

# Lightweight Construction Centre Saxony GmbH

## About this organisation

### Machine translation

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

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](http://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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## About this organisation

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

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Semi-finished parts, Systems and end products, Materials, Tools and moulds	✓	✓	
<b>Services &amp; consulting</b> Training, Consulting, Testing and trials, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Field of technology</b>			
<b>Design &amp; layout</b> Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology, Material functionalisation	✓	✓	
<b>Measuring and testing technology</b> Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Environmental simulation, Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
<b>Modelling and simulation</b> Crash behaviour, Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation	✓	✓	
<i>Plant construction &amp; factory automation</i>			
<i>Recycling technologies</i>			

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> 3D printing, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography	✓	✓	
<i>Coating (surface engineering)</i>			
<b>Fibre composite technology</b> Fibre spraying, Filament winding, Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion	✓	✓	
<b>Forming</b> Impact extrusion, Compression moulding, Extrusion moulding	✓	✓	
<b>Joining</b> Hybrid joining, Adhesive bonding	✓	✓	
<i>Material property alteration</i>			
<b>Primary forming</b> Extrusion, Pultrusion, Injection moulding	✓	✓	
<i>Processing and separating</i>			
<b>Textile technology</b> Braiding, Preforming	✓	✓	

## Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
<b>Material</b>			
<b>Biogenic materials</b> Bioplastics, Biocomposites, Wood	✓	✓	
<i>Cellular materials (foam materials)</i>			
<b>Composites</b> 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	✓	✓	
<b>Fibres</b> Glass fibres, Ceramic fibres, Carbon fibres, Natural fibres	✓	✓	
<b>Functional materials</b> Shape memory materials, Piezoelectric materials	✓	✓	
<b>Metals</b> Aluminium, Magnesium, Steel, Titanium	✓	✓	
<b>Plastics</b> Thermoset plastics, Thermoplastics	✓	✓	
<i>Structural ceramics</i>			
<b>(Technical) textiles</b> Meshes	✓	✓	

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## Contacts

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