

SWMS Systemtechnik Ingenieurgesellschaft mbH

COMPOSITES

About this organisation

SSWMS Systemtechnik Ingenieurgesellschaft mbH is a consulting and technology company in the field of software conception and development and virtual product development. Since 1996, SWMS has been helping companies to make complex business and engineering processes more professional, efficient and resource-saving.

SWMS's "PLM" division offers vendor-independent solutions for optimizing product development and manufacturing processes. SWMS relies on CAx and PDM standards in the areas of design and planning. Automated Fiber Placement (AFP) and Automated Tape Laying (ATL) are used in the automated production of fiber-reinforced components. Portal systems and robots process a wide variety of materials. With the "TapeStation" software, SWMS offers a solution in this complex environment, from the design of composite components to the programming of production systems.

Donnerschweer Straße 4a
26123 Oldenburg
Lower Saxony
Germany
www.swms.de



Organisation type

Small or medium-sized enterprise

Sectors



Employees

10 up to 49

Turnover

Up to €2m

Funding

Main areas covered

machine simulation, offline programming, Manufacturing simulation, post-processor integration, Composites web occupancy analysis

Infrastructure

CAESA® Software 3D TapeStation, integration Siemens NX, integration CATIA V5, integration Fibersim, integration 840D, KUKA CNC, etc.

Certifications

Keywords

3D Printing, Filament Winding, Fiber Placement, tape laying, software

Memberships

Composites United e.V., AVIASPACE Bremen e.V., MAI Carbon, Automotive Northwest e.V., Northwest.Digital

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Offer			
Products Software & databases	✓	✓	✓
Services & consulting Engineering, Simulation	✓	✓	✓
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Lightweight construction concepts	✓	✓	
Functional integration Actuator technology, Sensor technology	✓	✓	✓
Measuring and testing technology Non-destructive analysis	✓	✓	
Modelling and simulation Optimisation, Processes	✓	✓	✓
Plant construction & automation Plant construction, Automation technology, Robotics	✓	✓	✓
<i>Recycling technologies</i>			

Overview of lightweighting expertise

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Deposition welding	✓	✓	✓
<i>Coating (surface engineering)</i>			
Fibre composite technology Filament winding, Others (Fiber Placement, Tapelegen)	✓	✓	✓
<i>Forming</i>			
<i>Joining</i>			
<i>Material property alteration</i>			
<i>Primary forming</i>			
<i>Processing and separating</i>			
<i>Textile technology</i>			
Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP)	✓	✓	✓
Fibres Glass fibres, Carbon fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
<i>Structural ceramics</i>			
<i>(Technical) textiles</i>			

Contacts

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