During the past decades EPC has recognized the growing demand for carbon fiber products in the global market. Carbon fiber is valued for its high strength and lightweight characteristics. EPC offers a complete turnkey solution for the realization of tailor-made carbon fiber production facilities. In addition to industrial-scale production plants, EPC offers lab-scale and pilot production plants, ideal for staff training, recipe development and product optimization.
EPC’s Carbon Fiber Technology
Pilot Plants and Demo Plants

Carbon fiber is an exciting material with multiple applications in automotive, aviation, sports and many other growth markets. Carbon fiber has the advantage of being strong with light weight and high chemical resistance and temperature tolerance. The market demand for carbon fiber grows continuously.

Investing in a lab-scale or pilot plant is the logical first step for newcomers in the carbon fiber industry, but also offers added value for existing players.

Pilot Plant - Advantages
- Staff training
- Raw material testing and approval
- Recipe development & trials
- Lab based optimization of process & product
- Product trials (polymerization, spinning, carbonization)
- Analysis – analytical research

FROM MONOMER TO HIGH QUALITY CARBON FIBER
ALL STEPS UNDER ONE ROOF

A CARBON FIBER PILOT PLANT ENABLES:
- Product trials
  Including polymerization, spinning and production of carbon fiber.
- Raw material testing and approval
  Different raw materials can be used for production of samples; resulting polymer precursor and carbon fiber quality can be analyzed and evaluated.
- Recipe development
- Lab based process and product optimization
  Pilot plant design allows simulation of different process parameters.
- Staff training
  Prior to the start-up of a carbon fiber plant.
- Analysis – analytical research

A CARBON FIBER PILOT PLANT CONSISTS OF:
- PAN polymerization technology
- Dope (spinning solution) preparation
- Precursor spinning technology
- Carbon fiber production (oxidation and carbonization)

Contact
Karol Kerrane
Business Development Director
Phone: +49 3628 66048 - 29 00
Email: karol.kerrane@epc.com

Michael Streng
Member of the Managing Board
Phone: +49 6023 5017 - 21 20
Email: michael.streng@epc.com

Visit our Carbon Fiber Demonstration Facility in Germany
We have a fully functional carbon fiber demonstration facility in Germany which includes PAN polymerization, precursor spinning and carbon fiber production.