

Process Industries

Solutions for Food and Beverage Manufacturing



Process Industries for Microsoft Dynamics AX

BENEFITS

- **Balance production with demand for greater profitability.** Use rebate and promotion functionality to drive sales, compare sales against inventory status to adjust production as needed, and eliminate waste by distributing inventory in optimal sequence using shelf-life tracking.
- **Help manage safety, quality, and compliance requirements.** Document standard processes and track operations to meet detailed regulatory requirements of the U.S. Food and Drug Administration (FDA).
- **Manage inventory with precision.** Centrally manage co-products and by-products in your formulas and recipes, access inventory status for any item at any time, and assign production and overhead costs to co-products and by-products.
- **Reduce manufacturing and labor costs.** Monitor operations at a detailed level by keeping a close watch on yields and labor and tracking material usage, and plan production shifts to maximize capacity while maintaining your customer commitments.
- **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.

Food and beverage manufacturers contend with fluctuating consumer demand, strict government regulations, and raw material variability. With Process Industries for Microsoft Dynamics® AX, food and beverage companies have the tools they need to plan for demand, help meet quality and compliance standards, and manage their inventory while maintaining excellent customer service.

Process Industries for Microsoft Dynamics AX can help you optimize production processes, speed the flow of goods, and meet your delivery commitments. With access to real-time inventory levels, you can adjust your forecasts and inventory to help ensure adequate supply for demand. Process Industries for Microsoft Dynamics AX also provides lot tracking, specification management, and production statistics reporting so you can detect and address problems early and consistently produce high-quality products.

Ingredient	Quantity	Unit	Cost	Yield	Inventory	Order	Unit	Cost
WATER	1000	L	0.00	1000	1000	0	L	0.00
SUGAR	500	KG	0.50	500	500	0	KG	0.50
COFFEE	250	KG	4.00	250	250	0	KG	4.00
MILK	1000	L	0.10	1000	1000	0	L	0.10
EGG	100	PC	0.20	100	100	0	PC	0.20
BUTTER	500	KG	2.00	500	500	0	KG	2.00
FLAVOR	100	ML	1.00	100	100	0	ML	1.00
STABILIZER	50	KG	0.50	50	50	0	KG	0.50
PACKAGING	100	PC	0.10	100	100	0	PC	0.10

Take advantage of an easy way to create and manage formulas.

With robust planning and analysis tools in Process Industries for Microsoft Dynamics AX, you can model and manage an unlimited number of inputs and outputs through a recipe and formula management system. The business intelligence it delivers helps you to make timely adjustments in response to changes in the market and commodity prices. By effectively managing processing of costly ingredients, you can minimize overruns and short runs to reduce waste and meet customer demand.

FEATURES

Catch weight and recipe-based units of measure (UOMs)	<ul style="list-style-type: none">• Track and manage inventory simultaneously using two non-converted UOMs, such as weight and area.• Enter product volumes and weights based on actual measurements rather than through UOM conversion routines to minimize material variances.• Capture and use as-produced weight (catch weight) to help ensure accurate inventory management and costing.
Input-driven recipe specification	<ul style="list-style-type: none">• Define all the production resources, including ingredients, co-products and by-products, 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 predefined ratios and scaling.
Centralized quality control (QC) and regulatory support	<ul style="list-style-type: none">• Use integrated QC and lot traceability to link raw materials through the production process to final delivery.• Support U.S. Hazard Analysis and Critical Control Point (HACCP) safety guidelines and FDA requirements.
Promotional planning	<ul style="list-style-type: none">• Model demand at any level of the supply chain (product, product group, customer, and customer group) while accounting for the anticipated effects of sales promotions and incentives.
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">• 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 stocking practices, including packaging, main item variations, 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 UOMs to manage total weight and packaging units.• Track order status using real-time updates on net purchasing, production, and capacity requirements.
Integrated 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.• Manage quarantined products throughout the QC process and track their release.
Customized product and packaging capabilities	<ul style="list-style-type: none">• 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 costs 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">• Help streamline compliance with requirements from regulatory agencies by validating manufacturing processes.

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