About this organisation

Machine translation

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LSE-Lightweight Structures Engineering GmbH was spun off from Chemnitz University of Technology in 2008. The company focuses on the development and manufacture of structurally integrated and multifunctional lightweight structures.

- Calculation, design and simulation of lightweight structures - Active and passive structural integration in fibre-reinforced plastic composite systems - Component production from fibre-reinforced plastic composites and elastomer materials - Injection moulding - polyurethane -Prototype construction - Tool and mould making

Otto-Schmerbach-Str. 19 09117 Chemnitz Saxony Germany 🖸 www.lse-chemnitz.de



Organisation type Small or medium-sized enterprise

Sectors

Employees 10 up to 49

Turnover Up to €2m

Funding n/a



About this organisation		
Main areas covered	Calculation, design, simulation, Structural integration in FKV, Component manufacture, Injection moulding, Tool and mould making	
Infrastructure	CAD (Solidworks), RTM press, Analytical/numerical simulation, Tool and mould making, PUR processing	
Certifications	ISO 9001:2015	
Keywords	Calculation, Fibre composites, Adaptronics and sensor technology, Injection moulding, Elastomer technology	

Overview of lightweighting expertise

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	Research	N Development	lanufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Software & databases, Tools and moulds		~	\checkmark
Services & consulting Training, Consulting, Testing and trials, Funding, Engineering, HR services, Prototyping, Validation, Simulation, Technology transfer		~	\checkmark

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	Research	Development	Manufacturi & Supply
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction		~	\checkmark
Functional integration Actuator technology, Media conductivity, Sensor technology, Thermal activation, Material functionalisation		\checkmark	\checkmark
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), System analysis, Materials analysis, Destructive analysis, Non-destructive analysis			~
Modelling and simulation Loads & stress, Life-cycle analysis, Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials, Reliability validation		~	\checkmark

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	Research	Development	Manufacturir & Supply
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Vacuum infusion		~	\checkmark
Forming Impact extrusion, Compression moulding, Thermal converting, Deep-drawing		\checkmark	\checkmark
Joining Riveting, Welding		\checkmark	\checkmark
Material property alteration			
Primary forming Injection moulding			\checkmark
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting			\checkmark
Textile technology Preforming		./	./

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	Research	Development	Manufacturin & Supply
Material			
Biogenic materials Bioplastics, Biocomposites, Wood		\checkmark	\checkmark
Cellular materials (foam materials) Closed-pore, Open-pore		\checkmark	\checkmark
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP), Laminates			\checkmark
Fibres			
Functional materials			
Metals			
Plastics Thermoset plastics, Elastomers, Thermoplastics			\checkmark
Structural ceramics			

Contacts

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ontacts	
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