About this organisation

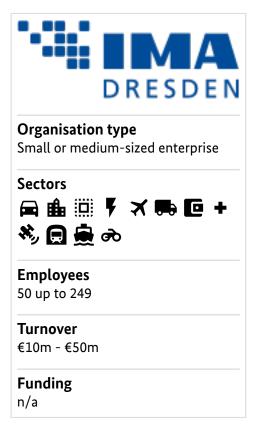
Machine translation

This organisation 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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| 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 machines0.5kN to, Climate & temp. chambers -70°to300°, 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 |

Overview of lightweighting expertise

Machine translation

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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 (Test methods) | ✓ | ✓ | |
| Services & consulting Training, Consulting, Testing and trials, Engineering, Standardisation, Prototyping, Validation, Simulation, Technology transfer, Approval, Others (Inspection and surveillance and certification (ISO/IEC 17065)) | ✓ | ✓ | |

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| Manufacturi earch Development & Supply |
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| Overview of lightweighting expertise Machine translation This organisation has been machine-translated based on data provided in German. | | | | | | |
|--|----------|----------|----------|--|--|--|
| | | | | | | |
| Manufacturing process | | | | | | |
| Additive manufacturing Laminated object manufacturing (LOM) | ✓ | ✓ | ✓ | | | |
| Coating (surface engineering) | | | | | | |
| Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Prepreg processing | ✓ | ✓ | | | | |
| Forming | | | | | | |
| Joining Adhesive bonding | ✓ | ✓ | | | | |
| Material property alteration | | | | | | |
| Primary forming | | | | | | |
| Processing and separating | | | | | | |
| Textile technology | | | | | | |

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing & Supply Research Development Material Biogenic materials 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) Aramid fibres, Basalt fibres, Glass fibres, Carbon fibres, Natural fibres Functional materials Metals Aluminium, Intermetallic alloys, Magnesium, Steel, Titanium **Plastics** Thermoset plastics, Elastomers, Thermoplastics Structural ceramics (Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats

Contacts Machine translation

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Contacts

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