

# SGL Carbon Innovation with Carbon

Hannover Messe 2019 – Hall 002 Booth A52



## Additive manufacturing with carbon and SiC

## Advanced ceramics

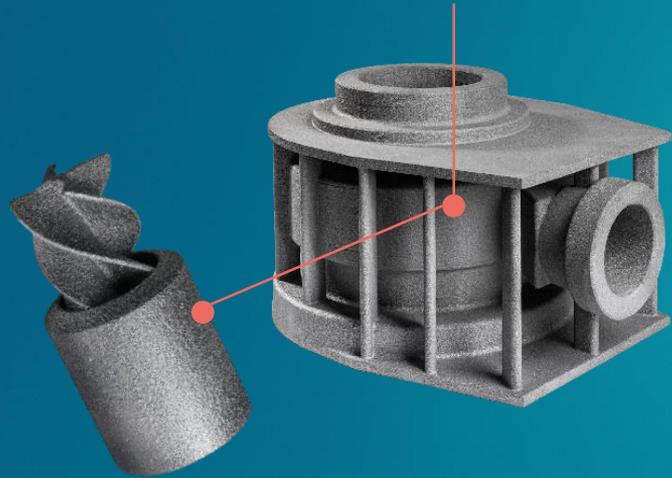
## Hybrid materials

- Freedom of design
- Agile manufacturing
- Optimized structures

- New material combinations
- Innovative textiles
- Advanced production technologies

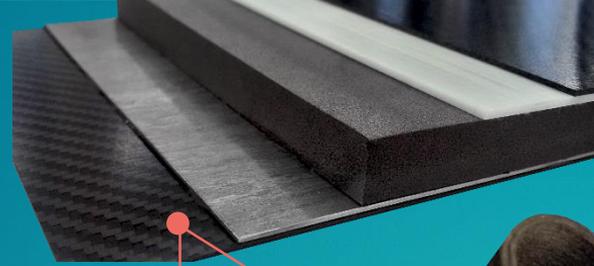
- Extraordinary fracture toughness
- Unmet wear resistance
- Outstanding temperature stability

# Additive manufacturing with carbon and SiC



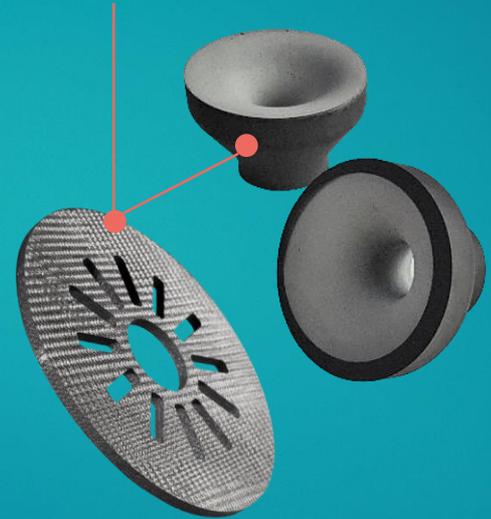
## Hybrid materials

- Optimized pump casing
- Static mixer
- Casting core
- Heat exchanger



- Tubular carbon fiber structure
- Metal-CFRP-composite
- CFRP rebar for concrete reinforcement

