

About this organisation

Machine translation

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

Embro specialises in technical embroidery. With this technology, which is also known as Tailored Wire Placement (TWP) or Tailored Fibre Placement (TFP), we manufacture flexible, electrical heating elements & heating mats; textile sensors & RFID antennas and carbon or hybrid preforms for CFRP components on a customised basis. We are available as a development and manufacturing partner!

We manufacture preforms from carbon, glass, aramid and other high-performance fibres using our automated fibre placement machines. The rovings are laid on the embroidery base using sewing/embroidery technology and in any layout. Thanks to our wide range of machinery, we can produce carbon fibre fabrics up to a size of 2000x2000mm. The fibres can be laid in any direction along the load path, even in multiple layers. The preforms consist either of dry fibres for duoplastic processes (e.g. RTM) or on the basis of thermoplastic hybrid structures for efficient hot consolidation processes.

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Germany
www.embro-tech.de

Main areas covered Production of preforms with TFP

Infrastructure Automated CNC fibre placement

Certifications DIN ISO 9001:2015

Keywords TFP,fibre placement,preform production

Memberships



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

€2m - €10m

Funding

n/a

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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Research Development **Manufacturing
& Supply**

Material

Biogenic materials

Cellular materials (foam materials)

Composites

Fibres

Functional materials

Metals

Plastics

Structural ceramics

(Technical) textiles

Contacts

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