

Tecnomatix Plant Simulation

Student download

Plant Simulation discrete-event simulation modeling – helping prepare students to meet the manufacturing challenges of the future

Benefits

- Free annual license to production software used in industry
- Early job market preparation by learning industry-leading production simulation technology
- Networking opportunities through access to a global forum of users

Features

- Simulation of complex production systems and control strategies
- Object-oriented, hierarchical models encompassing business, logistic and production processes
- Dedicated application object libraries for fast and efficient modeling of typical scenarios
- Graphs and charts for analysis of throughput, resources and bottlenecks
- Comprehensive analysis tools, including automatic bottleneck detection, Sankey diagrams and Gantt charts
- 3D online visualization and animation
- Integrated experiment handling
- Automated optimization of system parameters

Summary

Tecnomatix® Plant Simulation software from Siemens PLM Software enables the simulation and optimization of production systems and processes. Using Plant Simulation, you can optimize material flow, resource utilization and logistics for all levels of operations planning from global production facilities through local plants to specific lines and processes. In times of increasing cost and time pressures in production, along with ongoing globalization, logistics has become a key factor in the success of a company. The need to deliver JIT/JIS (just-in-time/just-in-sequence), introduce Kanban, plan and build new production lines and manage global production networks requires objective decision criteria to help management evaluate and compare alternative approaches.



Plant Simulation helps create digital models of logistic systems (e.g., production) to explore the systems' characteristics and to optimize their performance. The digital model enables you to run experiments and "what-if" scenarios without disturbing an existing production system or – when used in the planning process – long before the real system is installed. Extensive analysis tools, statistics and charts let you evaluate different manufacturing scenarios and make fast, reliable decisions in the early stages of production planning.

TECNOMATIX

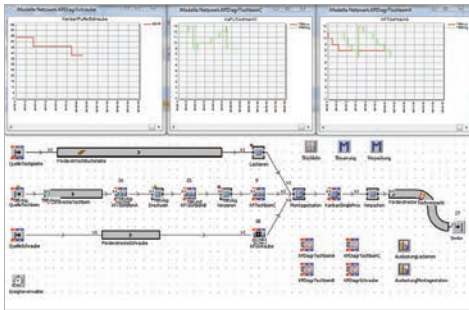
Answers for industry.

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Features *continued*

- Open system architecture supporting multiple interfaces and integration capacities (CAD, ODBC, XML, etc.)
- Interactive training materials and social media access to relevant content



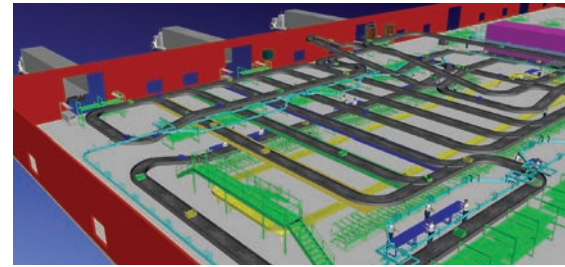
Demonstration of the different behavior of an assembly line once with a Push-control and then again with a Pull-control (Kanban) – Andreas Eiband, October 2011 Student Plant Simulation Contest Winner.

What is included

The Plant Simulation Student download contains the same core functionality used by leading engineers and leverages the software's powerful object-oriented architecture and modeling capabilities that enable you to create and maintain even highly complex systems, including advanced control mechanisms. Plant Simulation's user interface follows Microsoft Windows standards, making it easy for you to quickly become productive. Simulation models can be created quickly by using components from application object libraries dedicated to specific business processes. You can extend the library with your own objects through a powerful programming environment for the furthering of simulation capabilities. Tools for automatic optimization, analysis of simulation results and 3D visualization of simulation models are also available.

Training and support

There are a number of ways for you to learn how to use Plant Simulation. Included within the product are example models, demonstration videos, and an interactive tutorial that covers essential modeling and simulation, along with a step-by-step online help guide. These training tools are a perfect way for you to learn how to use the discrete-event simulation modeling techniques in Plant Simulation, to increase your productivity and gain the skills required by some of the world's leading engineering and product design companies.



By registering for the Plant Simulation Student download you will become part of a global user community. Siemens hosts dedicated channels on YouTube, Slideshare, Facebook, Twitter and other public social sites that include tips, current events and useful training materials.

Who it is for

The Plant Simulation Student download is available to any active student of any age who is attending any academic institution such as accredited universities, technical colleges, trade and high schools. You can create models up to 80 objects in size and utilize the Plant Simulation class libraries. The software is available only for the Windows platform. The duration of this offering is valid for one year, but can easily be extended with re-registration. Usage of Plant Simulation Student download is intended for academic course work, and files created in the Student download cannot be opened in commercial versions of Plant Simulation.

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