# Advanced ceramics



- Friction elements
- Cutting tools
- Ceramic coated graphite burner nozzle

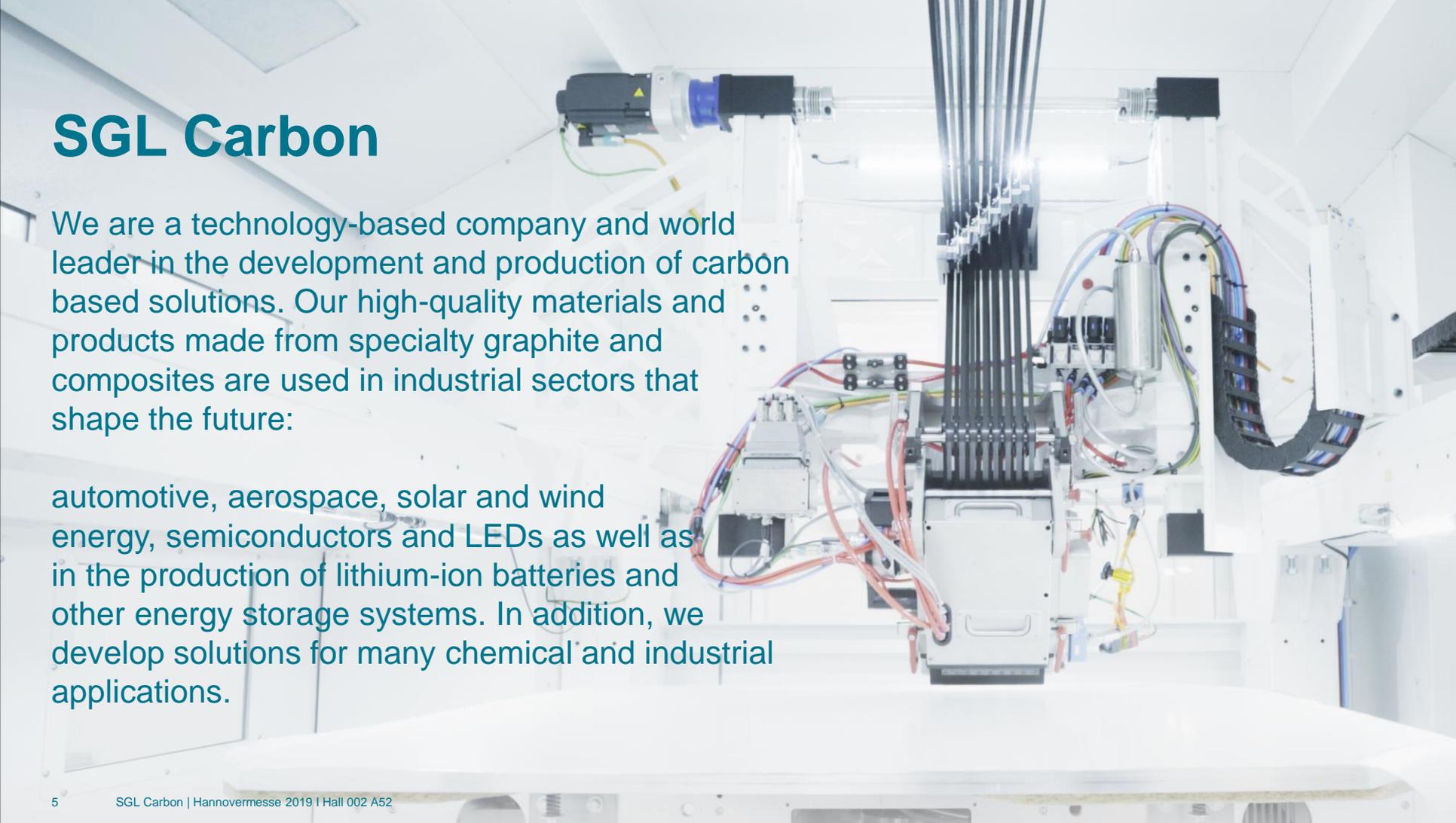


# SGL Carbon

Company Information



# SGL Carbon



We are a technology-based company and world leader in the development and production of carbon based solutions. Our high-quality materials and products made from specialty graphite and composites are used in industrial sectors that shape the future:

automotive, aerospace, solar and wind energy, semiconductors and LEDs as well as in the production of lithium-ion batteries and other energy storage systems. In addition, we develop solutions for many chemical and industrial applications.

## Data and facts

**12%**  
Sales increase in 2017

**€860m**  
Sales in 2017

**4200**  
Employees in 2017

**34**  
Sites

**100+**  
Countries

# Focus on two business units, each with a high market share, and attractive market growth



## Composites – Fibers & Materials (CFM)

- Fibers
- Textiles
- Prepregs
- Composites

## Graphite Materials & Systems (GMS)

- Blocks and expanded graphite
- Semi finished materials
- Components
- Systems

## Corporate Functions

- Central Innovation (CI): Research & Development, growth fields, start-ups
- Central functions & services

# Commanding the entire value chain: Advantages in cost, quality and differentiation

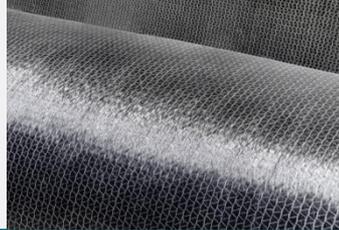
## CFM



Raw materials



Intermediate stages



Semi finished products

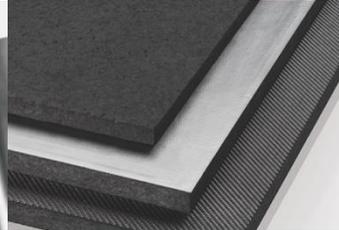


Solutions & components

- Focus on **customer requirements**
- **Tailor-made solutions**
- Differentiation through **integration**



## GMS





**More information at  
[www.sglcarbon.com](http://www.sglcarbon.com)**