

Advanced Mechanical Engineering GmbH

About this organisation

Machine translation

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

AME GmbH sees itself as a service provider for structural optimisation, FEM simulation and design tasks. The focus is on mechanically justifiable lightweight structures, combined with many years of experience in the field of additive manufacturing processes. We pass on our knowledge to interested customers in training concepts tailored to their individual needs.

Our systematic, mechanically based approach enables us to meet the increasing demands placed on components and structures in industrial applications. We use our knowledge in the field of technical mechanics and lightweight construction, applying numerical methods for efficient structural optimisation. Where necessary, we use additive manufacturing processes in a targeted manner to produce potentially complex and mechanically optimised structures. We want to make a contribution to sustainability by driving forward resource-efficient developments. At the same time, the aim is to maintain or even improve the performance of the components.

Carlo-Schmid-Allee 3
44263 Dortmund
North Rhine-Westphalia
Germany

www.a-m-e.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

Up to 9

Turnover

n/a

Funding

n/a



Advanced Mechanical Engineering GmbH

About this organisation

Main areas covered Structural optimisation, Additive manufacturing

Infrastructure

Certifications

Keywords FEM simulation, Customised training offer

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components		✓	
Services & consulting Training, Consulting, Engineering, Prototyping, Simulation, Technology transfer		✓	

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight construction concepts		✓	
<i>Functional integration</i>			
Measuring and testing technology Component and part analysis		✓	
Modelling and simulation Loads & stress, Optimisation, Structural mechanics, Materials, Reliability validation		✓	
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			
Manufacturing process			
<i>Additive manufacturing</i>			
<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			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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