joining technologies for multi-material systems - Continuous quality and process data chains

Organisation type
University or higher education institution

SectorsNo specific sector

Employees 10 up to 49

Turnover n/a

Funding

Campus Boulevard 30 52074 Aachen North Rhine-Westphalia Germany

☑ www.azl.rwth-aachen.de/

Main areas covered

Process chain development/testing, Handling and automation, Tool and mould making, Multi-material systems, Consistent process chains

Infrastructure

Certifications

KeywordsAutomation technology, Hybrid components/multi-material system, Material

qualification, Process evaluation & optimisation

Memberships

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	Research	I Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Software & databases, Systems and end products, Materials, Tools and moulds	✓	✓	
Services & consulting Training, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology			
Modelling and simulation			
Plant construction & automation			

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing Research **Development** & 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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