Microsoft® Navision Axapta®

# Microsoft Navision Axapta Production III

Microsoft Navision Axapta Production III increases efficiency in your production cycle.

**Key Benefits:**

- Determine the "best fit" between a work center and a specific operation
- Save valuable time by selecting the "next best" alternate resource for a production
- Get an overview of all productions

**Key Features:**

- Advanced, flexible and detailed scheduling
- Bottleneck scheduling
- Gantt planning functionality with ability to do drag-and-drop reschedule

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 businesses that use make-to-stock and/or make-to-order production, the Production III solution builds on the capabilities provided by the Axapta Production II solution and introduces key functionality including Gantt charts, job management, detailed scheduling and task groups.

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 Gantt chart, job management and detailed production scheduling.

## Part of an integrated enterprise solution

When the three modules in the Production series are combined with the 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,

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Logistics and Master Planning functionality.

The Work Center functionality is contained in the Resource module, and supports Production I and 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. Production III requires Production II.

### Detailed capacity scheduling

The Axapta Production III solution has sophisticated detailed capacity scheduling functionality. Operations on the production route are divided into jobs: one for each work center and one for each time requirement. You can schedule productions forward or backwards, as needed. You can also take finite or infinite capacity into consideration when scheduling jobs for a production.

For a higher degree of efficiency in your scheduling, you can do preliminary scheduling based on infinite capacity to assess the work center requirements for a production. You can then follow it with secondary scheduling using finite capacity to observe the consequences of limiting work center availability. The result is a thorough and more reliable detailed scheduling of capacity.

### Determine the 'best fit'

The detailed capacity scheduling can also be used to determine the "best fit" between a work center and a specific operation. When an operation is linked to a work center group, the system evaluates all work centers in the group and automatically selects the one that gives the shortest lead-time.

Task groups, which are a collection of work centers from different work center groups, can also be used to find the best way to produce a specific item. Task groups allow for the most efficient scheduling of alternate work centers based on the requirements you select, for example, the skill level of an employee, or the capacity of a machine.

### Select next best alternatives

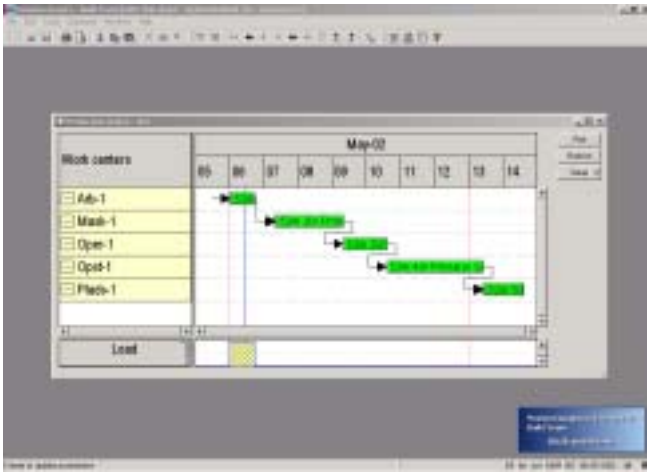
With this advanced feature, you have the option of selecting the "next best" alternate resource for a production, rather than waste valuable time waiting for the availability of a particular work center. Axapta's detailed scheduling function provides you with very accurate work center plans that tell you exactly what all employees should be doing and when they should be doing it.

### Sequence and bottleneck scheduling

The scheduling functionality includes advanced facilities for sequence and bottleneck scheduling, which reduces setup times and makes tight, controlled plans on the bottleneck.

## Gantt planning

The Production III series includes Gantt planning functionality. Gantt charts provide a graphical illustration of a schedule that helps to plan, coordinate and track specific tasks in a project. Using Gantt charts, you can, for example, assess the consequences of staff rotations visually, via the graphic tool in a simple manner. You can define your Gantt plans and envision the production flow from one machine to another.




*Use Gantt charts to visualize a production*

## Job monitoring – detailed overview of your productions

The Production III series offers detailed job monitoring, giving you a clear overview of an individual work center's activities during the course of the day. Equally important, job monitoring is an efficient managerial tool that enables you to assess whether you are adhering to production schedules.

## Work center functionality for Production III

The Axapta Work Center Series lets you define, maintain and monitor work centers or resources.

## Task groups

By using the Work Center Series in conjunction with the Production III solution, you can create cross-group links between resources that can handle the same task. This can be used to find the resource that gives you the shortest lead-time to complete a task.

## Properties

The use of properties is an advanced scheduling feature in the Production III solution, which makes it possible to ensure that operations that require the same work center setup are scheduled back-to-back. This results in much greater efficiency, since one work center setup is being used for multiple productions. You can save hours in setup and takedown time.

## 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<br>•User-adjustable menus, forms and reports<br>•User-adjustable layout of main tables and journals<br>•Windows commands incl. 'copy and paste' from and to Axapta<br>•Direct access to main tables from journals<br>•Advanced sorting and filter options<br>•Built-in user help including an integrated manual<br>•Option to mail and fax directly from Axapta<br>•Application can be run in different languages |
| **Gantt chart** | • Graphical presentation of a production order<br>• Ability to reschedule by dragging and dropping |
| **Task group** | • Use of alternative resources for an operation in case of a scheduling conflict<br>• Basic rules for which resources to use can be applied |
| **Bottleneck scheduling** | • With a known bottleneck, rescheduling can be centered on this resource |
| **Job monitoring** | • Ability to track the setup job or the process job per operation<br>• Report resource consumption based on job number<br>• Print job list per work center |
| **Scheduling properties** | • Help you to schedule operations with the same properties back-to-back |

## 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 Series
- Microsoft Navision Axapta Resources
- Microsoft Navision Axapta Master Planning
- Microsoft Navision Axapta Production I
- Microsoft Navision Axapta Production II
- Microsoft Navision Axapta Production III

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