

Forster System-Montage-Technik GmbH

Fibre-reinforced plastics (composites) department

About this organisation

Machine translation

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

SMT GmbH has established itself on the market as a supplier of lightweight, robust and fire-resistant fibre composite solutions. The service offered by SMT covers all important interfaces from design to production and assembly under one management. SMT has qualified teams of engineers, a very well-equipped development department, state-of-the-art production facilities with specialised personnel and mobile assembly teams.

Lightweight construction is an interdisciplinary topic and is implemented at SMT using various concepts (e.g. requirement lightweight construction, concept lightweight construction, construction and material lightweight construction). The design materials used by SMT, such as fibre composite plastic with continuous fibres (lightweight material construction), are particularly suitable as they can be designed to be advantageous for structural requirements in the load direction. Another special feature is that the fibre composite plastic only develops its mechanical properties during the actual production process, i.e. depending on the fibre content. The fibre content is in turn a result of the material and manufacturing process used. SMT has been involved with the topic of lightweight construction since the company was founded. Through numerous projects and innovative approaches, SMT has been able to acquire extensive knowledge of materials and production technologies, from which our customers naturally benefit.

Heinrich-Werner-Straße 1a
03149 Forst
Brandenburg
Germany
www.smt-forst.de



Organisation type

Small or medium-sized enterprise

Sectors

No specific sector

Employees

50 up to 249

Turnover

€10m - €50m

Funding

n/a

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About this organisation

| | |
|---------------------------|--|
| Main areas covered | Lightweight construction + fire protection, Fibre-reinforced plastics/composites, Structural components (load-bearing), Transport sector (rail & marine), Industry & plant engineering |
| Infrastructure | Research & development department, Design department, mechan. tests (static, dynamic), reverse engineering (3D scan), Various research projects |
| Certifications | ISO 9001:2015, DIN 6701-2, DIN EN 15085-2, DB Q1 Supplier certificate |
| Keywords | Composites, Lightweight construction, Fire protection, Function integration, System solutions |
| Memberships | |

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|------------------------|
| Offer | | | |
| Products Parts and components, Semi-finished parts, Systems and end products, Materials, Tools and moulds | ✓ | ✓ | ✓ |
| Services & consulting Testing and trials, Engineering, HR services, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair | | ✓ | ✓ |

Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|---------------------------|
| Field of technology | | | |
| Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts, Lightweight material construction | ✓ | ✓ | ✓ |
| Functional integration Media conductivity, Sensor technology, Material functionalisation | ✓ | ✓ | |
| Measuring and testing technology Component and part analysis, Materials analysis, Destructive analysis, Non-destructive analysis | ✓ | ✓ | ✓ |
| Modelling and simulation Loads & stress, Processes, Materials | | ✓ | ✓ |
| Plant construction & automation Handling technology, Robotics | | ✓ | ✓ |
| Recycling technologies Material separation | | ✓ | ✓ |

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Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
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| Manufacturing process | | | |
| <i>Additive manufacturing</i> | | | |
| Coating (surface engineering) Painting | | ✓ | ✓ |
| Fibre composite technology Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Vacuum infusion | ✓ | ✓ | ✓ |
| <i>Forming</i> | | | |
| Joining Hybrid joining, Adhesive bonding, Screwing | | ✓ | ✓ |
| <i>Material property alteration</i> | | | |
| <i>Primary forming</i> | | | |
| Processing and separating Drilling, Turning, Milling, Sawing, Shearing/ punching, Grinding, Cutting | | | ✓ |
| <i>Textile technology</i> | | | |

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| Material | | | |
| Biogenic materials Bioplastics, Biocomposites | ✓ | ✓ | ✓ |
| Cellular materials (foam materials) Closed-pore, Open-pore | ✓ | ✓ | ✓ |
| Composites Aramid fibre composites, Glass-fiber reinforced plastics (GFRP), Carbon-fiber reinforced plastics (CFRP), Natural fibre reinforced plastics (NFRP) | ✓ | ✓ | ✓ |
| Fibres Aramid fibres, Glass fibres, Carbon fibres, Natural fibres | ✓ | ✓ | ✓ |
| Functional materials Piezoelectric materials | | ✓ | |
| Metals Aluminium, Intermetallic alloys, Steel | | ✓ | |
| Plastics Thermoset plastics, Elastomers, Thermoplastics | ✓ | ✓ | ✓ |
| <i>Structural ceramics</i> | | | |
| (Technical) textiles Laid webs, Woven fabrics, Nonwovens, mats | ✓ | ✓ | ✓ |

Contacts

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Contacts

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