



SIEMENS

PROCESS INSTRUMENTATION

Chemical companies face challenges to **lower costs and optimize production**

Improve your plant efficiency with the digital twin from Siemens

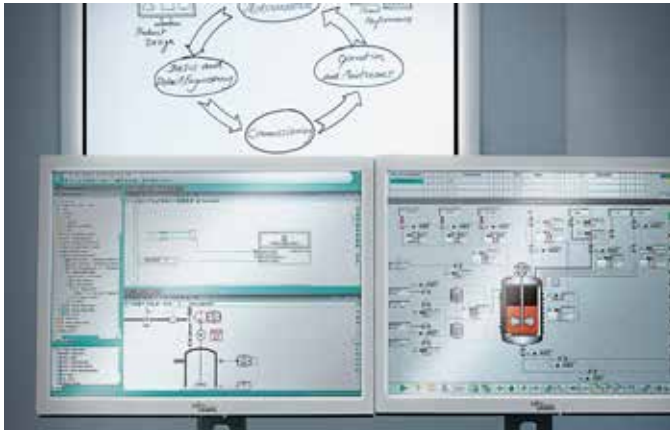
usa.siemens.com/chemical

Chemicals face challenges to lower costs and optimize production.

Chemical companies are faced with challenges to bring a strong cost position for operations, drive innovation in Specialty Chemicals and improve time-to-market. Customers are demanding products at lower and lower costs driving strong cost competition. Specialty Chemicals have to differentiate their products to stand out in an increasingly competitive market. Chemical products, excluding Specialty Chemicals, are becoming more commoditized and a faster time-to-market is needed to avoid missed opportunities.

Siemens digital twin is the solution.

Improved efficiency, increased flexibility, faster time-to-market, and improved quality are all possible with the digital twin from Siemens. Siemens digital twin is the result of safe and secure software working with smart hardware to gather data seamlessly throughout the life cycle and expand productivity at every stage of the value chain. For chemical companies choosing to build their digital enterprise with Siemens, this means higher returns from chemical plant design and engineering through production.



Plant Engineering Software (COMOS)



SIMIT - Simulation platform for virtual commissioning

Cost savings can be achieved throughout the production life cycle with COMOS and SIMIT.

Margins can be hard to find in today's chemicals market with threats to the bottom line at each stage of the chemical production life cycle, but there are still opportunities for building a competitive advantage. With Siemens COMOS and SIMIT, you can begin protecting margins as early as the design stage of production.

Siemens SIMIT is a simulation software that enables companies to simulate production processes before construction begins.

SIMIT helps chemical companies to get products to market faster by ensuring production will run smoothly and ahead of time while avoiding reengineering after start up. An additional benefit of SIMIT is the savings from having a virtual training platform available for operations staff before commissioning.

COMOS provides plant design engineers, operating personnel, company management and solution partners with a central data hub that meet their specific needs across all project phases. This asset management platform effectively integrates engineering and operations environments and allows workflows to be executed in parallel, thus saving time and reducing costs. With COMOS, existing data can be used to design and commission operations anywhere around the globe.

Profitability can be enhanced by turning big data into smart data.

Siemens Insights Hub is an open cloud IIoT operating system that gathers data from plant operations to provide real time analysis, turning big data into smart data. Insights Hub allows for the open development of apps that put decision making insights in the palm of your hand. Operations data seamlessly linked to the safe and secure Insights Hub cloud can be used to reduce downtime by enhancing maintenance response, predicting failures, and providing real time input on production outcomes.

Downtime can be extremely expensive when it involves large drive train systems in a plant. Siemens Drive Train Analytics potentially saves thousands in lost productivity due to unplanned, extended downtime. The whole drive system is monitored via the cloud and drive performance is analyzed to provide notification of potential failures so maintenance scheduling can be done when conditions are optimal and least costly.

Siemens is your partner for digital enterprise.

Chemical companies face many challenges in today's rapidly changing market, but they don't have to be faced alone. With Siemens solutions such as COMOS, SIMIT, Insights Hub, and Drive Train Analytics at the foundation of your digital twin, your data becomes your competitive advantage.

Legal Manufacturer

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 Order No.: PIFL-00186-0823
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