

Tecnomatix Plant Simulation for the high tech and electronics industry

Virtually build, test and optimize plants to find and fix production issues before they happen

Benefits

- Enhance productivity by 20 to 40 percent
- Reduce investment up to 20 percent
- Reduce work in progress up to 75 percent
- Cut throughput time up to 60 percent

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

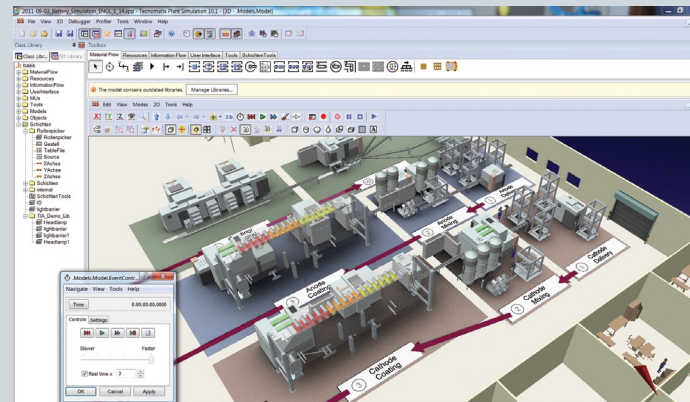
Summary

The high tech and electronics industry is rapidly growing, agile and global. Manufacturers face massive price pressure, extremely short product lifecycles and high numbers of variants. This requires ongoing changes in the production infrastructure. Tecnomatix® Plant Simulation software from Siemens PLM Software helps production managers and planners model, simulate, visualize, analyze and optimize complex production scenarios. It is critical to the return on your R&D investment that you be able to re-use intellectual property for new products.

Plant Simulation enables you to simulate and 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. With increasing cost and time pressures in production, along with ongoing globalization, logistics management has become a key factor for success.

Plant Simulation enables you to detect and eliminate problems early in the planning process that otherwise would have required costly and time-consuming

correction measures during actual production ramp-up. The software helps you minimize your investment in production lines without jeopardizing the required output. It also helps you optimize the performance of production systems by implementing measures that have been verified in a simulation environment prior to implementation.



Manufacturing optimization with Tecnomatix Plant Simulation enables you to optimize assembly plants to achieve successful product launches, reduce

TECNOMATIX

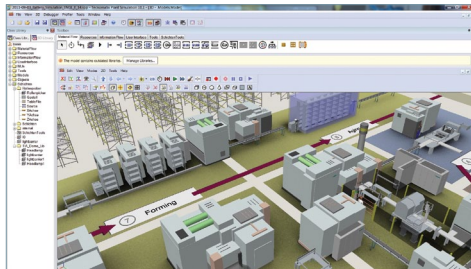
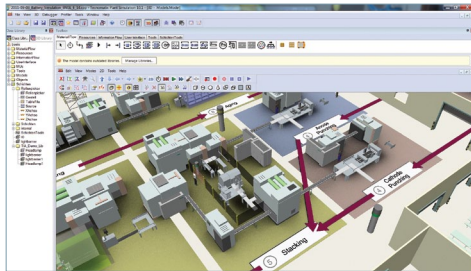
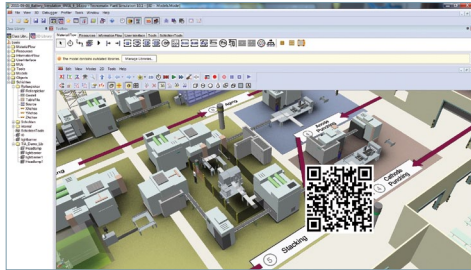
www.siemens.com/tecnomatix

SIEMENS

Tecnomatix Plant Simulation for the high tech and electronics industry

Features *continued*

- Open system architecture supporting multiple interfaces and integration capacities (ActiveX, CAD, Oracle SQL, ODBC, XML, Socket, OPC, etc.)



