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 μ 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

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unit of Modespitze Plauen

About this organisationMain areas
coveredtextile sensors, capacitive sensor, resistive sensor, textile fibre placement (TFP),
textile sensor placement (TSP)Infrastructureoptimization of layout, optimization of conductive material, prototyping textile
sensors, production of textile sensors, functional integrationCertificationstextile sensors, sensor placement, wire placement, functional integrationKeywordstextile sensors, sensor placement, wire placement, functional integration

Overview of lightweighting expertise				
	Research	N Development	lanufacturin & Supply	
Offer				
Products Parts and components, Semi-finished parts		\checkmark	\checkmark	
Services & consulting Testing and trials, Prototyping	\checkmark	\checkmark	\checkmark	
Field of technology				
Design & layout				
Functional integration Actuator technology, Media conductivity, Sensor technology	\checkmark	~	\checkmark	
Measuring and testing technology				
Modelling and simulation				
Plant construction & automation				
Recycling technologies				

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Overview of lightweighting expertise			
	Research	N Development	Aanufacturing & Supply
Manufacturing process			
Additive manufacturing Others (textile sensor placement - non-limited layouts for conductive structures and wires on textile grounds (Ablegeprozess))	\checkmark	~	\checkmark
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	l Development	Manufacturing & Supply	
Material				
Biogenic materials				
Cellular materials (foam materials)				
Composites				
Fibres				
Functional materials Others (metal hybrid fibers and yarns)	\checkmark	\checkmark	\checkmark	
Metals				
Plastics				
Structural ceramics				
(Technical) textiles				

Contacts

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