

Process Industries

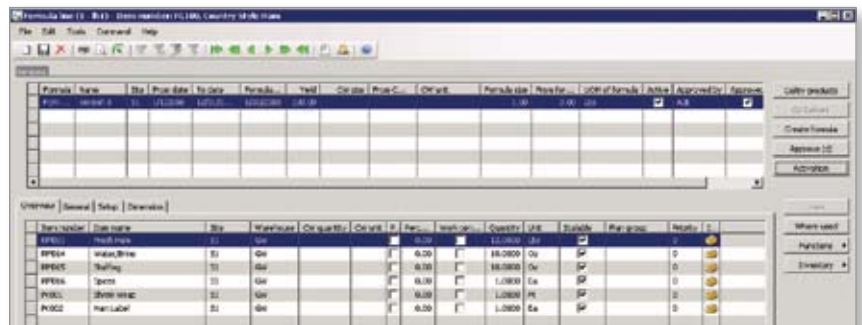
Solutions for Meat, Pork, and Poultry Manufacturing

Process Industries for Microsoft Dynamics AX

BENEFITS

- **Meet customer demand and increase profitability.** Use containerization to repack products to meet customer demand. Measure and track yields by item, operation, and finished goods, and adjust operations to eliminate waste.
- **Reduce risk with compliance support.** Use non-refutable electronic signatures, audit trails, lot tracking, calibrations management, and time-outs to help pass U.S. Food and Drug Administration (FDA) audits for 21 CFR Part 11 compliance.
- **Help ensure fresh, high-quality products.** Use first expired/first out (FEFO) logic to track and monitor shelf life of incoming raw materials. Distribute time-sensitive organic products in optimal sequence and eliminate waste due to expiry loss with best-before dates.
- **Manage component costs with precision.** Follow the latest commodity pricing, use formulas to track co-product costs as allocated costs from raw materials, and cost out by-products, yield, recycles, scrap, and waste.
- **Maximize your IT investments.** Tight integration with other Microsoft® products extends the capabilities of Process Industries for Microsoft Dynamics AX to help ensure fast return on investment.

Seasonality, diet trends, and health issues create demand curves in food services and supermarkets that defy traditional forecasting methods and complicate production planning for meat, pork, and poultry manufacturers. Supply variability, quality validation, strict government regulations, and an increasing demand for value-added products create further challenges to profitability. With Process Industries for Microsoft Dynamics® AX, protein manufacturers get the tools they need to match push supply with pull demand, help meet strict FDA quality and compliance standards, and track yields to minimize by-products resulting from the production process.



Recipe Name	Step	Product Code	Quantity	Unit	Yield	Cost	Price	Weight	Analysis	Ready	Unit
RP001	Meat	01	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP002	Meat	02	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP003	Meat	03	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP004	Meat	04	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP005	Meat	05	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP006	Meat	06	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP007	Meat	07	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP008	Meat	08	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP009	Meat	09	100	kg	1.00	10.000	0.10	1000	SP	0	kg
RP010	Meat	10	100	kg	1.00	10.000	0.10	1000	SP	0	kg

Easily create and manage recipes in Process Industries for Microsoft Dynamics AX. With a single screen, you can review and maintain important information about the recipe and its individual ingredients.

Process Industries for Microsoft Dynamics AX can help you produce high-margin products while meeting your quality and delivery commitments. With inverse bills of materials (BOMs) and flexible planning functionality, you can manage hundreds of stockkeeping units (SKUs) developed from a single material and generate material resource plans (MRP) for any co-product. You can also track the weight of variable or "catch weight" items at each stage in the manufacturing process so you can place orders, cost products, price, ship, and invoice by actual weight.

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.• Track eWeights, standard weights based on container size.
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 the actual characteristics of input materials to help ensure consistent quality of final products.
Centralized QC and regulatory support	<ul style="list-style-type: none">• Use integrated QC and lot tracking and tracing at the sub-lot and serial levels to link raw materials through the production process to final delivery.• Assign serial numbers to each component on a lot and trace shipped lots back through production to the original flock or herd number.• Support U.S. Hazard Analysis and Critical Control Point (HACCP) safety guidelines and FDA audit requirements.
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">• Track and 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, including dual UOMs, catch weight calculations, packaging codes, variations to the main item, and lots.• Conduct comprehensive where-used analysis, including alternate formula and recipe tracking.• Simultaneously view bulk equivalents, regardless of pack container, and see individual lots, lot status, lot quality control (QC) data, and item potency in one snapshot view with multi-dimensional inventory tracking.
Variable inventory and order tracking	<ul style="list-style-type: none">• 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 QC capabilities	<ul style="list-style-type: none">• Track QC testing—including QC passes, fails, quarantines and releases, and downgrades—as part of inventory status.• Implement effective recall procedures 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">• 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 and FEFO calculations picking guidance.

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