

About this organisation

Machine translation

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

Industrial research and development in the field of materials, design and manufacturing technologies

1. in the field of fibre-reinforced polymers: material development, simulation of components and processes, manufacturing technologies, prototypes, testing 2. design of lightweight structures and components

Otto-Hahn-Ring 6
81739 München
Bavaria
Germany

www.siemens.com/ingenuityforlife

Organisation type

Large enterprises

Sectors



Employees

500 and more

Turnover

More than €50m

Funding

n/a

Main areas covered

Digitisation, Automation, Electrification

Infrastructure

Laboratory and technical centre equipment

Certifications

ISO 9000 ff

Keywords

Electric flying

Memberships

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Software & databases, Systems and end products	✓	✓	✓
<i>Services & consulting</i>			
Field of technology			
Design & layout Hybrid structures, Lightweight material construction	✓	✓	✓
Functional integration Actuator technology, Sensor technology, Material functionalisation	✓	✓	
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 Multiphysics simulation, Optimisation, Processes, Structural mechanics, Materials	✓	✓	
Plant construction & automation Automation technology, Handling technology	✓	✓	✓
Recycling technologies Downcycling, Recycling	✓		

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding, Laminated object manufacturing (LOM), Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS)	✓	✓	✓
Coating (surface engineering) Galvanising, Painting, Plasma process, Sputtering	✓	✓	
Fibre composite technology Filament winding, Manual lamination, Pre-preg processing, Vacuum infusion	✓	✓	
<i>Forming</i>			
Joining Adhesive bonding, Soldering, Welding	✓	✓	✓
Material property alteration Mechanical treatment, Heat treatment	✓	✓	
Primary forming Sintering, Injection moulding	✓	✓	
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Grinding, Cutting	✓		
<i>Textile technology</i>			

Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Bioplastics	✓	✓	
<i>Cellular materials (foam materials)</i>			
Composites Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Metal-ceramic composite, Nanocomposites	✓	✓	
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres	✓		
Functional materials Shape memory materials, Piezoelectric materials	✓	✓	
Metals Aluminium, Intermetallic alloys, Steel	✓	✓	
Plastics Thermoset plastics, Elastomers, Thermoplastics	✓	✓	
Structural ceramics Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics	✓	✓	
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Woven fabrics, Knitted fabrics	✓	✓	

Contacts

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