

TEC-KNIT CreativCentre for technical textiles

About this organisation

Machine translation

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

TEC-KNIT CCTT is a manufacturer and developer of technical textiles. The cross-industry expertise and the handling of a wide variety of materials enables a broad range of products (such as EMC shielding, armouring, FRP, energy absorbers, heaters, protective materials, etc.) as well as a continuous expansion of our expertise through exchange with universities and institutes (funded projects, theses).

Mitgliedschaft im CC e.V., MAI Carbon, development of highly drapable UD materials for wind power and the automotive industry, functional integration in semi-finished products, heating for FRP, development of hybrid roving, concrete reinforcements made of AR glass and basalt, technology development CoCo (near-contour composites), current BMWi project drivEcomp.

AM Böwing 10
46414 Rhede
North Rhine-Westphalia
Germany
www.tec-knit.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

€2m - €10m

Funding

n/a



Main areas covered

Semi-finished products, Fibre reinforcement close to the contour, Hybrid roving, Function integration

Infrastructure

Production of semi-finished products, Plastics laboratory, Coating

Certifications

ISO 9001:2015

Keywords

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	✓	✓	✓
Services & consulting Distribution, Prototyping, Validation		✓	✓
Field of technology			
<i>Design & layout</i>			
Functional integration Media conductivity, Sensor technology, Material functionalisation	✓	✓	
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
<i>Recycling technologies</i>			

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Powder coating		✓	✓
<i>Fibre composite technology</i>			
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Knitting, laid web production	✓	✓	✓

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites 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, Textile-reinforced concrete		✓	✓
Fibres Aramid fibres, Basalt fibres, Glass fibres, Ceramic fibres, Carbon fibres, Metal fibres, Natural fibres			✓
Functional materials Shape memory materials			✓
Metals Steel, Others (Tungsten, molybdenum, copper, nickel)			✓
Plastics Thermoset plastics, Elastomers, Thermoplastics			✓
Structural ceramics Ultra-high-temperature ceramics			✓
(Technical) textiles Yarns, rovings, Knitted fabrics	✓	✓	

Contacts

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