

Siemens. Partner for the
chemical fibers industry.

chemicals



SIEMENS



Challenges facing the chemical fibers industry

Never touch the yarn by hand.

The yarn must never break.

Running at a fast pace – with less waste.

Productivity of the overall process is key.

Systematical quality assurance – time after time.

Every minute counts in maintenance and service.

Productivity, safety, and speed are the key factors for success in the continuous production processes of the chemical fibers industry. Only companies that can successfully master these challenges can consistently meet market demands for short delivery times and ensured quality.

The Siemens range of products and solutions is specifically tailored to meet these requirements. Top priority is placed on integration and openness in all key areas, from automation and drives to process instrumentation. These solutions are based on proven industrial standards and are optimized to achieve the highest possible degree of economic efficiency throughout the entire life-cycle of a plant.



You know the factors required to achieve higher productivity in chemical fibers plants: a maximum degree of automation, consistent quality and, last but not least, the highest possible availability. How can your competitiveness be permanently ensured as environmental protection and safety regulations become stricter? Which solutions make your production process stable and efficient enough for you to be one of the global market leaders?

We have the answers:

Our SIMATIC PCS 7 process control system, the SIMATIC automation standard and the SINAMICS and MASTERDRIVES drive systems, are proving themselves millions of times daily in industrial applications. And innovations such as Advanced Process Control (APC) or Fuzzy Logic are specifically tailored to your technological process.

Siemens Competence Centers for the chemical industry focus on the specific requirements of this industry and bundle our expertise from individual products to comprehensive solutions. We continually integrate the experience we have gained from previous applications into our solutions for the chemical fibers industry.

With our unique combination of sophisticated products, software competency, and application know-how, Siemens is your best partner for the chemical fibers industry around the world.





Your requirements

Our solutions

Never touch the yarn by hand.

Your competitive strength depends on a maximum degree of automation with a minimum investment in resources. But real productivity improvements require a perfect match of the automation to the process.

Concepts for a maximum degree of automation

Siemens delivers automation solutions with our comprehensive process engineering expertise built in. Examples include our SIMATIC PCS 7 process control system with Advanced Process Control (APC), or our Fuzzy Logic control products, which can actually learn from the process for continuous process improvement.

The yarn must never break.

Equipment shutdowns due to process malfunctions or for product changeovers are very costly. Therefore, the most important goals are maximum availability and safety, as well as short system changeover times.

A process control system with integrated highest availability

With SIMATIC PCS 7, Siemens is offering one of the most flexible and powerful process control systems on the market. The system can be configured with redundancy on all levels, based on open industry standards such as PROFIBUS or Industrial Ethernet. And Totally Integrated Power helps you manage power failures and avoid peak demand problems.

Running at a fast pace – with less waste.

Productivity means increasing throughput while minimizing scrap.

Drive systems for maximum throughput

Siemens SINAMICS and MASTERDRIVES drives are engineered for very high production rates, consistent speed control, and extremely fast control response, the basic requirements for a stable process. They are all integrated with the fastest automation systems on the market to ensure consistent process quality at all times.

Productivity of the overall process is key.

To optimize a process from end to end, it must be integrated from end to end. Transparency and openness are crucial for ensuring stable processes.

A concept for a networked production

Totally Integrated Automation (TIA) by Siemens provides comprehensive capabilities for horizontal and vertical networking, with openness to allow integration of specified process instrumentation and package units via PROFIBUS. Our process control system is designed to interact smoothly with batch recipe management, drive systems and field instrumentation, including automatic responses to individual component failures.

Systematical quality assurance – time after time.

The main challenges in assuring product quality are consistency and reproducibility. These challenges place very high demands on your instrumentation and controls, drive systems, actuators, and sensors.

Solutions to ensure consistently high quality

Siemens supplies the chemical fibers industry with proven automation systems and drives, as well as full transparency for the entire process. This forms the basis for trouble-free production, high-quality fiber products, and complete process traceability and reproducibility at all times. What's more, safety is fully integrated right from the start through SIMATIC Safety Integrated.

Every minute counts in maintenance and service.

When producing on a global basis, you need to be absolutely sure that everything is running smoothly at your locations all over the world. Global service and support play a key role.

Service and support around the clock

Siemens solutions are designed to achieve both the highest possible degree of availability and low maintenance. The convenient-to-handle modules can be quickly replaced by your own operation or service personnel. If required, we can support you around the clock anywhere in the world with the Siemens Customer Support and the Siemens Spare Parts Service – 24 hours a day, every day of the year.



For quick and direct additional information, go to:

www.siemens.com/chemicals

Copyright of used illustrations:

– Neumag, Regional Branch of Saurer GmbH & Co. KG,
Neumünster: Page 2 (center)

– Zimmer AG, Frankfurt a. M.: Pages 2 (top), 5 and 7

Siemens AG expressly thanks these companies for the transfer of image rights for this project.

Siemens Aktiengesellschaft

Automation and Drives
Competence Center Chemicals/Cement/Glass
76181 Karlsruhe; Germany

SIMATIC, SINAMICS and MASTERDRIVES are trademarks of Siemens. Other designations used in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owners.

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.