



MASTER PRODUCTION SCHEDULING

WORLDWIDE BUSINESS SOLUTIONS

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System21 Master Production Scheduling allows planners to create and manipulate production and purchasing plans.

System21 manufacturing supports process, repetitive, discrete or any hybrid of the three production methods in a single, mixed mode or concurrent manufacturing environment. It allows you to choose the most appropriate methods for different parts of your business. Process methods can be mixed with true schedule driven repetitive and discrete small batch methods as needed, giving the right solution for the right situation at all times.

System21 manufacturing supports every level of the production process, from strategic planning to detailed control. It provides accurate and flexible reporting, production and product definition, timely planning and scheduling, with precise execution and control.

By supporting best manufacturing practices, such as JIT, TQM and continuous improvement programs, System21 allows businesses to reduce inventories and working capital, and improve productivity and efficiency, resulting in real bottom line benefits.

System21 Master Production Scheduling allows planners to create and manipulate production and purchasing plans. Multiple plans can be held simultaneously for different enterprise modules – for each production site, business unit or company. Independent demand can be accepted from Advanced Sales Order Processing, Forecasting and Advanced Customer Scheduling, as well as from manually maintained forecasts to give complete demand flexibility at item/facility level.

Master Production Scheduling (MPS) can be run at any time, allowing the facility to be used when required, not just when there is a dedicated computer resource available.

KEY FEATURE/BENEFITS

- integrated with other System21 applications
- supports multiple companies, business entities and production facilities, giving complete flexibility for live production planning and feasibility planning and modeling from production line to enterprise level
- can be used in discrete, repetitive and process flow environments
- resolves supply and demand on a daily basis with flexible reporting horizons



BY SUPPORTING BEST MANUFACTURING PRACTICES, SUCH AS JIT, TQM AND CONTINUOUS IMPROVEMENT PROGRAMS, SYSTEM21 ALLOWS BUSINESSES TO REDUCE INVENTORIES AND WORKING CAPITAL, AND IMPROVE PRODUCTIVITY AND EFFICIENCY, RESULTING IN REAL BOTTOM LINE BENEFITS.

- flexible demand policies, defined at item/production facility level, enable demand to be any combination of sales orders, production orders, intra-company orders, customer schedules, internal and external forecasts
- annual or periodic sales and stock forecasts (by quantity or value) can be spread over time and profiled for seasonal demand management
- item demand can be smoothed to ensure level production loading
- planning horizons and time fences can be defined wither globally or by item/facility
- time fences can be defined to freeze production plans to production stability
- planning filters can be used to rationalize MPS suggestions, with an additional option to model MPS exceptions, allowing planners to maintain production stability whilst ensuring optimal customer service
- MPS recommendations can be implemented interactively or in batch mode
- MPS recognizes both primary and concurrent co-product planning
- MPS takes account of all item attributes, such as component shelf life, potency, stock run-out and replace policies, material shrinkage and safety stock levels
- MPS is multi-level with user defined level breaks, while fully cascading re-scheduling logic shows the impact of higher level recommendations
- suggested production orders and schedules can be confirmed individually or by a start date range
- pegging details show which items are generating demand
- purchase and production orders for the same item can be planned while integration with Purchase requisition allows requisitions and orders to be raised
- rough cut MPS line planning analysis shows sequenced schedules by workstation indicating over and under loading
- MPS can be valued using either standard or user-defined cost sets giving valuable information to
- aid decision making.



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