

FOSTA - Research Association for Steel Application e. V.

About this organisation

Machine translation

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

Network partner for the promotion and project planning of joint steel application research. Financed by the steel industry and supported by the steel application industry and research institutes. Project objectives: Improving and securing competitiveness Optimisation of processing techniques Development of new areas of application Substitution of competing materials Solutions with hybrid materials

FOSTA's research focuses on lightweight steel construction:
- Material behaviour - Machining and processing - construction - simulation - sustainability - Standardisation
FOSTA - Forschungsvereinigung Stahlanwendung e. V. is a member of the AiF Research Alliance for Lightweight Construction.

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Germany
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Organisation type

Association, Chamber of industry and commerce

Sectors



Employees

Up to 9

Turnover

n/a

Funding

n/a



Main areas covered

Research funding (IGF), Community research, Steel application, Industrial joint research, Pre-competitive

Infrastructure

Certifications

Keywords

Memberships

AiF e.V., Lightweight Construction Research Alliance (FAL)

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products			
Others (Research results from joint projects)	✓		
<i>Services & consulting</i>			
Field of technology			
Design & layout			
Lightweight manufacturing, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓		
Functional integration			
Material functionalisation	✓		
<i>Measuring and testing technology</i>			
Modelling and simulation			
Crash behaviour, Loads & stress, Life-cycle analysis, Optimisation, Processes, Materials	✓		
<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 Deposition welding	✓		
Coating (surface engineering) Powder coating, Hot dipping	✓		
<i>Fibre composite technology</i>			
Forming Bending, Impact extrusion, Compression moulding, Forging, Stretch forming, Thermal converting, Deep-drawing, Fluid active media based forming, Rolling	✓		
Joining Clinching, Hybrid joining, Adhesive bonding, Soldering, Riveting, Screwing, Welding	✓		
Material property alteration Thermomechanical treatment, Heat treatment	✓		
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Grinding	✓		
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites			
Others (Steel-concrete composite)	✓		
<i>Fibres</i>			
<i>Functional materials</i>			
Metals			
Steel	✓	✓	
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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Contacts

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