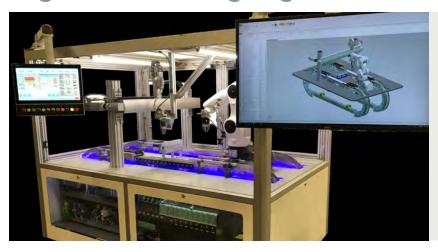


Digital Demo Highlights

















Enhance your experience

Access interactive content using the QR scans in this guide with your smartphone.



Search your device app store for "QR Free"







Production Planning

Siemens Production Digital Twin helps you convey your proposed concepts to your customers.

The same Digital Twin provides your customer the confidence the production system your machine is part of, will deliver the production rate required, at an effective cost.



- Deliver persuasive visual proposals, helping your customers envision your machines in their production
- Back up your proposals with a predictive simulation, providing your customer the confidence the production line your machine is part of, will deliver the through put required













Learn More



Design complete production layouts in a single system



Model and simulate production systems and their processes.



- Throughput increased by 40%
- Costs reduced by 30%

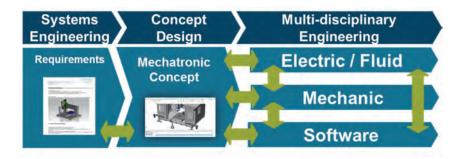
Machine Engineering

Accelerate development with the Product Digital Twin



Advanced machine engineering establishes a concurrent, multidisciplinary engineering platform, allowing the development of modular systems that

can be configured and confidently assembled to meet your customers' demands.



- Enable concurrent, multidisciplinary collaboration
- Optimize iterative system design and verification
- Capture and re-use institutional knowledge, configurations and best practices
- Achieve early concept and mechatronic validation













Siemens supports the development of industrial machines with a full suite of CAD/CAM/CAE solutions and the worlds most widely used PLM system.

Get the Digital Twin

STEP 1: Install the JT2Go free app for your device.







Andoid



Microsoft



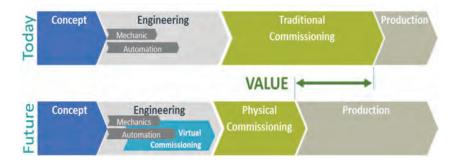
JT File

STEP 2: Scan this link to download the JT file.

STEP 3: Select "Open in JT2Go".

Machine Commissioning

Through the use of a Digital Twin a virtual representation of the machine can be used to reduce the commissioning time and accidents on site, evaluate different automation concepts in the early phase of a project, and even assist with advanced training for machine operators.



- Verify operation sequencing and improve quality via optimizing the controller programing and machine functionality in a virtual environment via a Digital Twin
- Reduce time to market via parallel operation of mechanical and automation engineering
- Reduced costs and scrappage because of reduced commissioning time with fewer faults













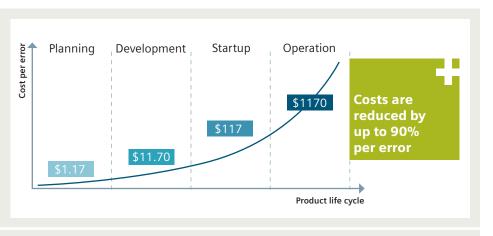












Six Sigma/Quality Rule of tens



Realize significant cost savings by identifying issues earlier

NX Mechatronics Concept Designer



TIA Portal and PLCSim Advanced



Machine Operation

Operate your machines in an efficient and transparent manner with Siemens Totally Integrated Automation components. Based on consistent data management, global standards, and uniform hardware and software interfaces, these shared characteristics minimize engineering time. The result: lower costs, reduced time to market, and greater flexibility.



S7-1500 Controller



- Reduce engineering development time with the TIA Portal One engineering framework for PLCs, HMIs, Drives, Safety, Remote I/O and Network configuration
- Increase machine through put for demanding applications with high performance S71500 controllers
- Comprehensive security concept protects your investment against unauthorized access



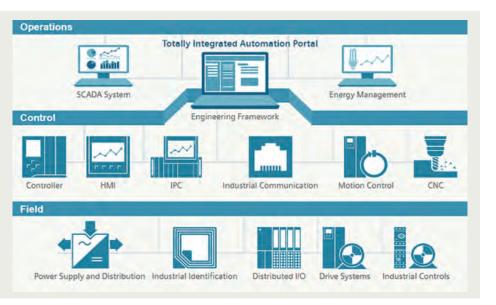












TIA Portal



Totally Integrated Automation



Machine Service

MindSphere, the cloud-based, open IoT operating system from Siemens enables industrial OEMs to link their machines and physical infrastructure to the digital world easily, quickly, and economically. They can harness data from virtually any number of intelligent connected devices, enterprise systems and databases to analyze and uncover transformational insights, enhance their offerings, and launch new business models.



- Optimize asset utilization, to ensure maximum uptime and availability
- Increase maintenance efficiencies, implementing predictive maintenance practices
- Boost operational visibility, with condition-based monitoring
- Leverage data transparency and centralized KPIs, for greater operational insights and accountability
- Make possible new machine capabilities, combining data analytics and asset fleet monitoring













Learn more about MindSphere and five critical ways it differs from other IoT solution specifically for Machine Builders.





3%

Siemens estimates that only three percent of the world's plant machines are fully monitored due to outdated infrastructure, limited digital electronics, or communications.

By connecting legacy or new industrial assets to MindSphere, OEMs can take advantage of how data drawn from the IoT will transform manufacturing.

Digital Enterprise Solutions

Siemens is the only company in the world that can offer the portfolio breadth of products and solutions enabling the Digital Enterprise.



- NX Line Designer
- Tecnomatix Plant Simulation
- Technomatix Process Simulation
- Teamcenter Manufacturing Planning



- NX CAD & MCD
- Tecnomatix Plant Simulation
- Teamcenter PLM Requirements Program, Costing, BOM and CAD Mgt.
- NX CAE



- NX Mechatronics Concept Designer
- TIA Portal
- PLCSim Advanced
- TIA Portal Openness



- TIA Portal
- Hardware S71500 PLCs, IPCs, HMIs, ET200 SP I/O, Drives
- Profinet Networking



- MindSphere IIOT Platform
- MindConnect
- Simatic MindApps

Digital Factory Product Portfolio

Factory Automation

Controllers

- Basic and Advanced controllers
- Safety Integrated Controllers, TUV approved
- Distributed Controllers
- Software controllers for PCbased Automation

PC-based Automation

- Industrial PCs Rack, Box, Panel
- Industrial Monitors and Thin Clients
- PC-based Controllers
- Embedded Controllers
- Embedded Bundles / Software Package

• Disributed I/O

- In-Cabinet, IP20
- Out-of-Cabinet, Machine Mount IP65/67



HMI Panels

- Standard/Outdoor/Stainless-Steel Panel
- Complete IP65-Protected Panel
- Mobile Panel
- Key Panels



Drives, Motors and Motion Control

Variable Speed Drive Technologies

- General Purpose Drives
- Vector and Servo Drives
- DC Drives
- Enclosed (Cabinet Drives)



Siemens PL



Siemens FA



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Siemens Industry, Inc. 100 Technology Dr. Alpharetta, GA 30005

For more information, please contact our Customer Support Center.

Phone: 1-800-241-4453

E-mail: info.hmi.us@siemens.com info.ipc.us@siemens.com

usa.siemens.com/digitalization

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