

# Food Automation



## **Automation Solutions for Food and Beverage**

NorthWind has the expertise to make your manufacturing equipment run as efficiently, productively, and profitably as possible.



# Baking Solutions

NorthWind's experience in the food processing industry includes dough mixing, extruded snacks, grain milling, specialty ingredients, and much more. From this experience we have gained the process knowledge to effectively control ingredient transfer, **mixing & batching** systems, and everything in between.

We know the key to successfully automating mixing & batching systems is implementing the right recipe management system. BatchLOGIX®, our **recipe management software**, has perfected the management of all process and ingredient variables. With **lot tracking, material mapping, and information-rich reporting** capabilities BatchLOGIX offers a complete recipe management solution. Our mixing and batching experience has led us to develop a Dough Temperature Calculation that makes consistently hitting that **ideal dough temperature** a breeze.

Our team of dedicated Service Technicians are available for troubleshooting and remote support any time of day. Combine this with our process knowledge and controls expertise and you have an unbeatable **Automation Solution**.

## Recipe Management

Recipes are often very complex. BatchLOGIX®, our Recipe Management Software, is robust enough to incorporate all process variables, set points, and ingredient staging. Its flexible enough to easily manage your recipes and set your production schedules with minimal effort. Backed by an SQL database, customizable data-rich reports are at your fingertips.

## Traceability

BatchLOGIX tracks and stores lot numbers throughout your entire baking process. All of your lot information is stored in the database for quick report generation.

## Automated Hand Batching

BatchMATE is NorthWind's automated hand batching station that directly integrates into our recipe management and lot tracking software. Operators are prompted to scan ingredient lot and part numbers during the weighing process. This increases accuracy of ingredient management while transitioning record keeping to a digital form.



## Manufacturing Execution System (MES)



This powerful system can be everything from Overall Equipment Efficiency (OEE) for one area of a plant to a fully integrated solution with a paperless plant floor. Implementing these features takes deep process and control system knowledge and because every plant has different processes, machinery, KPIs, and process targets the best solution is going to be a tailored fit. At NorthWind we utilize production and process data for plant optimization with a manufacturing execution system developed for you, with you.

## Integrated Maintenance

AlarmLOGIX, an alarm management tool helps track control points, logs device usage, and sends notifications via email or text message on critical alarms. Machine diagnostic information and custom operator actions are integrated into alarm HMI screens. Contact a NorthWind representative to learn more about ways we can benefit your maintenance processes.



## PlantIQ™

PlantIQ is an AI platform that helps manufacturers reach and exceed their production goals. This scalable solution can be implemented on a single process area or encompass the entire business, connecting the plant floor to the rest of the business operations.



The AI Platform helping Manufacturers reach and exceed their production goals.

### **PlantIQ Agent**

PlantIQ Agent is a digital expert powered by generative AI and manufacturing-specific LLMs, offering solutions and recommendations to help operators and support engineers solve problems.

### **Knowledge Base**

The knowledge base compiles SOPs, manuals, training materials, transcriptions, process data, service tickets, and more. It continuously evolves through user interactions and feedback, improving the quality of answers over time.

### **Alarm Module**

The Alarms module leverages generative AI to interpret PLC and SCADA alerts, offering focused insights into system faults. It accelerates resolution through historical analysis, process data, and service ticket context.



#### **How Can AI Help Your Business?**

PlantIQ is a buildable, customizable platform designed to fit your needs. Its modular design allows additional tools like intelligent scheduling, logistics management, and machine learning to be developed for and tailored to your operation.



Thank you for your interest in NorthWind. We are committed to helping our customers improve their process through automation & cutting edge design. For more information please call or visit us on the web at:

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