Schunk Group

Schunk Carbon Technology

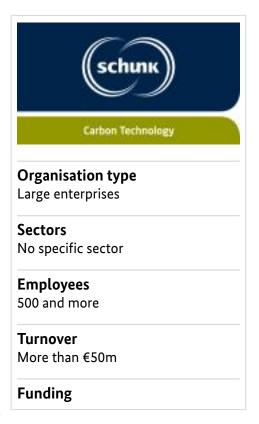
About this organisation

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.



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Germany

www.schunk-carbontechnology.com

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About this organisation				
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 This organisation has been machine-translated based on data provided in German. Manufacturing Research Development & 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					
Machine translation					
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	Research	Development	Manufacturing & Supply		
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			✓		
Recycling technologies					

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Manufacturing process					
Additive manufacturing					
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	✓	✓	✓		
Primary forming					
Processing and separating Drilling, Turning, Milling, Honing, Sawing, Shearing/punching, Grinding, Cutting, Others (Water jet cutting)			~		

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Overview of lightweighting expertise **Machine translation** This organisation has been machine-translated based on data provided in German. Manufacturing **Development** & Supply Research 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 Functional materials Metals **Plastics Structural ceramics** Non-oxidic ceramics, Oxidic ceramics (Technical) textiles

Contacts

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