



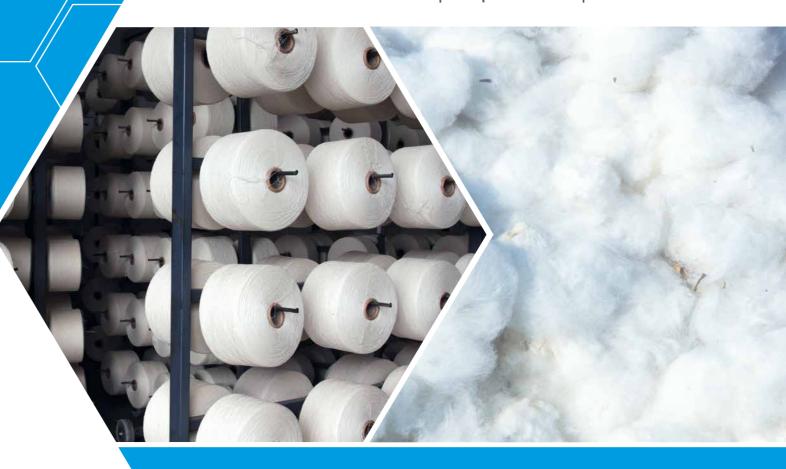








Filaments | Staple Fibers | Technical Yarns



CONTACT

EPC Engineering & Technologies GmbH

Siemensstrasse 24 - 26 63755 Alzenau Germany

Phone: +49 6023 5017 - 2110

Fax: +49 6023 5017 - 2117

Email: alzenau@epc.com

Web: www.epc.com

Spinning plants for filaments, staple fibers and technical yarns

EPC offers process technology, engineering services and equipment supply for the construction of modern and cost-effective spinning plants for filaments, staple fibers and technical yarns. We meet our customers' requirements for both, small capacities and large direct spinning plants. EPC's filament spinning systems are designed for the production of POY and FDY. Technical yarns are characterized by highest stability and excellent durability. EPC's staple fiber technology is suitable for a wide range of applications.







EPC Group is certified per DIN EN ISO 9001





EPC variYARN®

Filaments | Staple Fibers | Technical Yarns

Today, man-made fibers find many applications, in modern apparel, home furnishings, medicine, aeronautics and many more. EPC Engineering & Technologies GmbH is offering complete production facilities based on long-time experience and expertise. The combination between EPCs technology and proven equipment from well-known manufacturers is the foundation for excellent quality fibers and filaments for a wide range of applications at low production costs.

Filaments and fibers can be produced in direct spinning plants starting from polymer melt or in extruder spinning plants from chips. POY (Partially Oriented Yarn) is manufactured using the godet process; it is further processed into draw textured or air textured yarn. FDY (Fully Drawn Yarn) is made on spin-draw-machines in one step at high speed and can be used for flat yarn applications.





TYPICAL FINAL PRODUCTS FOR TECHNICAL YARN:

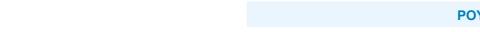
- Conveyor belt yarn
- Tire yarn & dipped card fabric
- V-belt yarn
- Yarn for hoses
- Belt and rope yarn

Large direct spinning lines with capacities of 200 tons/day are being utilized for the production of staple fibers. The polymer is melt spun and the bundle of continuous filaments is collected into a tow. The tow is further processed in consecutive steps such as drawing, crimping, spin finish application, drying and then cut into defined lengths to get cut fibers almost equal in length and properties to natural fibers such as cotton or wool.

For the production of technical yarn EPC offers different process routes starting from monomer to the final yarn. Rheologically optimized polymer distribution pipes ensure an even melt distribution and melt homogeneity for better spinning performance.

Spin packs are designed for easy handling and ensure, in connection with the annealer and the quenching system, a uniform yarn formation that is a condition for high tenacity yarn. The draw-winding machine is designed for 3, 4 or 6 ends per position for a high productivity. The heated godets allow a precise temperature and speed control.

costs. starting from



	POY	FDY
PET Filament	56 - 330 dtex 44 - 192 Filaments	33 – 330 dtex 10 – 144 Filaments
PA6.6 Filament	4 – 220 dtex 3 – 192 Filaments	-
PA6 Filament	8 – 210 dtex 3 – 96 Filaments	17 – 220 dtex 5 – 48 Filaments
PP Filament	-	33 - 110 dtex 10 - 34 Filaments

STAPLE FIBER TYPES

PET Filament Production Range

Tenacity cN/tex

70

60

HMINT Cotton Type

40

Cotton Fibre

Wool Type, Pilling Resistant

EPC AS A TURNKEY CONTRACTOR

Highest product quality and short delivery time

- Engineering (basic, detail, turnkey) out of one hand
- · Tailor-made or ready-made solutions
- · Flexibility to meet all customers demands in shortest time
- High productivity and low operation costs
- Highest consistency of product quality and reproducibility for each product lot
- Multiple number of variYARN®-modules per spinning line, i.e. 2,4,6,8,10 or 20 modules to meet the demands of our customers
- Required utility plants / labs can be engineered and supplied
- Individual masterbatch production units can be supplied, shortening the supply chain and reducing delivery time

GROUP



Phone: +49 6023 5017 - 21 20 Email: michael.streng@epc.com







Dipl.-Ing. (FH)/ Dipl.-Wirt.-Ing. (FH)

Jörg Hamann

Technology Manager

Member of the Managing Board
Phone: +49 6023 5017 - 2116

Email: joerg.hamann@epc.com



- Chemistry
- Pharmaceuticals & Fine Chemistry
- Polymers & Fibers
- Renewable Energies
- Biotechnologies
- Engineering Services & Infrastructure



- Cryogenic Systems
- Systems for Compression & Liquefaction of Gases
- Small Scale LNG Systems
- Air Separation Systems
- CO, Technologies
- Special Applications for Technical Gases



- Construction Engineering
- Infrastructure
- Building & Civil Engineering
- Project Management
- Technical Building Equipment

