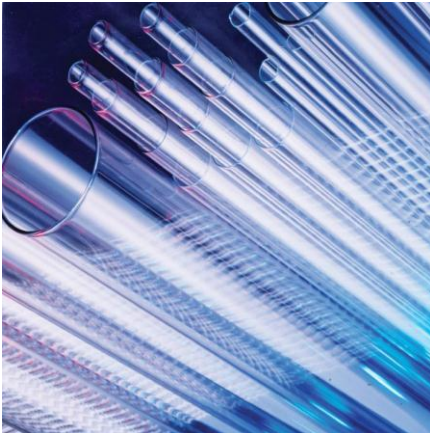




MICROSOFT DYNAMICS PROCESS INDUSTRIES

Pharmaceutical Industry Suite



Contact Armanino to discuss how we can help you with your Dynamics needs.

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Learn More
amllp.com/microsoft-dynamics

Life sciences and pharmaceutical companies depend on high sales margins, technological advances and rapid product introductions for strong business growth. With Process Industries for Microsoft Dynamics AX, life sciences and pharmaceutical companies have the tools they need to help manage the constrictions of such growth.

Armanino understands the unique challenges facing life sciences companies and implements this comprehensive solution to support your company's growth and facilitate the development of mandatory software validation deliverables with an easy-to-use FDA Validation toolkit.

Expedite Profitable Introductions of New Products

Gain visibility across all areas of your organization from finance to manufacturing with integrated information and workflows that speed the flow of goods, eliminate waste due to costly shelf-life expirations and returns, and optimize production operations

Support Good Manufacturing Processes and Regulatory Compliance

Process Industries for Microsoft Dynamics AX supports GMP requirements, including electronic quarantines, quarantine release by user and material type, printed material control/obsolete components, lot control/segregation, lot tracking, and drug and hazardous material reconciliation.

Traceability, lot tracking, production statistics reporting, specification management, and "can be" management

provide the control and predictability you need to detect and address exceptions early. By tracking items from cradle to grave, your company can implement effective recall procedures with complete forward and backward traceability of any material.

Improve Production Planning and Inventory Management

This software solution models the processing and reprocessing of materials such as costly active ingredients to help minimize overruns and short-runs, as well as uses shelf-life tracking to consider expiration dates during production and distribution.

Achieve 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. According to a study by Nucleus Research, Inc. conducted in 2004, 75 percent of participating Microsoft Dynamics AX customers achieved a positive ROI within an average of only 23 months.

Enhance Inventory Management

Pharmaceutical companies can centrally manage co-products and by-products in their formulas or recipes and can always know the correct inventory status for any given item.

accelerate validation initiatives. These templates are pre-populated and formatted for ease of use and editing.

The toolkit puts best practices at your fingertips, enabling pharmaceutical manufacturers and other life sciences manufacturers to quickly and cost-effectively navigate the complex validation process

FDA Validation Toolkit Enhancement

The FDA Validation Toolkit includes a comprehensive set of starter templates to

Features Overview

Feature	Capabilities
Process Industries for Microsoft Dynamics AX	<p>This comprehensive software suite provides accelerated new product introductions, GMP and regulatory compliance, improved production planning and positive ROI with the following features:</p> <ul style="list-style-type: none">• Input-Driven Process Specification• Attribute Tracking and Dynamic Formula Adjustment• Centralized Quality Control and Regulatory Support• Batch Optimization and Balancing• Yield Planning and Tracking• Co-Product/By-Product Management• Flexible Planning and Scheduling Tools• Customizable Item and Dimensionality Structure• Variable Inventory and Order Tracking• Integrated Quality Control (QC) Capabilities• Customized Product and Packaging Capabilities• Detailed Production Costs Analysis• Optimized Picking• Manufacturing Process Validation• Extensive Audit Trails
FDA Validation Toolkit	<ul style="list-style-type: none">• Comprehensive set of starter templates to accelerate validation initiatives• Updated Validation Master Plan (VMP) including risk assessment• Support for Latest Good Automated Manufacturing Practice (GAMP) 5 methodology

Representative clients

