BENEFITS:

- Minimize lead times and satisfy customer demand with flexible scheduling options
- Control the utilization of your manufacturing resources for optimum performance
- Track production progress and easily make changes to increase production efficiency and reduce costs
- **Production in Microsoft Dynamics AX comprises** three modules: Production I, which includes basic production functionality for handling material flow; Production II, which allows you to plan and execute routes, operations and rough capacity planning; and Production III, which includes Gantt chart scheduling functionality. job management and detailed production scheduling.

Microsoft Dynamics AX

Production in Microsoft Dynamics™ AX gives you real-time insight into your manufacturing processes to help increase both your production efficiency and profitability, while helping to reduce your overall costs.

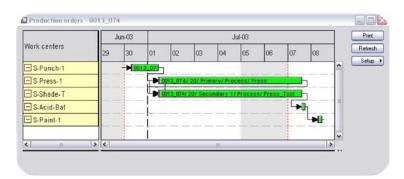
Flexibly manage your manufacturing resources

Production in Microsoft Dynamics AX can give you the flexibility you need to achieve maximum profitability from your manufacturing resources. Production orders can be created independent of or on the basis of proposals from master scheduling, and Production in Microsoft Dynamics AX helps you manage bills of material (BOMs) efficiently. You can get a quick and reliable overview of the manufacturing resources required to meet customer demand by performing rough capacity scheduling, taking both finite or infinite capacity and materials scheduling into consideration. You also get the flexibility to schedule production processes backwards or forwards from any date.

Optimize your production flow

You can define your manufacturing resources, including machines, employees, tools or even sub-contractors as work centers and allocate them to work center groups. Scheduling can be performed at different levels of detail: operations scheduling for work center groups and job scheduling for individual work centers. You can achieve maximum scheduling flexibility by determining whether finite or infinite capacity should be used for each work center or work center group.

Detailed capacity scheduling can determine the "best fit" between a work center and a specific operation and automatically selects the work center with the shortest lead time. Reduce time spent waiting for the availability of a work center with the option of selecting the "next best" alternative.



Use the Gantt chart scheduling functionality to gain realtime insight into your production flow.



Increase your production efficiency

Minimize lead times by creating cross-group links between resources that can handle the same task to help ensure the most efficient scheduling. You can also reduce setup time by using properties to ensure that operations that require the same work center setup are scheduled concurrently. Advanced facilities for sequence and bottleneck scheduling are provided, which can reduce setup times and make tight, controlled plans on the bottleneck. Production in Microsoft Dynamics AX helps complete sub-contracting for full or partial production orders by utilizing material flow and planning.

Get real-time insight into production

Production in Microsoft Dynamics AX gives you visibility into all the information you need to efficiently manage your production processes, including planned production orders, production start times, capacity loadings, delivery dates and materials availability. Detailed job monitoring gives you a clear overview of individual work centers' activities during the course of the day, so that you can assess production performance to schedule.

The job scheduling Gantt chart gives you a real-time, graphical overview of your production schedule so you can make tactical, day-to-day changes that optimize production flow. You can use the Gantt chart to easily schedule changes both within and between different work and machine centers by using simple drag and drop functionality, and see the consequences of your changes on the production floor in realtime.

Improve performance with flexible routings

Choose the best route for an operation on any given day. You can set up and maintain different routing versions, including network routes that help you avoid bottlenecks and maximize production efficiency. You also have the flexibility to have routes assigned automatically (using date and/or quantity) by the system, or you can choose to select them manually.

Production in Microsoft Dynamics AX provides you a variety of information about the operations that make up your production routes, including an overview of the work centers used and the queue time, setup time, run time and transport time required for each operation. You can also specify the amount of scrap and calculate the time that is expected to be used at each operation.

Monitor production costs with ease

Production in Microsoft Dynamics AX lets you choose flexible options for recording capacity and materials consumption. You can record consumption and costs prior to production in a forward manner using base data, or record actual consumption during production. Consumption and production costs are automatically posted into the general ledger, which cuts down on manual data entry and quickly enables you to compare actual and estimated production costs.

FEATURES

Module: Production I

Creation of production orders	 Manual creation of production orders Create production orders through planned production orders in Master planning Create production orders directly from a sales order line
Production orders	 Production groups – provide categorization for posting to the general ledger Production pools – allow production orders to be grouped for scheduling Quick overview of the status of the production order Tracking actual production costs against estimated A production order can be split into two or more orders
Subcontracting	 Purchase of services from subcontractors Vendor delivery note Vendor account and warehouse Link sub-contractor purchase orders to the production order
Production Bill of Materials	 Standard BOM is copied to Production order, from where it can be modified, if needed Supports Measurement formulas to calculate consumption Supports negative quantity on BOM lines to handle by-products of production
BOM line type	Each item within a BOM can be controlled by a line-type. A given item can be handled as: Sub-production Phantom BOM Subcontract Normal item
Scheduling	 Production scheduling can be done forward or backward with different dates as starting points based on lead time of raw material Finite or infinite material and capacity scheduling
Production status	A production order goes through the following steps: Created Estimated Scheduled Released Started Report as finished Costed
Production status control	The production order can be rolled back and deleted if required until the costed stage
Financial integration	On-line updating of WIP (items in process and work centers in process) and actual cost to the general ledger when updated in Production
Production consumption	 All consumption is reported through journals. Journals can be automatically generated and/or posted. Support for pre-deduct and post-deduct of item and resource consumption Scrap can be handled either as a constant or a variable
Module: Production II	
Multiple route versions	 Can allocate more than one route attached to a particular item Approval procedure of routes Default route Routes controlled by date and/or quantity range

Multiple BOM versions	 Can allocate more than one BOM attached to a particular item Approval procedure of BOMs Default BOM BOMs controlled by date and/or quantity range
Route complexity	 Simple route (sequential) Complex route (route network) Simultaneous operations in route network Use of primary and secondary operation in a route Multiple work centers attached to the same operation Allocate a work center as a subcontractor
Route simplicity	Share route information between items belonging to same item group
Scheduling	 Forwards and backwards from various dates Finite or infinite scheduling Rough cut capacity planning
Production release	 Status between scheduled and started Control print of route card and route jobs
Ledger integration	Online update of WIP (items in process and work centers in process) in the general ledger when posting transactions or cost updating the production
Operation components	 Queue time before operation Set-up time Run time Transit time Queue time after operation Overlap quantity Cost categories Control multiple resources Capacity load per operation
Scrap calculations	Calculate expected waste per operation as a percentage
Shop floor print outs	 Route card Job card Print job list per work center
Cost tracking	 Detailed tracking of cost related to resources and throughput Include work center costs in production cost estimation Ability to use automatic work center consumption when starting or finishing productions
Module: Production III	
Gantt chart	 Graphical presentation of a production schedule Enables rescheduling by dragging and dropping
Task group	 Use of alternative work centers for an operation in case of scheduling overloads Basic rules for which alternative work centers can be used
Bottleneck scheduling	Rescheduling can be centered on a known bottleneck
Job monitoring	 Ability to track the setup job or the process job per operation Report resource consumption based on job number
Scheduling properties	Schedule operations that require the same work center setup concurrently

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

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