

Schunk Group

Schunk Carbon Technology

About this organisation

Machine translation

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

Schunk Carbon Technology is a global leader in the development, production and application of carbon and ceramic materials and products for the application areas Mechanical Carbon, Electrical Carbon, Technical Ceramics and High Temperature Applications.

Carbon offers an infinite number of possible applications in industry. Today, it is replacing more and more metal components in the form of composites in order to reduce weight, consumption and emissions and to provide performance where metals already fail. But carbon has much more to offer in this area of application. This is precisely where Schunk Carbon Technology comes in with its technological edge: We not only transform carbon and ceramic materials into new industrial applications to save weight, but also expand the function of our components to offer our customers added technological and economic value. We call this Process Added Value Engineering (PAVE). With this unique development process, we are an innovative development partner for CFC, CFRP and ceramic components in thermal, electrical, mechanical and structural applications.

Rodheimer Straße 59
35452 Heuchelheim
Hesse
Germany
www.schunk-carbontechnology.com



Organisation type

Large enterprises

Sectors

No specific sector

Employees

500 and more

Turnover

More than €50m

Funding

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| | |
|---------------------------|--|
| Main areas covered | CFC, CMC, CFRP, Oxide fibre reinforced oxide ceramic |
| Infrastructure | Vacuum system construction, Solar industry, Crystal growing, Hot glass handling, Sleeves for permanent magnet motors |
| Certifications | ISO 9001, ISO 14001, ISO 50001 |
| Keywords | Heater, Charging racks, Carrier, Sleeves, Insulations |
| Memberships | |

Overview of lightweighting expertise

Machine translation

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|------------------------|
| Offer | | | |
| Products Parts and components, Semi-finished parts, Materials, Tools and moulds | ✓ | ✓ | ✓ |
| Services & consulting Testing and trials, Engineering, Prototyping, Simulation, Maintenance and repair | ✓ | ✓ | ✓ |

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Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
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| Field of technology | | | |
| Design & layout Lightweight manufacturing, Hybrid structures, Lightweight construction concepts | ✓ | ✓ | ✓ |
| Functional integration Material functionalisation | | | ✓ |
| Measuring and testing technology Component and part analysis, Materials analysis, Destructive analysis, Non-destructive analysis | ✓ | ✓ | ✓ |
| Modelling and simulation Loads & stress, Optimisation, Materials | ✓ | ✓ | ✓ |
| Plant construction & automation Handling technology | | | ✓ |
| <i>Recycling technologies</i> | | | |

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Overview of lightweighting expertise

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| | Research | Development | Manufacturing & Supply |
|--|----------|-------------|------------------------|
| Manufacturing process | | | |
| <i>Additive manufacturing</i> | | | |
| Coating (surface engineering) Plasma process, Others (CVD coating with SiC and PyC) | | | ✓ |
| Fibre composite technology Filament winding, Manual lamination, Resin infusion process, Pre-preg processing | ✓ | ✓ | ✓ |
| Forming Compression moulding | | | ✓ |
| Joining Adhesive bonding, Screwing | | | ✓ |
| Material property alteration Mechanical treatment, Thermochemical treatment, Heat treatment | ✓ | ✓ | ✓ |
| <i>Primary forming</i> | | | |
| Processing and separating Drilling, Turning, Milling, Honing, Sawing, Shearing/punching, Grinding, Cutting, Others (Water jet cutting) | | | ✓ |
| <i>Textile technology</i> | | | |

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| | Research | Development | Manufacturing & Supply |
|---|----------|-------------|------------------------|
| Material | | | |
| Biogenic materials Biocomposites | ✓ | ✓ | |
| Cellular materials (foam materials) Closed-pore, Open-pore | | | ✓ |
| Composites Glass-fiber reinforced plastics (GFRP), Ceramic matrix composite (CMC), Carbon-fiber reinforced plastics (CFRP), Others (Carbon fibre reinforced carbon) | ✓ | ✓ | ✓ |
| Fibres Glass fibres, Ceramic fibres, Carbon fibres | ✓ | ✓ | ✓ |
| <i>Functional materials</i> | | | |
| <i>Metals</i> | | | |
| <i>Plastics</i> | | | |
| Structural ceramics Non-oxidic ceramics, Oxidic ceramics | ✓ | ✓ | ✓ |
| <i>(Technical) textiles</i> | | | |

Contacts

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| Contacts | |
|--|--|
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