

Process Industries

Microsoft Dynamics AX

BENEFITS SUMMARY:

- Increased speed and flexibility of your process manufacturing operations
- Improved communications internally and with customers and supply chain partners
- Insight into production processes and costs to help manage resources effectively
- Ability to respond quickly to changing market conditions or new opportunities
- Reduced total cost of ownership (TCO)
- Positive return on investment (ROI)

Improve operational efficiency by integrating sales, production, inventory, quality control, distribution, and customer service capabilities throughout the entire process manufacturing life cycle. With Process Industries for Microsoft Dynamics™ AX you can better manage all the variables required to engineer and build products to custom specifications, optimize capacity, comply with regulatory demands, and drive continuous process improvement.

Increase the speed and flexibility of your process manufacturing operations

Process Industries for Microsoft Dynamics AX supports a range of manufacturing processes, including make to order, make to stock, and mixed mode, or a hybrid environment incorporating both process and discrete operations. Your company can build a flexible solution that fits your needs by integrating production processes and implementing best practices that standardize operations and help increase efficiency.

Formula	Name	From date	To date	Formula change date	Yield	Formula size	Active	Approved by	Approved
FOR-0215	Production	5/4/2005		6/2/2005	100.00	1,000.00	<input checked="" type="checkbox"/>	lawrence	<input checked="" type="checkbox"/>

Item number	Ware	Quantity	Percent	Percent Controlled	Scalable	Unit	L	Item name
9-3000	WH1	150.0000	15.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gal	25	Latex-Based Binder
9-4000	WH1	400.0000	40.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gal	25	Carbon - Water
9-5000	WH1	300.0000	30.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gal	25	Additives
9-2000	WH1	150.0000	15.00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Gal	25	Prime Organic Pigment

Process Industries for Microsoft Dynamics AX provides an easy-to-use, easy-to-understand way to create and manage recipes and formulas. With a single screen, users can review and maintain important information about the formula, as well as the individual ingredients.

Increase connectivity and communication internally and with customers and trading partners

With streamlined processes your company can help maintain high production levels and on-time deliveries by sharing real-time information among key departments and integrating critical production and quality control (QC) data into your buying, selling, and production decisions. Your sales and customer service employees can communicate effectively with customers by responding quickly to order status, certificate of analysis, and delivery queries. With up-to-date production information, your trading partners can better meet delivery dates or quickly alert you to changing market conditions.

Provide insight into production processes and costs to manage resources effectively

Gain valuable insight into production schedules, capacity loadings, shop floor activities, and production costs. View up-to-the-minute client, contract, and project management details for an accurate accounting of profitability. Manage co products and by-products in your formulas or recipes centrally and always know the correct inventory status for any given item. By tracking items from cradle to grave, your company can implement effective recall procedures with complete forward and backward traceability of any material.

Respond quickly to changing market conditions or new opportunities

Process Industries for Microsoft Dynamics AX helps you to tailor your production management system to meet the changing needs of your process operations. By modeling your production capabilities and providing accurate capacity planning and production costing, you can capitalize on new opportunities as they arise while complying with the legal, regulatory, and market requirements of individual markets and jurisdictions.

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 known as 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.

FEATURES

Fast RFQ development time	Shorten development time for requests for quotations (RFQs) and reduce risk by streamlining quoting and estimating processes.
Flexible planning and scheduling tools	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 understand 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	Monitor inventory using dual units of measure, 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 on each level of the formula or recipe.
Integrated quality control capabilities	Know the correct inventory status for any given item, including designations for quality control (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 units of measure. Enable customers to request multiple quality specifications per product while maintaining inventory visibility. Support highly flexible configurations and packaging types, while at the same time combining similar products in production to improve machine utilization.
Detailed production costs analysis	Analyze and monitor production costs and requirements for each component of a sales order using graphical representations of multilevel formulas and recipes.
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, reducing inventory, and eliminating waste.
Manufacturing process validation	Help accelerate and simplify compliance with requirements from regulatory agencies such as the FDA by validating manufacturing processes with Microsoft Dynamics AX for Life Sciences.
Extensive audit trails	Incorporate electronic signature functionality into your business processes, providing complete visibility and audit trails.
Web-based, workflow-enabled communication	Share information with employees via the Internet to maintain high production levels and on-time deliveries. Allow customers to order in their preferred unit of measure (UOM), and provide product availability, delivery, pricing, and other critical information to customers and suppliers through the Microsoft Dynamics AX Enterprise Portal.

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

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