

About this organisation

Machine translation

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

Applus+ IMA is a certified testing centre for manufacturers and the supply industry. Our focus is on the qualification, validation and monitoring of materials and products. As part of Applus+ Laboratories, we provide testing and certification services worldwide. We support industry, business and research to make products safer and more efficient - from material testing to approval of the finished product.

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 for 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

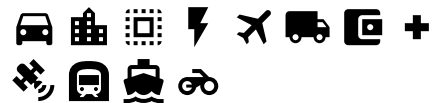
Wilhelmine-Reichard Ring 4
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Saxony
Germany
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Organisation type

Small or medium-sized enterprise

Sectors



Employees

50 up to 249

Turnover

€10m - €50m

Funding

About this organisation

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

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 & 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>			

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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Applus+ IMA

IMA Materials Research and Application Technology GmbH

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