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 µm) 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/

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

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

Overview of lightweighting expertise

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

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Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing Others (textile sensor placement - non-limited layouts for conductive structures and wires on textile grounds (Ablegeprozess))	✓	✓	✓
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology 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
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials Others (metal hybrid fibers and yarns)	✓	✓	✓
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

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