

Web-based production planning

Speed and cost-efficiency can be decisive factors in competitive markets. A relentless product development and a constantly changing manufacturing landscape demand responsiveness from today's manufacturers.

Delfoi Planner enables customers to increase responsiveness, shorten lead-times, improve delivery accuracy and maximize capacity.

Delfoi Planner is a web-based capacity planning and scheduling solution. Delfoi Planner enables users to plan and analyze alternative production scenarios and deliver only the best scenarios into production. The web-based infrastructure enables all stakeholders to participate in decision making data available to all.

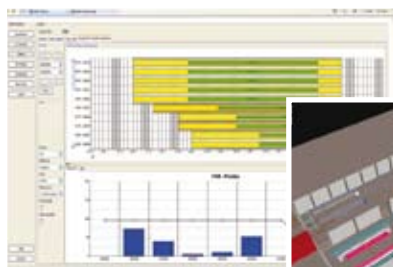
SOLUTION FOR CAPACITY PLANNING AND SCHEDULING

Traditional scheduling methods are frequently challenged by the complexity of modern production methods. ERP-systems' APS modules have failed to meet the expectations. This has led to a wild and uncontrolled use of external spreadsheets for detailed planning and analysis.

With Delfoi Planner new production scenarios can be developed and optimized in a virtual environment. Upcoming changes can be planned and tested well before a start-up with simulation. Typical benefits from implementing the Delfoi Planner include faster production ramp-ups and more efficient payback on investment in new capacity.

WITH DELFOI PLANNER YOU CAN

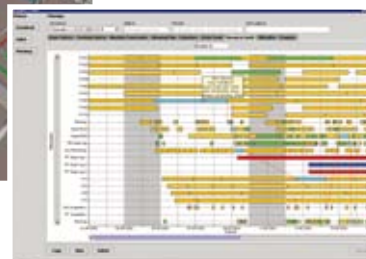
- Schedule production resources
- Maximize current and future capacity
- Decrease production lead-times
- Decrease work in process inventory
- Improve delivery accuracy
- Improve responsiveness to new product introductions and production changes
- Collaborate in real-time the production plans for the organization



PLAN



SIMULATE



ANALYZE & PUBLISH

DELFOI PLANNER®

CAPACITY PLANNING

In Delfoi Capacity Planner product demand forecast for new and existing products can be linked to bills of material, process routings and resource data.

The user can then easily create a comprehensive view of the requirements of the production capacity within the planning environment and its resource load in the whole supply chain. Capacity Planner is using infinite capacity model which can be used for new investment calculations.

Through the web-based architecture plans are immediately available to those who need them. Up-to-date information on current production, orders and future capacity requirements are always available to support decision making.

PRODUCTION SCHEDULING

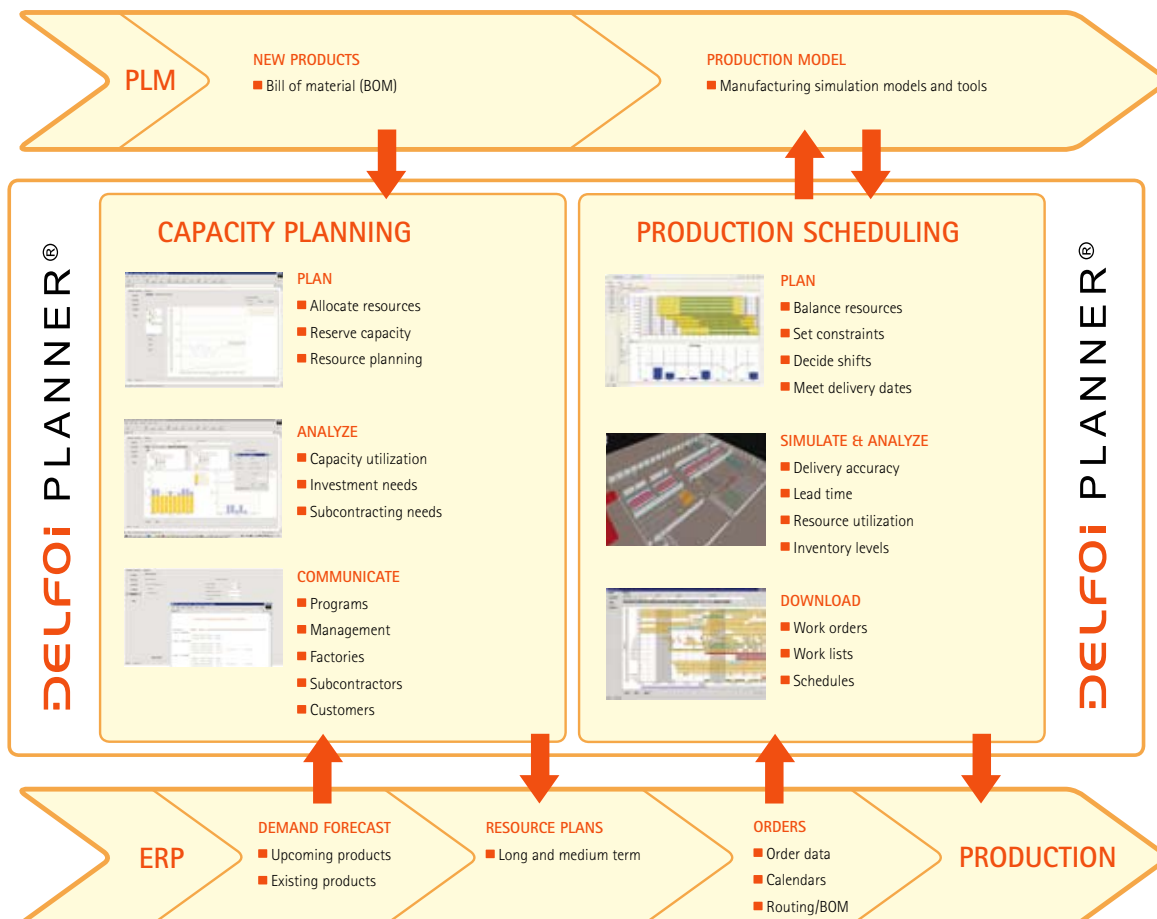
In Delfoi's simulation based scheduling solution the user starts the planning by uploading the current production status and new orders through the Delfoi Planner interface.

