About this organisation

Machine translation

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LZS GmbH was founded in 2003 as part of the TU Dresden Aktiengesellschaft (TUDAG).

Innovative diversity is our strength: LZS GmbH is one of Germany's leading development partners in the field of "function-integrative lightweight system construction in multi-material design". We offer the entire range of services for modern component and system development: from feasibility analysis to design, characterisation, structural and process simulation, production and component testing. Cross-industry product development is supported by certified quality management.

Marschnerstr. 39 01307 Dresden Saxony Germany www.lzs-dd.de



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

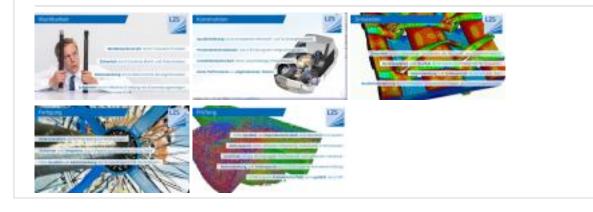
50 up to 249

Turnover

€2m - €10m

Funding

n/a



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Main areas covered	Feasibility studies and conception, Construction, Structure and process simulation, Material, component and system testing		
Infrastructure	Accredited test laboratory, Fibre composite production technologies, Multimaterial process technologies, Technology and product consulting		
Certifications	DIN EN ISO 9001:2008, Test laboratory: DIN EN ISO/IEC 17025, Rolls-Royce Development Supplier		
Keywords	Lightweight construction and multi-material design, Material characterisation, Component and system testing, Design and development, Simulation and method development		

Overview of lightweighting expertise					
Machine translation					
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	Research	M Development	fanufacturing & Supply		
Offer					
Products Parts and components, Semi-finished parts, Systems and end products, Materials, Tools and moulds	~	✓			
Services & consulting Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	~	✓			

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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 Actuator technology, Media conductivity, Sensor technology, Material functionalisation	✓	~			
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 Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓			
Plant construction & factory automation					
Recycling technologies					

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Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Manufacturing process Additive manufacturing 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography Coating (surface engineering) Fibre composite technology Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion **Forming** Impact extrusion, Compression moulding, Extrusion moulding **Joining** Hybrid joining, Adhesive bonding Material property alteration **Primary forming** Extrusion, Pultrusion, Injection moulding Processing and separating Textile technology Braiding, Preforming

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Overview of lightweighting expertise **Machine translation** This profile has been machine-translated based on data provided in German. Manufacturing Research Development & Supply Material **Biogenic materials** Bioplastics, Biocomposites, Wood Cellular materials (foam materials) Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Metal-ceramic composite, Metal matrix composite, Natural fibre reinforced plastics (NFRP), Laminates, Textile-reinforced concrete **Fibres** Glass fibres, Ceramic fibres, Carbon fibres, Natural fibres **Functional materials** Shape memory materials, Piezoelectric materials Metals Aluminium, Magnesium, Steel, Titanium **Plastics** Thermoset plastics, Thermoplastics Structural ceramics (Technical) textiles Meshes

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Contacts Machine translation This profile has been machine-translated based on data provided in German. Mr Dr.-Ing. Thomas Heber Customer Success Manager thomas.heber@lzs-dd.de

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