

SKZ - The Plastics Centre

Halle location

About this organisation

Machine translation

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

As the largest plastics institute in Germany, the SKZ offers solutions for all questions relating to plastics. (Further information at SKZ Würzburg) In addition to its core expertise in joining plastics, the SKZ's activities in composite technology are concentrated at the Halle site.

Courses are offered here for skilled workers and managers on the basics of processing fibre-reinforced plastics (FRP), model and mould construction and repair techniques. International projects and English-language courses are also part of the centre's portfolio. SKZ Halle is the place where processors can exchange ideas. Seminars and specialist conferences offer the ideal opportunity for this. The Composite research group in Halle deals with the holistic consideration of fibre-reinforced plastics (FRP), starting with the selection of materials and influencing the composite properties through to the technological realisation of production concepts. Other focal points are measurement and testing technologies, non-destructive analyses and the repair of fibre composite structures. The aim is to develop new concepts for the use of fibre-reinforced composites, particularly in the areas of wind energy, design applications and mobility.

Köthenerstraße 33 a
06118 Halle
Saxony-Anhalt
Germany
www.skz.de



Organisation type

Non-university research institution

Sectors

No specific sector

Employees

250 up to 499

Turnover

€10m - €50m

Funding

n/a

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Main areas covered	Fibre-reinforced plastics, Research and development, Training and further education, Gluing, Fügen
Infrastructure	Composite technical centre, Plastic welding technical centre, Bonding technology centre, Testing and analysis laboratory
Certifications	ISO 9001, DIN EN ISO 50001:2011, DVS 2212-1; 2212-3; 2220; 2221
Keywords	Composite, Fibre-reinforced plastics, Carbon, Welding & bonding
Memberships	Zuse community, AiF, AVK, DVS, AGFW, DVGW

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Materials	✓	✓	✓
Services & consulting Training, Consulting, Testing and trials, Prototyping, Validation, 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, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis	✓	✓	✓
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Plasma process, Others (Primers, CO2 snow blasting unit)	✓	✓	✓
Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion, Others (Repair process, pressing technology, autoclave process)	✓	✓	✓
<i>Forming</i>			
Joining Adhesive bonding, Sewing, Welding	✓	✓	
Material property alteration Mechanical treatment, Heat treatment	✓	✓	
<i>Primary forming</i>			
Processing and separating Drilling, Turning, Milling, Sawing, Grinding, Cutting	✓	✓	✓
<i>Textile technology</i>			

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	Research	Development	Manufacturing & Supply
Material			
Biogenic materials Biocomposites	✓	✓	
<i>Cellular materials (foam materials)</i>			
Composites Aramid fibre composites, Basalt fibre-reinforced plastic, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Metal-fibre-polymer composite, Natural fibre reinforced plastics (NFRP), Laminates	✓	✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres	✓	✓	
<i>Functional materials</i>			
<i>Metals</i>			
Plastics Thermoset plastics, Thermoplastics	✓	✓	✓
<i>Structural ceramics</i>			
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	

Contacts

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Site management

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