

Process Industries

Solutions for Life Sciences and Pharmaceutical Manufacturing

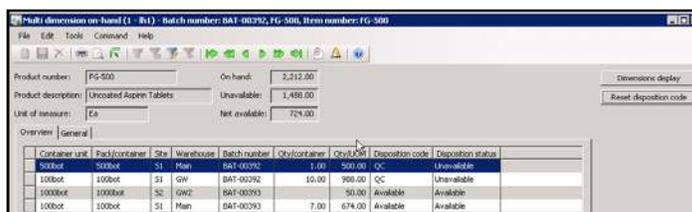
Process Industries for Microsoft Dynamics AX

BENEFITS

- **Expedite new product introductions.** Integrated workflows increase efficiency and eliminate waste so you can introduce new products in a timely, least-cost manner.
- **Help meet Good Manufacturing Practices (GMP) requirements.** Manage electronic quarantines, quarantine release by user and material type, printed material control/obsolete components, lot control/segregation, lot tracking, and enable drug and hazardous material reconciliation.
- **Improve production planning.** Model the processing of costly ingredients to help minimize overruns and short-runs, and use shelf life tracking to consider expiration dates during production and distribution.
- **Manage inventory with precision.** Centrally manage co-products and by-products in your formulas or recipes, and always know the correct inventory status for any given item.
- **Maximize your IT investments.** Tight integration with other Microsoft® products extends Process Industries for Microsoft Dynamics AX capabilities to help ensure a fast return on investment.

Life sciences and pharmaceutical companies depend on high sales margins, technological advances, and rapid product introductions for strong business growth. With Process Industries for Microsoft Dynamics® AX, you can manage the variables that threaten growth, including shelf life constraints, cost pressures, competition from generic and over-the-counter drugs, and strict regulatory requirements for manufacturing and product approvals.

Gain visibility across all areas of your organization from finance to manufacturing with integrated information and workflows that help speed the movement of goods, eliminate waste due to costly shelf life expirations and returns, and optimize production. Process Industries for Microsoft Dynamics AX delivers the information you need to maximize capacity, help comply with regulatory demands, and drive continuous process improvement.



The screenshot displays a software window titled 'Multi dimension on hand (1 - B1) - Batch number: BAI-00292, FG-500, Item number: FG-500'. It shows a summary of inventory for 'Uncoated Aspirin Tablets' with fields for 'On hand' (2,212.00), 'Unavailable' (1,488.00), and 'Net available' (724.00). Below this is a table with columns: Container unit, Pack/container, Site, Warehouse, Batch number, Qty/container, Qty/lot, Disposition code, and Disposition status.

Container unit	Pack/container	Site	Warehouse	Batch number	Qty/container	Qty/lot	Disposition code	Disposition status
500bot	500bot	S1	Man	BAI-00292	1.00	500.00	QC	Unavailable
100bot	100bot	S1	GW	BAI-00292	10.00	900.00	QC	Unavailable
1000bot	1000bot	S2	GW2	BAI-00293	50.00	50.00	Available	Available
100bot	100bot	S1	Man	BAI-00293	7.00	674.00	Available	Available

Classify, manage, and access information about materials with multiple characteristics from a single, intuitive interface.

Process Industries for Microsoft Dynamics AX can help you document standard processes and track and log operations and results to meet your reporting requirements. And, with the superior tracking capabilities of this solution, your company can implement effective recall procedures with complete forward and backward traceability when necessary.

Get the control, predictability, and quality results you need with Process Industries for Microsoft Dynamics AX.

FEATURES

Input-driven process specification	<ul style="list-style-type: none">• Accommodate an unlimited number of inputs and outputs within the process specification through a recipe system that defines all the production resources, including ingredients, machines, labor, utilities, and quality assurance variables.
Attribute tracking and dynamic formula adjustment	<ul style="list-style-type: none">• Define and maintain an unlimited number of qualitative and quantitative attributes at the product and lot levels.• Adjust formulas based on the actual characteristics of input materials to help ensure consistent quality of final products.
Centralized quality control and compliance support	<ul style="list-style-type: none">• Use integrated quality control and lot traceability to link raw materials through each operation of the production process to final delivery at the customer site.• Help support U.S. Food and Drug Administration (FDA) reporting, plus GMP and FDA regulation 21 CFR Part 11.
Batch optimization and balancing	<ul style="list-style-type: none">• Produce against given batch sizes, so every batch can be fully consumed.• Maintain a selection of the products most likely to be needed in stock as well as the coherence and traceability of multi-level production.
Yield planning and tracking	<ul style="list-style-type: none">• Establish standards for yield using formulas, and then track and report actual yields against those standards to quickly identify out-of-tolerance conditions, isolate the cause, and take corrective actions.
Co-product/by-product management	<ul style="list-style-type: none">• Support co-product and by-product tracking to help optimize decisions.• Analyze co-product and by-product attributes and costs, and credit their values to the appropriate finished goods.
Customizable item and dimensionality structure	<ul style="list-style-type: none">• Define multiple inventory dimensions and gain insight into the dynamics of your stocking practices, including packaging codes, variations to the main item, lot management, and inventory status.• Conduct comprehensive “where-used” analysis, including alternate formula and recipe tracking.
Variable inventory and order tracking	<ul style="list-style-type: none">• Monitor inventory using dual units of measure (UOMs) to manage total weight as well as packaging units (catch weight calculations).• Track order status using real-time updates on net purchasing, production, and capacity requirements, and graphical symbols for each level of the formula or recipe.
Integrated quality control (QC) capabilities	<ul style="list-style-type: none">• Know the correct inventory status for any given item, including designations for QC testing, QC failed, and downgrade of product.• Implement effective recall procedures when necessary with complete forward and backward traceability.• Manage quarantined products throughout the QC process and track their release from quarantine.
Customized product and packaging capabilities	<ul style="list-style-type: none">• Provide your customers with increased packaging flexibility by defining effective UOMs.• Enable customers to request multiple quality specifications per product while maintaining inventory visibility.• Support highly flexible configurations and packaging types while combining similar products in production to improve machine utilization.
Detailed production cost analysis	<ul style="list-style-type: none">• Analyze and monitor production costs and requirements for each component of a sales order using graphical representations of multi-level formulas and recipes.
Optimized picking	<ul style="list-style-type: none">• Pull inventory in optimal sequence, employing “best before” management.• Employ first expired/first out (FEFO) or first in/first out (FIFO) calculations for inventory picking, reducing inventory, and eliminating waste.
Manufacturing process validation	<ul style="list-style-type: none">• Accelerate and simplify compliance with requirements from regulatory agencies such as the FDA by validating manufacturing processes.
Extensive audit trails	<ul style="list-style-type: none">• Incorporate electronic signature functionality into business processes, providing complete visibility and audit trails.

For more information about Process Industries for Microsoft Dynamics AX 2009, visit www.microsoft.com/dynamics/ax/product/processindustries.mspx.

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