

About this organisation

Machine translation

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

Aalen University - Centre for Virtual Product Development

Lightweight construction for mechanical and plant engineering, medical technology, automotive engineering, mobility

Beethovenstr. 1
73430 Aalen
Baden-Württemberg
Germany
www.hs-aalen.de



Organisation type

University or higher education institution

Sectors

No specific sector

Employees

Up to 9

Turnover

n/a

Funding

n/a

Main areas covered

Lightweight construction in metal, Metallic composites

Infrastructure

3D metal printing, Powder bed based LBM

Certifications

Keywords

Memberships

Overview of lightweighting expertise

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	Research	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, Consulting, Testing and trials, Engineering, Prototyping, Simulation	✓	✓	
Field of technology			
Design & layout Lightweight design, Hybrid structures	✓	✓	
Functional integration Media conductivity, Sensor technology, Thermal activation	✓	✓	
<i>Measuring and testing technology</i>			
Modelling and simulation Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	
<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 3D printing, Selective laser melting (SLM, LPBF, ...)	✓	✓	
<i>Coating (surface engineering)</i>			
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
Cellular materials (foam materials) Closed-pore, Open-pore, Syntactic foams	✓	✓	
Composites Metal-ceramic composite, Metal matrix composite	✓	✓	
<i>Fibres</i>			
Functional materials Electrostrictive / magnetostrictive materials, Shape memory materials	✓	✓	
Metals Aluminium, Steel, Titanium	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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