prodware

Manufacturing

Boost the manufacturing capabilities in standard Dynamics 365 Business Central to meet your needs in packaging, assembly, semi-process and bulk production

The production operation can be complex and impact on productivity when manufacturers want to provide a personalized and competitive offering to the supply chain, agility can be affected in this modern challenge:

"Because we deal with semi-finished and bulk products, we manage multiple components, BOMs and packaging requirements. This can result in slow and duplicate processes when we are managing item creation and production orders."

"As a Quality Control Manager, I'd like to set up test specifications using different criteria depending on the supplier, customer or product itself, achieving more automation and productivity."

"We need our Business Central system to flex to how we do business with suppliers and customers; what discounts, items and trade structures are in place. We need to reduce the admin in order to provide this personalized service."

Prodware Manufacturing is an end-to-end vertical solution directly integrated into Microsoft Dynamics 365 Business Central to boost your manufacturing capabilities across key areas of your business. Available as either a Essentials or Advanced edition, depending on your needs.

What's inside the Essentials edition?

The solution covers functions to meet commercial, product, packaging and warehousing needs:

- Distribution Essentials solution functionalities
- Warehouse Management accelerator
- Manufacturing enhancements to standard Business Central:
  - Routing
  - Bill of Materials
  - Production Order
- Consumption Location and Bin Code
- 2 reporting load calendar dashboards by period: one for machine center, one for work center
- Job Card Report
- Palletization Plan template
- Item Availability list

What's inside the Advanced edition?

In addition to Manufacturing Essentials functionalities, the solution supports bulk product manufacturing, semi-process assembly and quality control needs:

- Quality Management accelerator
- Reconditioning / Single-level
- CLP Regulation
- Batch Composition
- BOM Lot Size
- Formula management
- Import/Export Demand Forecast
- Lot Determining
- Uniqueness of Lot

What is in the Essentials edition? Here's a taste

Manufacturing	This solution expands on the standard **Routing** features with the ability to copy Routing, get quick access to change log and attach documents to a routing and routing version. The same applies for improvements in **BOM** (whatever the type e.g. production, packaging etc.). When a user wants to **search** for key information for a **production order** (progress, components, documents), this can often take several clicks and even just show one; this solution rectifies this with quick access enhancements. We've also simplified the **Production Order** creation process, i.e. if you want to directly specify the variant, unit of measure, BOM and version number, plus the Routing and version number. **Consumption Location and Bin Code** allows you to define a default consumption location and bin code for each item and in a BOM, so that when a production order is generated, the system takes into account these additional settings to determine the location and bin code for each component of a production order. The two **Load Calendar** dashboards display the production load on a fixed horizon. The load from production orders can be viewed by period, either on machine centers or work centers. It calculates the remaining capacity, load or availability of a machine center or a work center, over a defined period of time. An essential for the shopfloor, the new **Job Card Report** for production orders provides extra information for printing such as product and components barcode and images, comments, attributes and lot/series number details. The solution includes an improved **Palletization Plan Template** so that you can add default values related to packaging management. We've added more levels to **Packaging Management** functionality for you to create and manage several levels of semi-finished items linked to a product, this can take into account different ways you pack and market your product. The **Item Generator** is a wizard that allows you to set up item code, BOM, routing, weight and volume etc. at the time of creating your item, saving a lot of time. **Item Availability** is an important new screen, it allows the user to easily see stock across multiple companies and locations and then see the detail (history, location, image, etc.) with multiple line detail when viewing component items within a product.
Distribution	Organizations need the flexibility to be able to offer their customers personalized discounts, based on various and combined criteria. With **Advanced Sales Discount**, you can provide a more extensive discount to your customers. Where standard Business Central determines the best (single) discount, you can now stack the discounts and give a discount over the discount. **Trade Agreement** and **Trade Structure** allows you to define discount structures for a customer or group (and within hierarchical structures) with conditions and associations with items or groups with financial analysis of the impacts. Do you want to speed up and improve personalized service for your customers? **Sales Assortment** helps you improve the sales order process by creating a preferred item list for each customer. Do you lose productivity when processing sales orders when manually cross-referencing preferred items to make available to customers? **Free Product Items** helps you with specific commercial rules, automatically including free items that match the criteria to sales orders for easy selection. Sometimes, items cannot be purchased before the supplier has passed an approval process. To help you automatically exclude suppliers who have not yet been approved, two new settings have been added with **Purchase Restriction** functionality. With **Third Party Payment** features, you can save time and set up rules for invoicing and delivery for customers and vendors who have multiple companies and addresses. Manufacturers often need to see the whereabouts of their sales orders, if the goods are partially, totally or not shipped at all. The **Shipment Status** feature gives you this visibility with color-coded views for available stock. We've enhanced the standard **Units of Measure** feature in Business Central, by allowing you to define at company level, conversions between units of measure with the same type (volume and weight). These are then automatically updated throughout the system, saving time in procurement, sales and inventory processes and extend into invoicing for items in purchase and sales documents. Do you need to further personalize the fields and the data entry processes in Business Central to meet your needs? **Mandatory Fields** functionality allows you to select key areas (customer, vendor, General Ledger account, Items, Resource, Jobs and Fixed Assets) and make selected fields mandatory for completion. In addition, **Free Fields** allows you to customize up to 14 fields with no need for development.
Inventory management	**Warehouse Management** functionality extends existing Business Central warehouse management features to easily handle pallet management, bin management, packaging and also printing and reading of labels.

What is in the Advanced edition, in addition to Essentials functionalities?

Quality Management	**Quality Control** functionality helps you measure and manage quality compliance throughout your inventory processes. It manages central product specifications, quality orders and shipments. **Complaints Management** helps you register and manage complaints from customers, suppliers and employees. Workflows and escalation framework for non-conformity procedures helps when internal due process is not followed.
Manufacturing	**Item and Product Management** includes the ability to group several BOM levels into a single Production Order line and manage repackaging and unpackaging. Classification, Labelling and Packaging **(CLP) Regulation** are introduced in Business Central. Users can assign GHS Symbol, H and P Phrases to items. Users can easily export and import your **Demand Forecast** from an excel file. With more flexible **Lot Determining**, users can assign a lot number to the manufactured item in two different ways: automatic numbering or using the lot number of a specific component. The **Uniqueness of Lot** feature allows the business to prohibit the use of several lot numbers of a component within a single production order. We've enhanced **Batch Management** too. In **Formula Management**, a new type of BOM (formula) allows the user to build the BOM lines by using component percentages, manage the notion of fixed or proportional quantity on each line and attach a routing to a formula. In **BOM Lot Size**, the user can attach a minimum and maximum quantity to versions of a BOM. When a production order is created, the BOM version to use will depend on the quantity to produce. If you use batch management in a production order, Batch Composition allows you to automatically split the desired quantity to produce into several production orders so that the size of each batch is maintained.

Speak to Prodware about how a sector-specific system for your business built on market leading ERP tech will keep you agile, cost-effective and quality-assured.

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