

PROCESS INDUSTRIES FOR MICROSOFT DYNAMICS™ AX

Solutions for the Pulp and Paper Industry

Pulp and paper manufacturers face significant challenges from continued decentralization of the industry and overcapacity of plants. Process Industries for Microsoft Dynamics AX provides pulp and paper companies with tools to help them assess capacity options, create optimized production plans, boost supply chain efficiencies, and create a competitive advantage by focusing on customer service and margins.

Benefits:

- Balanced production based on demand
- Improved process control
- Support for make-to-stock, made-to-order, and mixed-mode environments
- Reduced inventories and improved customer service
- Positive return on investment (ROI)

Reduce Inventories and Improve Customer Service

Reduce inventories without compromising delivery performance. Accurately depict real-time inventory levels so you can adjust forecasts and inventory restocking points and help ensure adequate supplies. Prioritize accounts to support different customer service levels and generate production plans that minimize the impact of setup and changeovers.

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.

Streamline Production to Meet Actual Demand

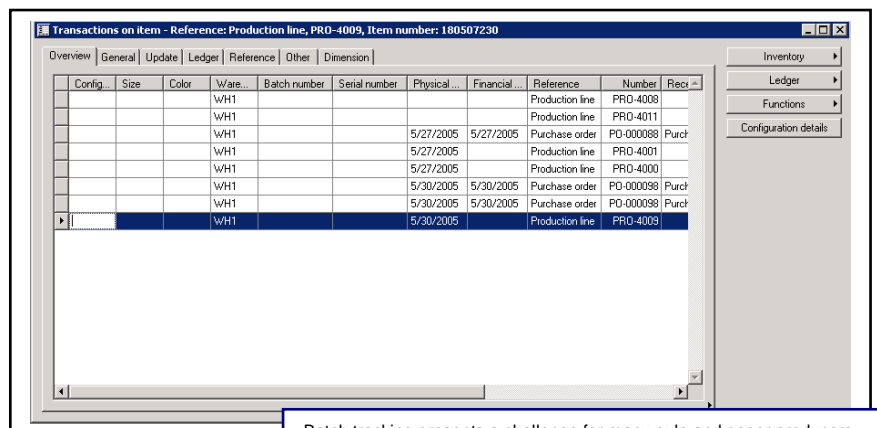
Control and optimize mill operations by developing production plans based on capacity options and customer demand. With visibility into the relationships among orders, production, inventory, and distribution, you can improve plant and asset utilization, lower operating and materials costs, reduce inventories, improve customer service, and minimize lost sales.

Improve Process Control

Consistently track and log all operations and results. Features such as traceability, lot requirements, production statistics reporting, specification management, and change management can help you gain exact control over materials, track complete histories and audit trails, and optimize yield. With flexible co-product and by-product functionality, you can segregate different yield results and effectively manage grade levels by specification.

Support Make-to-Stock, Made-to-Order and Mixed-Mode Environments

Process Industries for Microsoft Dynamics AX supports pulp and paper mills as well as converters, and handles commodity production as well as custom runs.



Batch tracking presents a challenge for many pulp and paper producers. Process Industries for Microsoft Dynamics AX enables users to capture the attributes and test results for every batch and provides a comprehensive batch location tracking function.

Features Overview

Input-Driven Process Specification	Accommodate an unlimited number of inputs and outputs within the process specification through a formula management system that defines all of the resources of production, including ingredients, machines, labor, utilities, and quality assurance variables.
Catch Weight and Recipe-Based Units of Measure (UOM)	Track and manage inventory simultaneously using two non-converted UOM, such as weight and area. Enter product volumes and weights based upon actual measurements rather than through UOM conversion routines to minimize material variances. Capture and use as-produced weight (catch weight) to ensure accurate inventory management and costing.
Attribute Tracking and Dynamic Formula Adjustment	Define and maintain an unlimited number of qualitative and quantitative attributes at the product and lot levels. Adjust formulas automatically based on the actual characteristics of input materials to ensure consistent quality of final products.
Co-Product/By-Product Management	Support co-product and by-product tracking to help optimize decisions, including analyzing the attributes and costs of co- and by-products, comparing the costs and benefits of selling or disposing of them, and crediting their values to the appropriate finished goods.
Batch Optimization and Balancing	Produce against given batch sizes, so every batch can be fully consumed. Maintain products that are most likely to be needed in stock. Batch balancing also ensures the coherence and traceability of multilevel production.
Yield Planning and Tracking	Establish yield standards using formulas, and track and report actual yields against those standards to quickly identify out-of-tolerance conditions, isolate the cause, and take corrective actions.
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 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 UOM to manage total weight, as well as shipping 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	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.
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.
Extensive Audit Trails	Incorporate electronic signature functionality into 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 UOM and provide product availability, delivery, pricing, and other critical information to customers and suppliers through an enterprise portal.

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

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