

PRODUCTION PLANNING



Production planning

The PowerPlan module, which works according to the MRP II methodology, is used for production planning. It works with automatic data input from the ERP system and is linked to the BOM to any arbitrary subassembly level. It provides outputs for specific production centres. The feedback introduced from the Production Check-off module is used for refinement. Production planning is based upon exactitude of the production process of the individual tasks and standardized production times. Material requirements are determined on the basis of a bill of materials (BOM) and can be linked to the inventory management system. This can be done either directly in the ERP or by booking available material in an external warehouse module.

The production preparation includes:

Technological preparation of production creates:

- » Time consumption standards for individual production operations
- » Structured BOMs
- » Technological procedure
- » Operations catalogue
- » Processed material

The module includes technical documentation that is linked to the document management system.

Workshop planning supports the creation of production documentation:

- » Production plans
- » Lists of hand-overs
- » Production order
- » Material request form

Performs scheduling to production and creates work queues. It also records information on the current status of order processing, production capacity and order status. Performs archiving of production procedures and ensures traceability of operations.

Operative planning

This module is based on data taken from ERP; taking into account the current status and capabilities of production, material and human resources, temporal availability of machines, inventory and production equipment. It allows making unplanned interventions in the course of the production process. By visualizing the status of individual orders in the production centres it allows a reaction optimal to sudden changes in production with regard to the results of order execution. A key link is the connection with the BOM to any arbitrary subassembly level and the connection to the inventory management system. It includes feedback from the Production Deployment module and a link to the production procedures of individual tasks for adjustments to standardized production times. Material requirements are determined on a BOM basis per job with the ability to link the requirements with the inventory management system either directly in the ERP source or an external warehouse module.

Effective feedback from Production Check-off:

- » Employees log into the system using the terminal at their workplace
- » The system processes the data on the immediate status of order processing
- » Outputs (reports) on production capacities and order statuses are provided
- » With the connection to the maintenance system, information on production capacities is always up-to-date
- » All editing steps are archived - traceability of performed operations is thus ensured

The PowerPlan module is capable of automatically importing the necessary input data from third party information systems (from the user's existing ERP: information on sales orders, changes in warehouse levels, human resources). This enables a quick response to planning/re-planning needs that can be carried out virtually in real time. The user, a production planning specialist, has an intuitive tool to make decisions about the production mix, set priorities and monitor the progress of production plans.

