

Steinbeis Innovation gGmbH

Steinbeis Innovation Centre Automation in Lightweight Construction Processes (ALP)

About this organisation

Machine translation

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

As your competent partner, we support you by developing automation concepts for lightweight construction processes as well as handling technology, special machines and devices for process automation. We also take on the project coordination of research projects.

Our range of services includes - Coordination of research projects - Realisation of R&D services - Preparation of research proposals --- Our main topics include - Novel fabrication systems in the field of flexible semi-finished products - Development of active pairings for handling complex reinforcing fibre structures and preforms - Research into novel active principles for gripping systems for process linking in lightweight construction processes suitable for large-scale production - Development of active pairings for ultrasonic components for the impregnation and consolidation of thermoplastic fibre composite semi-finished products

Stadlerstr. 14
09126 Chemnitz
Saxony
Germany

www.steinbeis.de/su/1551

Main areas covered Automation concepts, Lightweight construction processes, Handling technology, Process automation

Infrastructure

Certifications

Keywords

Memberships



Organisation type

Non-university research institution

Sectors



Employees

10 up to 49

Turnover

n/a

Funding

n/a

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Machines and plants, Systems and end products, Tools and moulds	✓	✓	✓
Services & consulting Consulting, Testing and trials, Funding, Engineering, Prototyping, Validation, Simulation, Technology transfer	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction	✓	✓	✓
Functional integration Actuator technology, Sensor technology, Thermal activation, Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Destructive analysis	✓	✓	✓
Modelling and simulation Crash behaviour, Loads & stress, Optimisation, Processes		✓	✓
Plant construction & automation Plant construction, Automation technology, Handling technology, Robotics	✓	✓	✓
Recycling technologies Material separation, Recycling	✓	✓	

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing	✓	✓	✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Pre-preg processing			✓
Forming Compression moulding, Thermal converting	✓		✓
Joining Welding, Others (Ultrasonic welding)	✓		✓
<i>Material property alteration</i>			
Primary forming Injection moulding	✓		✓
Processing and separating Drilling, Turning, Milling, Honing, Sawing, Cutting			✓
<i>Textile technology</i>			

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal matrix composite, Laminates	✓		✓
<i>Fibres</i>			
<i>Functional materials</i>			
Metals Aluminium, Steel			✓
Plastics Elastomers, Thermoplastics			✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Laid webs, Woven fabrics, Knitted fabrics, Nonwovens, mats			✓

Contacts

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Contacts	
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