



Production

## NAVISION AXAPTA®

### Production II Overview

- Routes, Route versions and Route approval
- Route networks
- Operations and Secondary operations
- Queue time
- Setup time
- Run time
- Overlap
- Transport time
- Scrap percentages
- Formulas to calculate time required based on capacity
- Resource costs in production cost estimation
- Cost categories
- Rough capacity scheduling
- Finite and infinite capacity
- Load percentages
- Multiple resources per operation
- Production release
- Operation feedback and overview
- Automatic resource consumption when starting or finishing productions
- Ledger posting of RIP
- Print route and job cards, and so on
- Work center functionality – calendar and templates, efficiency percentage, capacity load overview, and more



## Production II

### Presenting the Navision Axapta Production II Solution

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 Navision 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 to customers.
- Production II – an extension of Production I with routes, operations and rough capacity scheduling.
- Production III – a further extension of the Production Series, which includes job management, and detailed production scheduling.

With this functionality segmentation, you can build your production system according to the level of your company's production process requirements.

### *Part of an integrated enterprise solution*

When all three modules are combined with the Work Center Series, companies can leverage the full benefit of Navision Axapta's comprehensive production management capabilities. Additionally, companies benefit from the fact that the Production Series expands on the foundation of the Financial, Trade, Logistics, Master planning and Work Center Series.

The Work Centers series is a sub-module to the Production II and III solutions, as well as the Project

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module. This means resources are shared between the Production and Project series, which prevents double booking of resources when scheduling. Production II requires the Work Center functionality, which is part of Production I.

### **Key functions that provide you with a competitive advantage**

The Navision Axapta Production Series offers many powerful functions and feature for all types of manufacturing enterprises. The following is a description of key functions in the Production II solution.

#### ***Routes***

A company could 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 Navision Axapta Production II solution has the unique feature of allowing you to 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 current circumstances. For example, you may choose to use one route for large productions, and another one for smaller ones.

Which route a production should use 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 material.

#### ***Operations***

Routes consist of operations, which describe a process or task required to complete the production of an item. Operations in Navision 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, which 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 a production for an operation. Additionally, the amount of time an operation should require can be calculated based on work center capacity. Combining these two things gives a company tremendous possibilities in defining the way items are actually being produced in their factory.

#### ***Finite or infinite capacity scheduling***

The Navision Axapta Production II solution has sophisticated built-in rough capacity scheduling functionality. Productions can be scheduled forwards or backwards, while taking finite or infinity capacity into consideration. Capacity can be reserved on work center groups, or on specific work centers, and load percentages can be managed, resulting in the

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possibility of using one person for several productions at the same time.

### **Cost estimation, release and production startup**

The production cost estimation feature in the Production II solution is extended to handle work center costs. This added functionality gives you more detailed, 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, including feedback.

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.

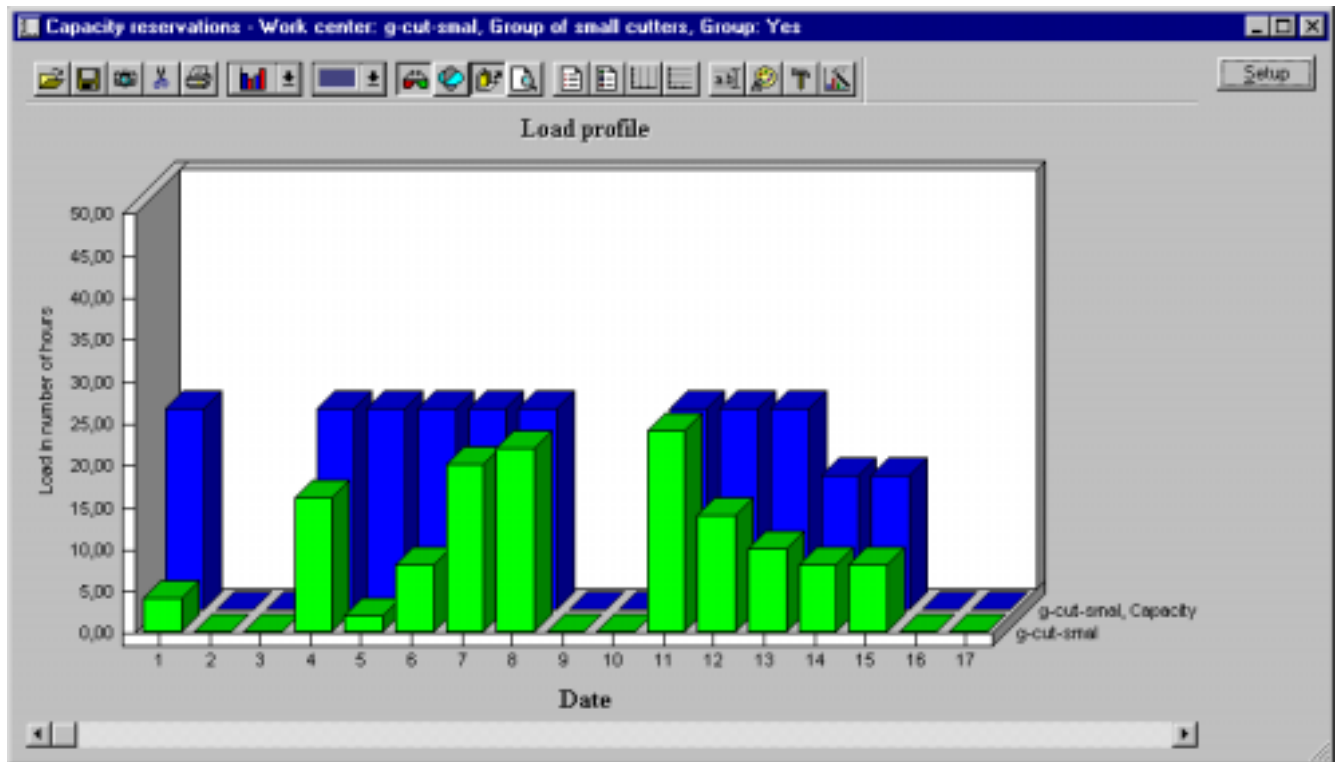
### **Production progress and overview**

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

### **Work center functionality for Production II**

The Navision 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.



View capacity load visually via several graphic formats, such as bar graphs, pie charts, and more.

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### ***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 work force by defining resources, and resource groups.

You can have a variety of work center types, such as machines, employees, tools or even vendors set up 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 Navision Axapta Work Center Series, you can monitor current, and anticipated capacity load statistically in overviews, or by graphic. 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.

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