Production

Production in Microsoft Dynamics AX 2009

BENEFITS

- **Manage production in a demand-driven environment.** View real-time, integrated work in progress (WIP) with actual costs; make adjustments to avoid potential delays or cost overruns; and streamline inventory management based on demand and forecasting.

- **Anticipate and reduce bottlenecks.** Gain tight control over every aspect of the production floor with bottleneck scheduling. Quickly view processes and work utilization as a whole with a Gantt chart and use drag-and-drop rescheduling to minimize delays.

- **Gain deep insight across the supply chain.** With visibility throughout the entire supply chain, you can streamline business processes, optimize resources, minimize lead times, and identify accurate delivery dates.

- **Improve control of production processes.** Define manufacturing resources, including machines, people, tools, and subcontractors, and allocate them to work center groups. Tightly control schedules by using finite or infinite capacity scheduling for maximum flexibility.

Reduce time to market and respond quickly to changing customer demands with Production in Microsoft Dynamics® AX. Real-time insight into business and supply chain information—including inventory, warehouse, and production—helps you optimize production flow by planning effectively, maximizing resource utilization, driving accurate delivery performance, and streamlining business processes.

With Production in Microsoft Dynamics AX, your people can plan production to meet exacting schedules and delivery demands. Track inventory levels and plan delivery routing with flexibility and control. Access logistics, trade, and customer relationship management (CRM) data to plan orders for purchase, production, and transfer, and help minimize inventory levels, meet customer requirements, and provide reliable promises for delivery. Plan production sites using multi-site capabilities to maintain various production units for planning and execution.

Role Center for the Production Manager

Detailed report

Enhance process efficiencies with specialized Role Centers that help organize relevant tasks, information, and tools in a personalized view so people can manage their work easily. People on the shop floor can access real-time, detailed information, including time used and the raw materials consumed for individual jobs or operations. Production managers can easily gain the business insight they need using business analytics, including detailed reports for lead time, defect ratio, capacity utilization, and planned versus actual consumption.

Microsoft Dynamics AX

FEATURES

ADVANCED MANAGEMENT	**Production BOM**	• Copy a standard bill of material (BOM) to a production order and modify it as needed. • Support negative quantities and control each item within BOM lines. • Define the nature of the BOM line by the line type item, such as sub-production, phantom, subcontract, or normal item. • Maintain a company default BOM or a site-specific BOM for multiple sites.
	Production order management	• Create production orders manually, through Master Planning, or from a sales order line. • View, track, split, roll back, or categorize orders into pools. • Purchase services directly from subcontractors. • Schedule forward for delivery as soon as possible; schedule backward to deliver on the latest possible delivery date.
	Production tracking and reporting	• Update WIP and actual costs to the general ledger for an up-to-date picture of where products are in the production process. • Automatically generate and post report consumption.
	Forecast scheduling and master planning	• Optimize production and materials planning and scheduling. • Conduct finite materials and capacity scheduling simultaneously. • Calculate reliable available-to-promise (ATP) and capable-to-promise (CTP) deliveries, tie quotations to planning materials, break down a BOM item, and determine the earliest possible delivery date based on route and incoming items.
ADVANCED MANAGEMENT ENTERPRISE	**Routing management**	• Plan simple, sequential, and complex networks; use simultaneous routes in the same network. • Designate a work center as a subcontractor. • Create finite or infinite scheduling, forward and backward from various dates. • Use rough-cut capacity and detailed scheduling capabilities. • Calculate expected waste per operation as a percentage. • Organize the shop floor in logical production units at the individual sites. • Define resources and processes for site-specific routing.
	Scheduling	• Quickly reschedule jobs and simulate possibilities by dragging items in the Gantt chart. • Identify production bottlenecks and reschedule the remaining route; use alternative work centers for an operation in case of scheduling overloads. • Schedule operations with the same property back-to-back.
	Cost tracking	• Track detailed costs for resources and throughput, including work center costs.
	Job monitoring	• Track multiple job types, such as setup, transfer overlap, queue time or the process job per operation. • Report resource consumption based on the job number. • Check future and current capacity loads for potential bottlenecks and automatically reschedule the route to show new capacity loads.
	Product Builder	• Configure customized products and obtain accurate pricing and delivery dates. • Set price amounts based on choice of variables from product models; calculations can be fixed amount, percentage, or programmed per variable. • Set default routes or validation routes and job cards for single and group variables, with the ability to create more complex rules and formulas. • Configure Product Builder using Enterprise Portal in Microsoft Dynamics AX.
	Shop floor management	• Reduce manual data entry with automated employee time and attendance. • Register products, resources, and items for project activity, operations, and jobs. • Generate and export payroll data, from hourly rates to premiums and benefits.

Features are organized by Business Ready Licensing edition. Actual editions may vary at the time of licensing.

For more information about Production in Microsoft Dynamics AX, visit
www.microsoft.com/dynamics/ax.

Microsoft