

Microsoft® Business Solutions–Axapta® Production gives you real-time insight into your manufacturing processes to help you increase production efficiency and reduce costs.

Key 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

Microsoft Business Solutions-Axapta Production enables you to flexibly manage your manufacturing processes for increased profitability.

Production 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 Axapta is an all-in-one solution that gives you real-time connectivity across your business. The Production modules exchange information with many other functional areas in the solution including Logistics, Master Planning and Financial Management to improve your overall business performance.

Flexibly manage your manufacturing resources

You have 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 Microsoft Axapta Production enables efficient management of bills of material (BOM). 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 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.

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.

Get real-time insight into production

With Microsoft Axapta production, you have visibility into all the information you need to efficiently manage your production processes, which include 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. Schedule changes both within and between different work and machine centers easily by using simple drag and drop functionality, and visually see the consequences of your changes on the production floor.

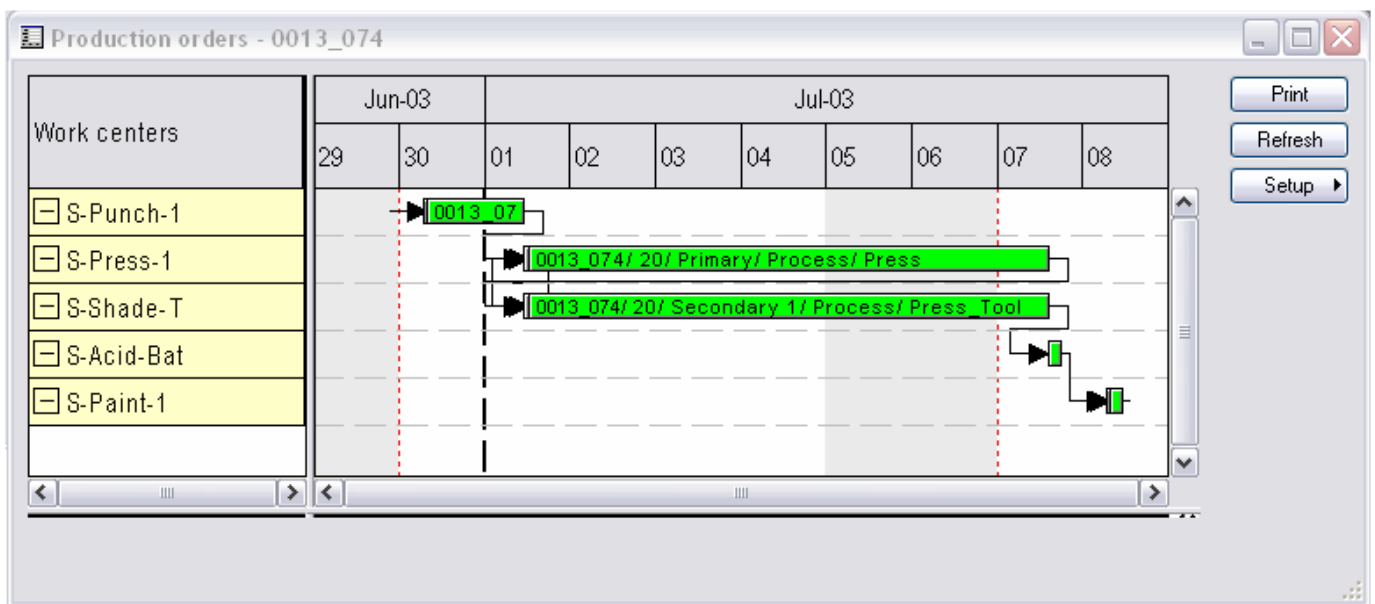
Improve performance with flexible routings

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 define that routes are assigned automatically by the system or are selected manually.

Microsoft Axapta Production gives you access to a variety of information about the operations that make up your production routes. This includes 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

Receive flexible options for recording capacity and



Use the Gantt scheduling functionality to get insight into the production flow.

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.

Part of a total solution

Microsoft Axapta Production is part of Microsoft Business Solutions-Axapta, a customizable, scalable and global Enterprise Resource Planning (ERP) solution that supports connectivity with your business community and provides you with a fast and powerful way to gain competitive advantage.

For more information about Microsoft Axapta

To learn more about Microsoft Axapta, contact your local Microsoft Business Solutions office or Microsoft Certified Business Solutions Partner, using the following Web address. They have the expertise to meet your specific business needs.

About Microsoft Business Solutions

Microsoft Business Solutions, a division of Microsoft, offers a wide range of integrated, end-to-end business applications and services designed to help small, midmarket and corporate businesses become more connected with customers, employees, partners and suppliers. Microsoft Business Solutions' applications optimize strategic business processes across financial management, analytics, human resources management, project management, customer relationship management, field service management, supply chain management, e-commerce, manufacturing and retail management. The applications are designed to provide insight to help customers achieve business success. More information about Microsoft Business Solutions can be found at www.microsoft.com/BusinessSolutions.

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Module: Production I

Key Features	Description
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 divided into two or more orders
SUBCONTRACTING	Purchase of services from subcontractors 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 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. Supports backward flushing of items. Scrap can be handled either as a constant or a variable

Module: Production II

Key Features	Description
MULTIPLE ROUTE VERSIONS	Can allocate more than one route attached to a particular item Approval procedure of routes Default route Routes controlled by date 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	<ul style="list-style-type: none"> • 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

Key Features	Description
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.

System Requirements

TO OBTAIN ALL OF THE FEATURES MENTIONED IN THIS FACT SHEET, THE FOLLOWING MODULES AND TECHNOLOGIES ARE REQUIRED:	<p>Microsoft Business Solutions–Axapta 3.0</p> <p>Microsoft Business Solutions–Axapta Logistics</p> <p>Microsoft Business Solutions–Axapta Resources</p> <p>Microsoft Business Solutions–Axapta Master Planning</p> <p>Microsoft Business Solutions–Axapta Production I, II and III</p>
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