

PROCESS INDUSTRIES FOR MICROSOFT DYNAMICS™ AX

Solutions for the Food and Beverage Industry

Food and beverage manufacturers are faced with having to satisfy customers while operating profitably in spite of fluctuating consumer demand, strict government regulations, raw material variability, and capacity constraints. With Process Industries for Microsoft Dynamics AX, these companies get the tools they need to help meet compliance, efficiency, and quality requirements, which in turn, can help their businesses achieve customer satisfaction and profitability goals.

Benefits:

- Better management of safety, quality, and compliance requirements
- Reduced manufacturing and labor costs
- Ability to tie promotions into manufacturing plans
- Improved production planning and inventory management
- Positive return on investment (ROI)

Incorporate Promotions for More Accurate Manufacturing Plans

In the complex sales channels of food and beverage, small adjustments to pricing and promotional incentives, such as ad-hoc deals, significantly impact sales volumes and revenues. With rebate and trade promotions functionality, your sales and marketing team has the flexibility to fine-tune promotions and share the information with manufacturing to achieve the ideal balance between production and sales.

Improve Production Planning and Inventory Management

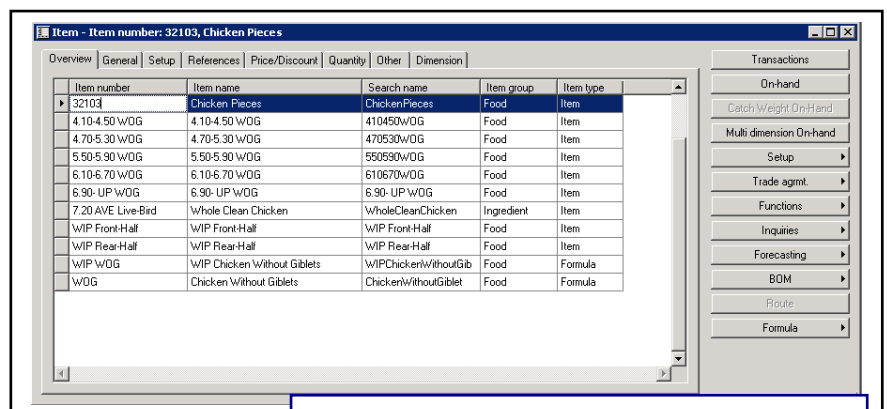
Minimize overruns and short runs, and use shelf-life tracking to accommodate the high perishability of raw food and ingredients by taking expiration dates into consideration during production and into distribution. You can also centrally manage co-products and by-products in your formulas or recipes, access inventory status for any item at any time, and assign production and overhead costs to co-products and by-products.

Better Manage Safety, Quality, and Compliance Requirements

Document, track, and log all standard processes to support detailed reporting requirements. With traceability, lot requirements, production statistics reporting, specification management, and change management, you can better control and predict production to detect and address exceptions early and consistently produce the highest quality products. Use ingredients in the best sequence and avoid expiry loss with efficient shelf-life management and first-expire, first-out (FEFO) inventory control. By tracking items from cradle to grave, your company can implement effective recall procedures with complete forward and backward traceability of any material.

Reduce Manufacturing Costs and Meet Customer Service Commitments

Control costs to preserve your margins while maintaining customer service levels. Monitor operations at a detailed level, keeping a close watch on yields and labor, tracking material usage, and planning production shifts to maximize capacity.



Process Industries for Microsoft Dynamics AX provides users with a flexible, easy-to-use way to define and manage complex recipes and multiple types of ingredients.

Features Overview

Detailed Production Cost Analysis	Analyze and monitor production costs and requirements for each component of a sales order using graphical representations of multilevel formulas and recipes.
Input-Driven Recipe Specification	Model and manage an unlimited number of inputs and outputs through a recipe and formula management system. Define all of the resources of production including ingredients, co-products and by-products, machines, labor, utilities, and quality assurance variables.
Attribute Tracking and Dynamic Recipe Adjustment	Define and maintain an unlimited number of qualitative and quantitative attributes at product and lot levels. Adjust formulas automatically based on predefined ratios and scaling.
Centralized Quality Control and Regulatory Support	Use integrated quality control and lot traceability to link raw materials through the production process to final delivery. Support Hazard Analysis and Critical Control Points (HACCP) safety guidelines and U.S. Federal Drug Administration (FDA) requirements.
Catch Weight and Recipe-Based Units of Measure (UOM)	Track and manage inventory simultaneously using two non-converted UOM, such as pounds and cases. Enter product volumes and weights based upon actual measurements rather than through UOM conversion routines. Capture and use as-produced weight (catch weight) to ensure accurate inventory management and costing.
Promotional Planning	Model demand at any level (product, product group, customer, and customer group) of the supply chain while accounting for the anticipated effects of sales promotions and incentives.
Yield Planning and Tracking	Establish yield standards by using formulas and then track and report actual yields to quickly identify out-of-tolerance conditions, isolate the cause, and take corrective actions.
Co-Product/By-Product Management	Track and analyze attributes and costs of co-products and by-products; compare costs and benefits of selling or disposing of them. Credit their values to the appropriate finished goods.
Flexible Planning and Scheduling Tools	Quickly adjust product mix to respond to changes in demand. Estimate the impact of different sales scenarios using “what-if” simulations. Schedule multiple package types within a single production run and consider recurring or rework products when scheduling. Deploy finite or infinite capacity and materials scheduling, backward or forward scheduling, detailed scheduling by hours and minutes, or scheduling by day.
Customizable Item and Dimensionality Structure	Define multiple inventory dimensions and gain insight into 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	Monitor inventory using dual UOM for total weight and packaging units (catch weight). Track order status with real-time updates on net purchasing, production, and capacity requirements
Integrated Quality Control (QC) Capabilities	Know the correct inventory status for any given item, including designations for QC testing, QC and failed, and downgrade of product. Manage quarantined products throughout the QC process and track their release from quarantine.
Customized Product and Packaging Capabilities	Provide your customers with increased packaging flexibility by defining effective UOM. 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.
Optimized Picking	Pull inventory in optimal sequence, employing “best before” management. Employ either first expired/first out (FEFO) or first in/first out (FIFO) calculations for inventory picking.
Manufacturing Process Validation	Accelerate and simplify compliance with requirements from regulatory agencies such as the FDA by validating manufacturing processes with Microsoft Dynamics AX for Life Sciences.

Achieve a Positive ROI

Because Process Industries for Microsoft Dynamics AX is built on proven Microsoft products and technologies, your business can take advantage of existing IT investments such as Microsoft® Office System applications and the Microsoft Windows Server System™. Your company can also realize quick payback on your investment. According to a research study by Nucleus Research, Inc. conducted in 2004, 75 percent of participating Microsoft Dynamics AX (formerly Microsoft Business Solutions–Axapta®) customers achieved a positive ROI within an average of only 23 months.*

*Nucleus Research, Inc. *The Real ROI from Axapta*. Research Note E116, October 2004.

For more information about Process Industries for Microsoft Dynamics AX, visit <http://www.microsoft.com/dynamics/ax>.

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