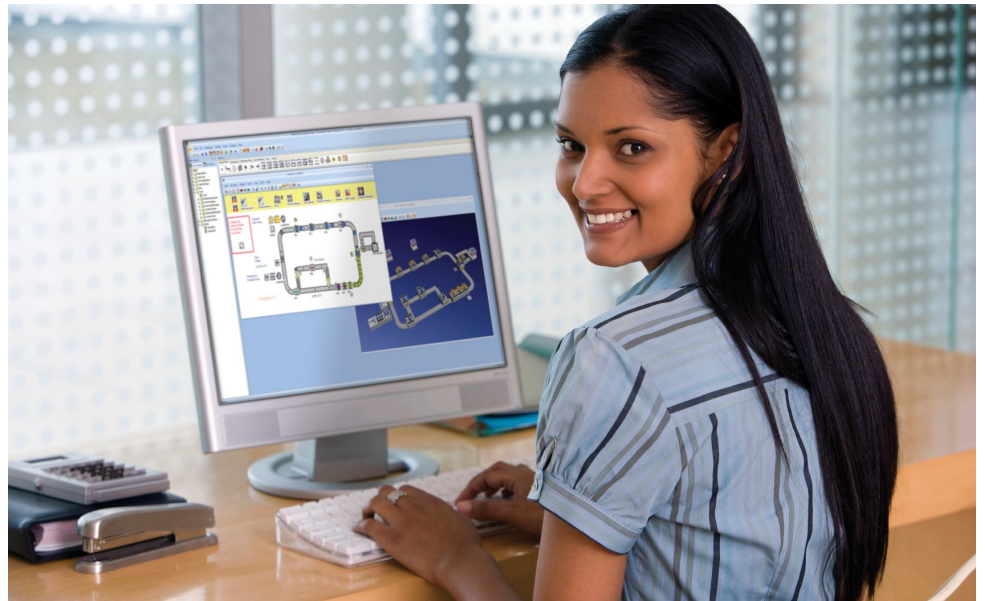
production ramp up and shorten time-to-market. Siemens PLM Software solutions make it possible to re-use existing production data and process information more effectively.

PC assembly can be simulated using Plant Simulation, including all resources such as personnel, machines, materials and transport systems. The goal is to check the feasibility of production plans generated by a production planning system. Production plan execution for each shift is optimized in a realistic manner that considers the current circumstances in the plant. Measures can be checked before they are carried out in practice. Plant Simulation helps to develop and verify new shift models, work organizations and other changes in production.

Plant Simulation in action: higher efficiency, faster throughput, reduced work in progress

A manufacturer of printed circuit board control units was producing parts in 35 variants. Before using Plant Simulation, the company was producing 1,380,000 parts every 1.8 days. After using Plant Simulation, they produced 1,400,000 parts every 1.3 days, a 40 percent improvement in efficiency. The plant enjoyed 29 percent faster throughput time – what used to take 40 hours can now be done in 31 hours.

What's more, the plant has reduced work in progress and capital burden. The average number of units in production before simulation was 120,000. After simulation, it was 85,000, a reduction of 42 percent.



Contact
Siemens Industry Software
Americas +1 800 498 5351
Europe +44 (0) 1276 702000
Asia-Pacific +852 2230 3333

www.siemens.com/plm

© 2012 Siemens Product Lifecycle Management Software Inc. All rights reserved. Siemens and the Siemens logo are registered trademarks of Siemens AG. D-Cubed, Femap, Geolus, GO PLM, I-deas, Insight, JT, NX, Parasolid, Solid Edge, Teamcenter, Tecnomatix and Velocity Series are trademarks or registered trademarks of Siemens Product Lifecycle Management Software Inc. or its subsidiaries in the United States and in other countries. All other logos, trademarks, registered trademarks or service marks used herein are the property of their respective holders.
X2 30714 6/12 B