The user can quickly visualize and modify orders or resource model according to the pre-defined settings. The user can then make a roughcut capacity analysis based on an infinite capacity model. Orders and resource limitations can be modified to meet the rough balance of the resources. As soon as the user is satisfied with the rough plan the planned scenario can then be scheduled with the capacity limited simulation based on the finite scheduling model.

The resulting production schedule can be examined using a variety of visual and numerical reports. Multiple scenarios can also be developed and compared to each other.

The best production schedule can then be published with relevant delivery dates, starting and finishing times, work orders and routings.

Production planning



OPERATION DEVELOPMENT WITH SIMULATION

Delfoi is using discrete-event simulation tool in its process and production development. New production strategies, impact of new products and modified production can be tested well beforehand by using simulation. Delfoi Planner enables customers to bring the power of simulation to daily business activities and decisions.

Same simulation model can then be further used in an operative environment by integrating it to Delfoi Planner. This enables faster and tested ramp-up of simulated changes to operations.

Delfoi Planner offers a virtual training environment for production and operations. Vital experience and learning can be achieved using the visual simulation model instead of the actual factory.

DELFOI PLANNER BENEFITS

Easy-to-use

Easy-to-use and graphical drag&drop user-interface enable faster planning and shorter user learning.

Simulation capability

Planning database enables simulation and comparison of multiple scenarios before execution. Integrated simulation model provides accurate analysis of alternative scenarios.

Web-based architecture

Web-based architecture enables low cost of ownership with easy client and user support and real-time collaboration of the plans. Web 2.0 reporting and execution user interface provides fast and easy access to work orders and reports.

Integrability

Standard J2EE-architecture provides flexibility and integration capabilities through SOA and web service interfaces. In simple integrations XML-format is supported.

Production scheduling flow



DELFOI

IT WILL BE

SOLUTIONS FOR PRODUCTION AND PROCESS PLANNING

Delfoi is a solution and service provider for industry and healthcare sectors. Our mission is to help our customers to improve dramatically their operational efficiency.

- Our process planning solutions and services improve manufacturability, cost efficiency and faster ramp-up of new products or production changes.
- Our production planning solutions and services help our customers to cut production lead times, increase responsiveness, improve delivery accuracy and maximize capacity and resource utilization.

DELFOI PLANNER® SOLUTIONS

- Production planning and finite scheduling
- Capacity and resource planning
- Production management training
- Healthcare operations planning and scheduling
- Maintenance planning and scheduling

DELFOI SERVICES

- Operations development and consultancy
- Production simulation and planning
- Manufacturing process planning and simulation
- Assembly and ergonomics simulations
- Robotics simulation and off-line programming
- Flexible fixture design
- Integration of information systems
- Training and customer adaption services

DELFOI develops, markets and supports Digital Manufacturing solutions and related consulting and integration services for the Product and Process Lifecycle (PLM). DELFOI's solutions and services enable our customers to speed up and streamline their product creation and product delivery processes.

Delfoi has supplied over 600 systems in 18 years to its customers, such as ABB, Boeing, BAE, Daimler, KONE, Metso, Nokia, Patria, Rautaruukki, Saab, Scania, Wärtsilä and Volvo and many of their subcontractors. Delfoi headquarters is located in Espoo with offices also in Tampere and Göteborg.

Delfoi has partners in USA, Asia and Europe. More information of Delfoi and Delfoi solution resellers is presented in www.delfoi.com

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