

European Research Foundation Magnesium e.V.

About this organisation

Machine translation

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

The aim of EFM e.V. is to promote science and research into the material "magnesium", and the corresponding transfer of knowledge. This is intended to establish "magnesium" as one of the modern lightweight construction materials and thus make it accessible to a wider range of applications.

The EFM e.V. focusses on - Research / Development
Magnesium - Knowledge transfer - Component development - Surface protection / Joints

Gartenstrasse 131
73430 Aalen
Baden-Württemberg
Germany
www.efm-aalen.de



Organisation type

Association, Chamber of industry and commerce

Sectors



Employees

Up to 9

Turnover

n/a

Funding

n/a

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About this organisation

Main areas covered Research / Development Magnesium, Knowledge transfer magnesium, Component development, Surface protection / joints

Infrastructure

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	✓	✓	✓
<i>Services & consulting</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Multiphysics simulation, Processes, Structural mechanics, Materials	✓	✓	✓
Plant construction & factory automation Plant construction	✓	✓	✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Painting, Powder coating	✓	✓	✓
<i>Fibre composite technology</i>			
Forming Bending, Impact extrusion, Compression moulding, Forging, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Rolling	✓	✓	✓
Joining Clinching, Hybrid joining, Adhesive bonding, Riveting, Screwing, Welding	✓	✓	✓
<i>Material property alteration</i>			
Primary forming Extrusion, Casting, Pultrusion	✓	✓	✓
<i>Processing and separating</i>			
<i>Textile technology</i>			

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Overview of lightweighting expertise

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

Contacts

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