Microsoft® Navision Axapta®

Microsoft Navision Axapta Production II

The Microsoft Navision Production II module introduces the concept of routing management, which allows resources to be deployed more efficiently.

Key Benefits:

- Choose the best route for an operation on a given day
- Control resource utilization – make sure a resource is available when you need it
- Get a complete overview of the current status in your production environment

Key Features:

- Flexible routing with simple or complex routes
- Manage primary and secondary operations
- Production progress and overview

The Microsoft Navision Axapta Production series allows manufacturers to manage the entire production process from availability of raw materials to the shipment of finished goods to customers. Designed for companies that use make-to-stock and/or make-to-order production, the Production II solution builds on the capabilities provided by the Axapta Production I solution.

The Production series is divided into the following three modules:

- Production I – includes basic production functionality for handling the material flow from suppliers, through production, to customers.
- Production II – lets you plan and execute routes, operations and rough capacity planning.
- Production III – includes operation management and detailed production scheduling.

Part of an integrated enterprise solution

When the three modules in the Production series are combined with the Axapta Work Center functionality, you can leverage the full benefit of a comprehensive production management solution. Additionally, you can benefit from the fact that the Production Series expands on the foundation of the Financial, Trade, Logistics and Master Planning functionality.

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The Work Center's functionality is contained in the Resource module, and supports Production II as well as the Project module. This means resources are shared between the Production and Project series, which prevents double booking of resources when scheduling.

Set up and maintenance of routes in Axapta

Routes

A business can produce 10,000 different items, but when you look at their production facility, there might only be 500 different routes, or ways the raw material can go though the different work centers and processes in the factory.

To combat this problem, the Axapta Production II solution lets you use one production route for several items. This is also useful when an item can be produced using two different routes, giving you the flexibility of deciding which route to use, depending on the circumstances. For example, you may choose to use one route for large productions, and another one for smaller ones.

A route can also be chosen automatically based on the dates you set or entered manually at the time the production is created.

Routes can be built as networks with more than one starting point, which facilitates working with simple, flat bills of materials.

Operations

Routes consist of Operations, which describe a process or task required to complete the production of an item. Operations in Axapta are your source for a variety of information, such as the work centers used, queue time, setup time, run time and transport time.

The Production II solution gives you the ability to easily manage primary and secondary operations by taking work center constraints into consideration. This helps you ensure that all resources required for an operation are available at the same time.

You have the ability to specify the amount of scrap expected from an operation. Additionally, the amount of time an operation should require can be calculated based on work center capacity.

Finite or infinite capacity scheduling

The Axapta Production II solution has sophisticated built-in, rough capacity scheduling functionality.

Productions can be scheduled forwards or backwards, while taking finite or infinite capacity into consideration. Capacity can be reserved on work center groups, or on specific work centers, and load percentages can be managed, which means that one person can manage several productions at the same time.

Cost estimation, release and production startup

The Production Cost Estimation feature is extended to handle work center costs. This added functionality gives you more details and greater accuracy in your production cost estimations.

Productions can be released to the factory floor with a variety of printed shop floor documents, for example, route cards, to provide you with even greater controls over the production process.

When starting productions, resource consumption can be drawn automatically and accurately posted as RIP in the general ledger, saving time and eliminating the "human error" factor.

Production progress and overview

Production plans can be continuously updated with the latest production results by reporting production progress in journals, and then updating the current production plan. This gives your business the most complete overview of the current status in the production environment.

Work Center functionality for Production II

The Axapta Work Center Series gives you the ability to define, maintain and monitor work centers or resources.

The following describes key functionality in the Work Center solution for the Production II Series.

Resources and groups

Using the Work Center Series in conjunction with the Production II Series, you can describe individual elements of your production line and workforce by defining resources and resource groups.

You can define a variety of work center types, such as machines, employees, tools or even vendors for your system. For each work center, you can indicate whether finite or infinite capacity should be used during scheduling.

Calendar and working times

You have the ability to create as many calendars as you need, each with individual setup of open and closed days, as well as working times. You can also specify efficiency percentages for specific working times, so you can, for example, ensure that items produced by the night shift have longer lead times.

Capacity load overview

With the Axapta Work Center Series, you can monitor current and anticipated capacity load statistically in overviews or graphics. This alleviates, for example, the task of identifying possible bottlenecks, since it is easy to determine when it is necessary to insert a shift, authorize overtime, or revise production schedules.

Contact your partner

To learn more about Microsoft Navision Axapta, contact your local Navision Solution Center. They have the expertise necessary to meet your specific business needs.

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Data Summary Sheet

Key Features	Description
Easy to Use	• Intuitive layout and structure • User-adjustable menus, forms and reports • User-adjustable layout of main tables and journals • Windows commands incl. 'copy and paste' from and to Axapta • Direct access to main tables from journals • Advanced sorting and filter options • Built-in user help including an integrated manual • Option to mail and fax directly from Axapta • Application can be run in different languages
Multiple routes	• Ability to have more than one route attached to a produced 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
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 route card • Control print route jobs
Ledger integration	• Online update of RIP in ledger when posting transactions or cost updating the production

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Operation time 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	• Calculate expected waste per operation as a percentage
	• Ability to use automatic resource consumption when starting or finishing productions • Formulas to calculate time required based on capacity • Resource costs in production cost estimation
Print outs	• Route card • Job card
Cost tracking	• Detailed tracking of cost related to resources and throughput

System Requirements

To obtain all of the features mentioned in this fact sheet, the following modules and technologies are required:

- Microsoft Navision Axapta 3.0
- Microsoft Navision Axapta Logistics
- Microsoft Navision Axapta Resources
- Microsoft Navision Axapta Master Planning
- Microsoft Navision Axapta Production I
- Microsoft Navision Axapta Production II