

Blending Automation



Leader in the Plastics Industry

We have over 20 years of experience designing and building automation systems for resin blending processes.



Blending Optimization

Through our experience with blend tower controls, NorthWind has developed a programming strategy that optimizes the throughput of blend towers by minimizing batch delay times. Because batch times can differ depending on the type of resin, air temperature, humidity, time of day and a variety of other factors, NorthWind has devised a learning algorithm that **monitors the timing of critical batching steps** and **automatically changes delay times** utilizing predictive tuning methods. This strategy can increase batch throughput by up to two additional batches per hour, depending on the system size.

Our extensive knowledge and premier batching software allows us to create solutions that optimize blending processes and maximize your returns on equipment investments.

Plant Visibility

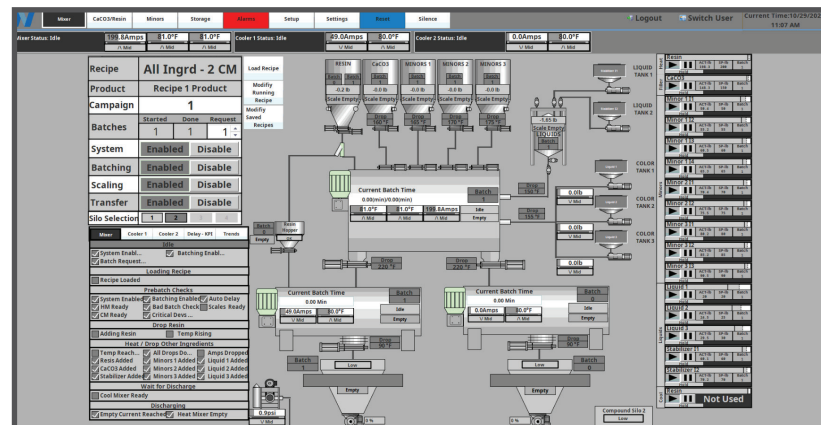
With one interface for all factory processes, plant visibility has never been more convenient. Graphical representation of equipment helps operators easily navigate the control system. HMI screens also show trending of equipment faults easing troubleshooting.

Weightment Accuracy

Ingredient filling is controlled by specialized algorithms that control the feed rates and cutoff points. This, combined with state-of-the-art instrumentation help ensure weightments are accurate, consistent, and timely.

Reporting

Our solutions organize and store data from process machinery including material usage, plant efficiencies, and system performance. This data is formatted into historical trends, alarm logs, and plastic industry reports, maximizing data available to make critical decisions.



BatchLOGIX Line Ingredient Usage Report

Selection Criteria:

Campaign: 150

Work Order:

Line:

Product: 8045 ETLIN

Scrap: Included

Ingredient	Total	
620	77,093.50	77,093.50
756NT	772.19	772.19
585	189.94	189.94
580	537.35	537.35
587	1,174.92	1,174.92
547	38,530.60	38,530.60
560NN	541.43	541.43
Total	118,839.93	118,839.93

Modernization



Turn-key Electrical Solutions

System modernization projects are complex and messy. With a NorthWind Turn-Key Electrical Solution the worry & hassel fades away. NorthWind integrates all systems from raw ingredient to compound storage into to one single process. Our Controls and Electrical Installation Teams work as one to ensure a smooth and quick switch over.

- Maximize Production with our Batch Delay Optimization
- Updated Electrical Drawings
- Replace Obsolete Electrical Components with Industry 4.0 Components to Create an Industrial Network
- Plant-Wide SCADA Integration
- Detailed Reporting
- Quick and Clean Electrical Installation
- System Startup & Commissioning

Plastics Extrusion

One of the largest benefits of a NorthWind controls system is added visibility of your process. By replacing old mercury switches with intelligent solid state relays you will have one interface showing all of the critical information for your extruder. You will receive alerts when critical areas need maintenance, monitor heat and loop breaks, as well as view run rates.



Partners

NorthWind Partners with Industry Leaders to deliver the highest quality technical solutions and customer service.



GOLD
System Integrator

A ROCKWELL AUTOMATION PARTNER





The NorthWind PlantLOGIX Suite of software is a powerful tool designed to streamline and simplify factory processes, taking your plant to the next level and allowing you to get the most out of your automation system.

AlarmLOGIX[®]

Data Tracking & Alarm Management Software

BatchLOGIX[®]

Recipe Management & Reporting Software

BatchMATE[®]

Automated Micro Ingredient Batching Station

PlantLOGIX[™]
NorthWind
SECURITY

Multi-Application User Access Management Software

The NorthWind QuikLOGIX[®] PLC Program Configuration tool shortens and simplifies the task of writing PLC code.



System Integrator of the Year

We are proud to announce that we have been named Control Engineering Magazine's 2023 System Integrator of the Year. This is the second time we have received the SIY award with the first being in 2019. This award is a tribute to the hard work and effort of the entire NorthWind Team.



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:

www.northwindts.com
785.284.0080