Industry Software from Siemens
The future has already begun: virtual planning, real production.

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Digitalization as a driving force for the production of the future

Overcoming interfaces, working without barriers, an industrial landscape with no media breaks: With its Digital Enterprise Platform, Siemens is providing a comprehensive range of products for the production of the future.

Industry Software solutions incorporate the benefits of digitalization into the value creation stages of industrial production and create diverse synergies. A common database is available to all involved parties, everyone is always working with the most up-to-date data – and everyone can immediately contribute suggestions for improvement. This makes digitalization a driving force for the production of the future.
Industry Software from Siemens

- Reduced time-to-market
- Optimal productivity and efficiency throughout the entire product and production lifecycle
- Managing the diversity of customized products
- Short-term response to changing market conditions
- Optimal use of resources, minimized energy consumption
- Optimal product quality
- Reviewed planning steps – through simulation before implementation

The digital backbone of production – today and tomorrow

With the concept of the Digital Enterprise Platform, Siemens is answering the crucial questions for the future of industrial production: How can we reduce the time-to-market? How can we restrict the consumption of resources to only what is strictly necessary? How can we keep control of energy requirements in production? How can we increase and manage the diversity? How can we produce more despite the increased complexity?

The Digital Enterprise Platform combines software tools for all value processes, from the design of the product to production planning to the actual production. The use of three-dimensional virtual models and computer simulations eliminates the need for the time-consuming and cost-intensive construction of prototypes. At the same time, the integrated software platform overcomes the barriers of inconsistent data from different engineering disciplines and processes and from development locations around the world.
In focus: Optimization of the entire lifecycle

Essential productivity improvements are achieved primarily through innovative, largely software-supported work processes. With its portfolio of Industry Software, Siemens already offers important technologies to help you increase your competitiveness.

The product range of the Digital Enterprise Platform lays the foundation for product design tailored to the needs of production, optimized use of resources, shorter innovation cycles, and the ability to manufacture customized products in the shortest possible time. At its core, the Digital Enterprise Platform comprises Siemens Product Lifecycle Management Software as well as Totally Integrated Automation (TIA), the open system architecture that covers the entire production process.

This core permits the exchange of information between virtual product development, simulation, and production planning with engineering and the execution of actual production; it is supported by customized services along the entire value chain.
Even the best product idea has to go into production at some point. Increasingly, knowing which methods can be used best to accomplish this determines whether the product will be successful.

Industry Software from Siemens relies on the intensive collaboration between all production disciplines and the product development with production planning – from the layout and design of processes to their simulation and validation. The goal is shorter cycle times, optimal quality, and greater cost-effectiveness.

- Improved process definition and production planning through simulation with Tecnomatix
- Fast performance evaluation of complex products with LMS Test.Lab
- Safe plant engineering and early cost calculation with COMOS FEED
- Advanced planning and scheduling with Preactor

Time-to-market reduced by up to 50%

Take advantage of the benefits of virtual product models in a uniform data environment. With Industry Software from Siemens, CAD, CAE, and CAM data is seamlessly integrated, while 3D simulations improve product properties.

All parties can immediately evaluate every change in terms of its technical and financial impact. This means that your product can be brought to market faster, more innovative, and with greater quality and at lower costs.

- Greater productivity of development thanks to seamless integration
- Simplified global collaboration with Teamcenter
- Optimization of design and production of innovative composite materials with Fibersim

Overall product development by up to 25% faster
Production engineering

Benefit from a common electronic workflow in integrated production engineering. This approach avoids errors, makes the work more efficient, and reduces your planning times.

With tools such as COMOS and SIMATIC PCS 7 for the process industry and TIA Portal for the manufacturing industry, you will take the first step towards a Digital Enterprise and will be able to use the available resources more effectively.

- Simple, error-free data exchange
- Increased work efficiency through an intuitive user interface and data transparency with TIA Portal
- Simplified change management

By up to 30% time savings with integrated engineering

Real world

Even the best production planning is of very little help without continuous control, monitoring, and quality assurance.

As part of the Siemens Manufacturing Operations Management (MOM) platform, SIMATIC IT establishes a connection to the PLM and ERP systems. The exchange of data with these systems reveals the benefits of integration, such as traceability. With COMOS software, planning and operations can be optimally coordinated.

- Optimized use of resources and improved production results
- Real-time monitoring of your production performance via key performance indicators
- Timely, well-informed decisions
- Safe management of plants and assets with COMOS Operations

Greater productivity through improved responsiveness
Get the benefits of the digitalized value chain in service too. Industry Software from Siemens offers you numerous tools for improving the operation and/or maintenance of your plants.

Improved service always means greater productivity thanks to less or better-planned plant downtime. For the integration of the Industry Software solutions, Siemens additionally offers you services, consulting, and training tailored to your unique business environment. Typical services include:

- Comprehensive support for efficient service planning and implementation with COMOS, SIMATIC IT Support Service, and PLM software
- 24-hour support including real-time monitoring and remote maintenance
- Comprehensive information management throughout all lifecycles of the plant
- Systematic planning of plant downtimes for preventive maintenance (e.g. through condition monitoring)

By increasing preventive maintenance, costs can be reduced by up to 80%
Through the exchange of information in the digitalized value chain, Industry Software from Siemens helps you to achieve production that is faster, more sustainable, and more economical despite growing complexity.