

# textile sensor by MSP

unit of Modespitze Plauen

## About this organisation

- textile sensors by MSP - Company unit of Modespitze covers processes of wire application on textile grounds used as resistive and capacitive sensors, connections and antenna layouts.

- development and optimization of sensor layouts - no restrictions on the geometry of the layout - prototyping of signal structures on textiles grounds - use of wires and metal hybrids (diameter 30-100  $\mu\text{m}$ ) for resistive and capacitive structures, leads, connections and antennas - textiles base materials used are fully compatible with the fiber-reinforced lightweight structure (compliant materials, no delamination) - directly integrated in the core (one layer) of the structure (direct material control DMC) - detects and measures strains, movements or vibrations (resistive like strain gauges) - detects and measures fluid levels, proximity (capacitive) and temperature

Annenstr. 9  
08523 Plauen  
Saxony  
Germany

[www.textile-sensors.com/en/](http://www.textile-sensors.com/en/)



### Organisation type

Small or medium-sized enterprise

### Sectors



Others:

### Employees

10 up to 49

### Turnover

Up to €2m

### Funding



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About this organisation	
<b>Main areas covered</b>	textile sensors, capacitive sensor, resistive sensor, textile fibre placement (TFP), textile sensor placement (TSP)
<b>Infrastructure</b>	optimization of layout , optimization of conductive material, prototyping textile sensors, production of textile sensors, functional integration
<b>Certifications</b>	
<b>Keywords</b>	textile sensors, sensor placement, wire placement, functional integration
<b>Memberships</b>	

Overview of lightweighting expertise			
	Research	Development	Manufacturing & Supply
<b>Offer</b>			
<b>Products</b> Parts and components, Semi-finished parts		✓	✓
<b>Services &amp; consulting</b> Testing and trials, Prototyping	✓	✓	✓
<b>Field of technology</b>			
<i>Design &amp; layout</i>			
<b>Functional integration</b> Actuator technology, Media conductivity, Sensor technology	✓	✓	✓
<i>Measuring and testing technology</i>			
<i>Modelling and simulation</i>			
<i>Plant construction &amp; automation</i>			
<i>Recycling technologies</i>			

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Overview of lightweighting expertise			
	Research	Development	Manufacturing & Supply
<b>Manufacturing process</b>			
<b>Additive manufacturing</b> Others (textile sensor placement - non-limited layouts for conductive structures and wires on textile grounds (Ablegeprozess))	✓	✓	✓
<i>Coating (surface engineering)</i>			
<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>			
<b>Textile technology</b> Others (fibre and wire placement TFP - textile fibre placement TSP - textile sensor placement textile sensor placement - non-limited layouts for conductive structures and wires on textile grounds )	✓	✓	✓

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**Overview of lightweighting expertise**

	Research	Development	Manufacturing & Supply
<b>Material</b>			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
<i>Composites</i>			
<i>Fibres</i>			
<b>Functional materials</b>			
<i>Others (metal hybrid fibers and yarns )</i>	✓	✓	✓
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

**Contacts**

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