

IMA Materials Research and Application Technology GmbH

About this organisation

Machine translation

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

IMA Materialforschung und Anwendungstechnik GmbH (IMA Dresden) is an accredited, internationally active company for engineering and consultancy services relating to the qualification, validation and monitoring of materials, components and products. Located between research and industry, we support you throughout the entire development process of a product with comprehensive engineering expertise.

Lightweight construction: Material application and technology consulting, material characterisation for all materials (static, cyclic, dynamic, physical, ageing, etc.), technology development, product development, design of composite materials, load analyses & verification concepts, component calculation, prototype construction, damage cases, etc. Plastics & composites: Laminate production (all relevant production technologies, e.g. RTM, VAP), sample production, accredited standard-flexible tests (DIN, ISO, ASTM etc.), e.g. DSC, DMA analysis, tensile, compression, shear, bending tests, ILSS, G1C, determination of fatigue properties (fatigue) e.g. with UDFA, strain measurement, large forces up to 4MN, investigation into resistance to aggressive media (coolant, fuels) and/or temperatures etc. Metals: Impact and crash tests; fracture mechanics; fatigue testing (HCF, LCF); static tests (tension, compression, bending); notched bar impact bending, screw, corrosion, hardness testing, metallography, etc

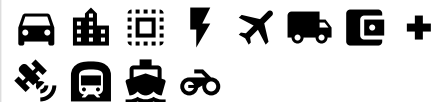
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Germany
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Organisation type

Small or medium-sized enterprise

Sectors



Employees

50 up to 249

Turnover

€10m - €50m

Funding



[Projects in the funding catalogue](#)

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Main areas covered	Laminate and sample production, Materials testing, Component Development, Structural and component tests, Damage analysis
Infrastructure	Analysis technique: DMA, DSC, Dilatomet, Mechanical testing machines 100N to, Servohyd. testing machines 0.5kN to, Climate & temp. chambers -70° to 300°, Standard & special testing machines
Certifications	ISO 9100, DIN 14001, ISO 17025, NADCAP
Keywords	Energy release rate G1C test, Corrosion test K1SCC, Fatigue HCF, VHCF, LCF, TMF
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, Others: null	✓	✓	
Services & consulting Training, Consulting, Testing and trials, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer, Approval, Others: null	✓	✓	

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 Media conductivity, Sensor technology	✓	✓	
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	
Modelling and simulation Loads & stress, Life-cycle analysis, Optimisation, Structural mechanics, Materials, Reliability validation	✓	✓	
<i>Plant construction & factory automation</i>			
<i>Recycling technologies</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Laminated object manufacturing (LOM)	✓	✓	✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing	✓	✓	
<i>Forming</i>			
Joining Adhesive bonding	✓	✓	
<i>Material property alteration</i>			
<i>Primary forming</i>			
<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>			
Cellular materials (foam materials) Closed-pore, Open-pore	✓	✓	
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Nanocomposites, Natural fibre reinforced plastics (NFRP)	✓	✓	
Fibres Aramid fibres, Basalt fibres, Glass fibres, Carbon fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	

Contacts

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