



Industry

Carbon Fiber Sheet Molding Compound

High-strength lightweight material for industrial serial-production components



The robust lightweight alternative – efficient and ready for serial production

Schunk presents Carbon Fiber Sheet Molding Compounds (C-SMC) that can be efficiently used for serial production.

The advantages become clear when this material is used in place of milled aluminum parts: C-SMC is some 40 % lighter while offering comparable material properties and a more efficient material utilization without scrap. The serial manufacturing process, too, can take place with short cycle times and consistent, high quality.

C-SMC can be used in a wide range of applications: for instance in cable fixtures in aircraft, handling systems for robots or as interior components in automobiles.

- Integral design allows for cost saving through reduction of the total number of parts
- Components that are applied at high acceleration rates
- Controllable mold shrinkage and local stiffening, e.g. due to rib structure
- Flexibility for hybrid components in combination with other CFRP and metal parts

Your major benefits at a glance:

- Simple realization of changing wall thicknesses and complex geometries
- Short cycle times, easily scalable for large-volume production
- Minimal material cut-off wastage and near net-shape technology: rear need for post-processing
- Constant properties over a wide temperature range
- Outstanding surface quality
- High fatigue resistance
- Non-corrosive



Application in various markets

- Automotive
- Aerospace
- Medical technology
- Defense
- Machinery
- Industry

Schunk Carbon Technology

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