Sage ERP X3
Manufacturing

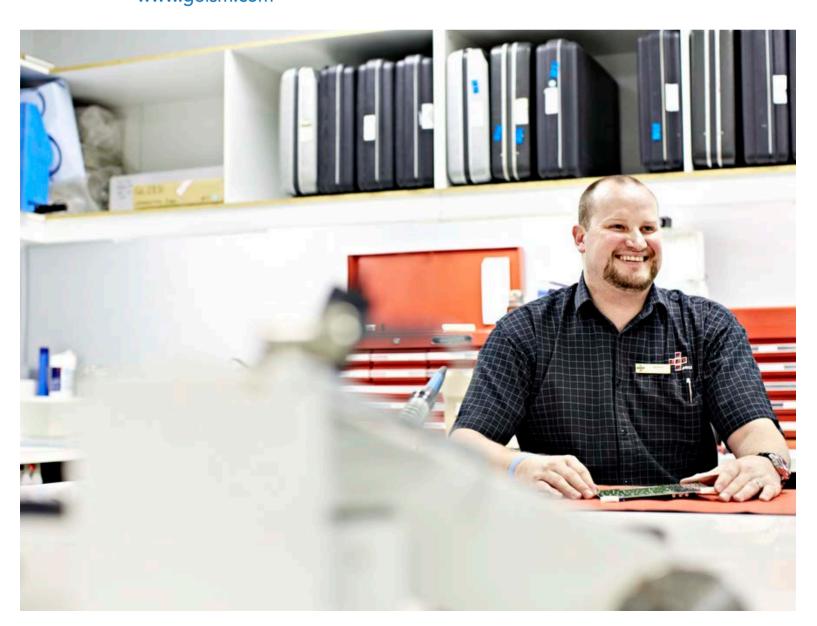sage

ISM

877-496-5350

sales@goism.com

www.goism.com

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Manufacturing

Sage ERP X3 offers a choice of production management methods—by job, order, or inventory. Technical data can be defined by price lists, cost centers, and stations as well as a production process sheet management function.

Sage ERP X3 provides for monitoring of stock quantities, a management control function with calculation of forecast and actual costs, a finite capacity production scheduling function, a planning function incorporating a production coordination program, calculation of net requirements, and an overall production management function. Various performance indicators are available, ensuring optimum industrial production quality and traceability.

Comprehensive Technical Data

Sage ERP X3 provides a common repository for sharing detailed product information across sales, purchasing, inventory, and production. Various material tracking modes are supported by associating products with unique control attributes such as lot numbers, expiration dates, and QC technical sheets.

Sage ERP X3 supports multilevel bills of material and usage controls for distinguishing prototypes, engineering bills, production BOMs, and sales kits. BOM usage is also controlled by validity dates and production quantities, which can be by unit, lot for lot, 100- or 1,000-unit batches, or fixed quantities. Work and cost centers can be associated with machine and labor cost dimensions, resources, and factory calendars.

A product can have multiple routings for manufacturing and subcontracting operations. BOMs can be associated with special routings that perform JIT material allocations when necessary. Routing operations are assigned fixed and variable setup and run times and can accommodate forward and backward scheduling. Alternate work centers and material and labor resources can be identified to handle overload situations. Technical sheets can be associated with routing operations to support manufacturing quality control.

Cost Accounting

Sage ERP X3 supports the ability to establish an annual standard cost, perform standard cost revisions, calculate multiple simulated standard costs with user-defined parameters, and develop cost budgets for planning standard costs for future periods. Costs can be attributed to materials, machines, labor, subcontracting, and overhead. Variances can be calculated on any two costs of the same type or between two costs of different types.

Planning

Multisite MPS for medium-to-long-term planning needs includes features for performing budget analyses and feasibility simulations. It also calculates net multisite requirements, generates replanning messages, and analyzes the impact of load demands. MPS makes best use of user-defined reordering parameters such as fixed period coverage, seasonality patterns, and net reorder quantities. The planning horizon is user-defined with allowances for up to five years.

Sage ERP X3 supports finite and infinite capacity requirements planning. Finite capacity planning can be done automatically by using a powerful, integrated optimization facility that helps resolve bottleneck areas according to user-defined constraints.

Material planners can use an interactive drag-and-drop scheduling tool—in GANTT format—for manual viewing, simulation, and updating of outstanding work orders and routing operations. The capacity planning capabilities in Sage ERP X3 provide an ideal tool for planners to compare loads on work centers imposed by existing and proposed work orders, taking into consideration the associated capacity of each work center and work order due dates.

Work Order Release

Sage ERP X3 provides flexible work order release management capabilities, allowing multiple items per production order and real-time material, machine, and labor allocations with reason codes. Work-in-process tracking, production status reporting, and a breakdown of actual production costs by shop traveler are also provided. Sage ERP X3 supports the ability to do rate-based scheduling with backflushing.

Decision-Making Tools

Sage ERP X3 provides material planners with an array of screens and reports in quantified form or pie charts, bar charts, and graphs to assist in making meaningful material and capacity decisions. Included are multisite MPS charts for product families, MRP schedules for products at single or multiple sites, bottleneck work center charts, and a planner's workbench. Time-phased pegging ties requirements back to original demand sources. Sage ERP X3 calculates a variety of performance indicators including material, operation and production yield, capacity, and resource utilization rates.

For a detailed listing of manufacturing functionality available through Sage ERP X3 please reference the Sage ERP X3 Solution-In-Detail.

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