Microsoft® Navision Axapta®

Microsoft Navision Axapta Production I

Microsoft Navision Production I provides the functionality to handle the flow of materials throughout the production process.

Key Benefits:

- Simplified overview of the production process
- Manage stock more effectively
- Centralize information on productions
- Customize your production plans as situations arise

Key Features:

- On-line monitoring of work-in-progress (WIP)
- Master Scheduling
- Real-time information and instant calculations
- Production status can be set forward or backward as requested, until the production is costed

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.

The Production Series is divided into 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 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.

The Work Center's 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

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scheduling.

Management overview

Using the Axapta Production Series, you can extract data from anywhere in your entire production system. This puts important managerial decision making information right at your fingertips, a strong advantage in the production environment where lost time is lost money. For example, you can identify a potential shortage in advance and make an alternate plan of action. Additionally, you can have a simplified overview of even the most complex production processes, providing you with high-level information that is easily accessible.

Manage stock more effectively

Since inventory storage represents a high, non-value-added cost, the Production and Master Planning Series give make-to-stock production enterprises a significant competitive advantage in their ability to manage stock.

The Master Scheduling features allow you to optimize on-hand inventory and planned delivery. Additionally, you can quickly find out if a particular item (for a customer or for a production) is in stock or when it will be. The result is shorter lead times and higher customer satisfaction.

Make-to-order production businesses

The Production series also gives make-to-order production businesses the ability to efficiently manage order entry, materials purchase and production according to customer needs. As soon as an order is received, you can determine a delivery date, since the system automatically takes available material and capacity into account.

Using the configuration tool, you can fulfill special product requirements, and calculate cost prices immediately. With all of this real-time information and instant calculations, you can give your customer the most accurate price and delivery date information possible.

Production Table

The Production Table contains information on planned productions, quantities to be produced, start times for productions, delivery dates for finished goods, and much more.

Production can be divided into groups or pools, and quantities can be split in running productions so that part of the order is produced in another period.

The Production Table is the central element in the Axapta Production Series, providing you with

T.	Production	Level	Item/Work center	Unit	Estimated consumption	Realized consumption	Estimated cost amount	Realized cost amount
	800007	0	SP-LShade/B30	Pcs	135,00	135,00	690,08	745,95
	800007	1	RM-Metal/1	Pcs	15,00	30,00	25,50	51,00
	800007	1	RM-Paint/B	Lit	6,75	13,50	30,38	60,75
	800007	1	G-Cut-Smal	Pcs	135,00	135,00	0,00	
	800007	1	G-Eazenter	Pcs	135,00	135,00	0,00	
	800007	1	G-Oxidizal	Pcs	135,00	135,00	0,00	
	800007	1	G-Paint	Pcs	135,00	135,00	0,00	

Comparison between estimated and realized cost for a production

all the information you need to manage your productions.

Production bills of materials

Productions can be created for individual bills of material (BOM) versions. The Production I solution handles all of the standard BOM functionality such as phantom expansion of sub-BOMs, measurement consumption formulas, constant and variable waste. It also handles negative item requirements, which means you can have more than one finished item in production.

You can set up the Production I solution so that the system automatically creates derived sub-productions and purchase orders, which drastically reduces manual work.

Production cost estimation and rough scheduling

Using Axapta, material consumption can be cost estimated, and rough scheduling can be done using raw material lead times from the Item Table. You also have the flexibility to schedule productions forward or backward from any date.

Production I also allows you to customize your planning setup to alert you to situations that will interfere with your production, and propose dates in the future by which the production can be completed within the given constraints.

These future messages and dates, derived from the Master Planning module when determining start and end dates for production, help guide you towards a more accurate and efficient scheduling process.

Production startup

Production Startup lets you start a production, or any part of it, in a standard, forward manner (for example, quantity 100), or have a reverse startup (for example, with a quantity of negative 100).

Material consumption can be drawn automatically or entered manually depending on your setup. Documents, like the 'Pick List', for example, can be printed including reserved serial numbers.

Production report as finished

Productions can be reported as finished with the details of individual batch numbers, if required. Material Consumption can also be back flushed according to the finished quantity. In both the startup and reports as finished functions, Work in Progress - costs associated with a production that has started but is not yet finished - can be posted in the general ledger automatically.

Production historical costing

Depending on your accounting needs, you can also automatically update and post historical cost information for productions to the general ledger. Comparisons between cost estimates and historical costs can be done. This allows you to modify standard BOMs with updated consumption information from real productions. The result is better cost-estimates in the future, and tighter accounting controls.

Subcontracting enterprises

The Axapta solution allows you to monitor subcontractors just as you would monitor any other resource. You can manage expenses associated with subcontractors in the Purchase module, and use the planning facilities to monitor subcontracted work with ease.

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
Production initiation	• Manual creation of production order • Create production order through planned production orders in Master planning • Create production order directly from a sales order line
Production orders	• Production groups • Production pools • Quick overview of the status of the production • Tracking historical costs
Subcontracting	• Purchase of services from subcontractors • Monitoring sub-purchase orders from the production module
Production Bill of Materials	• Standard BOM is copied to Production order, from where it can be modified, if needed • Support Measurement formulas to calculate consumption • Support negative quantity on BOM lines and thereby increase on-hand inventory
BOM line type	The nature of an item within a BOM is controlled by the line-type. A given item can be handled as: • Sub-production • Phantom BOM • Subcontract • Normal item
Production splitting	• If needed, a production order can be divided into two or more productions
Scheduling	• Production scheduling can be done forward or backward with different dates as starting points based on lead time of raw material • Use of finite or infinite material • Backward flushing or forward flushing

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Production status	A production in Axapta goes through the following steps: • Estimated • Scheduled • Started • Report as finished • Costed
Production status control	• The production order can be rolled back and deleted if required until costing
Waste consumption	• Waste can be handled either as a constant or a variable
Financial integration	• On-line updating of WIP and actual cost General Ledger when updating in Production
Production consumption	• All consumption is reported through journals. Journals can be automatically generated and/or posted. Axapta support backward flushing

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 Trade Series
- Microsoft Navision Axapta Trade Agreements
- Microsoft Navision Axapta Logistics
- Microsoft Navision Axapta Master Planning
- Microsoft Navision Axapta Production I