

Smart Factory

Unicol Srl

Introduction

UNICOL SRL, a leading company in the industrial manufacturing sector, embarked on an ambitious project to digitize and optimize its production processes.

This project led to the implementation of a centralized management system, leveraging state-of-the-art technologies integrated with the Niagara platform.

The primary goal was to improve operational efficiency and reduce costs, with a particular focus on energy management.



Unicol is a company specializing in the production of industrial adhesives. Since 1977, it has been offering advanced solutions for the wood, textile, and panel processing industries. The company, with a strong environmental focus, excels in solving and optimizing production processes, leading the market and exporting to 19 countries.

Context and Challenges

Before implementing the new system, UNICOL faced several common challenges in the manufacturing sector:

- **Raw Material Costs:** Limited ability to reduce raw material expenses.
- **Labor Costs:** The need to optimize labor through automation.
- **High Energy Costs:** Increasing importance of controlling energy costs in the production process.

The main challenges included the need for tighter, integrated control over production operations and reducing operational costs, particularly energy costs, in a context of increasing competitiveness and sustainability requirements.



Project by SMC, a DGS Company
Realized with the support and solutions of QuickLink Solutions

Since 1983, SMC has been a leader in digital transformation with 6 national offices and over 170 IT professionals. Specializing in advanced solutions based on Open Source technologies, SMC focuses on optimizing user experience and simplifying the integration of its solutions to enhance its clients' business efficiency.

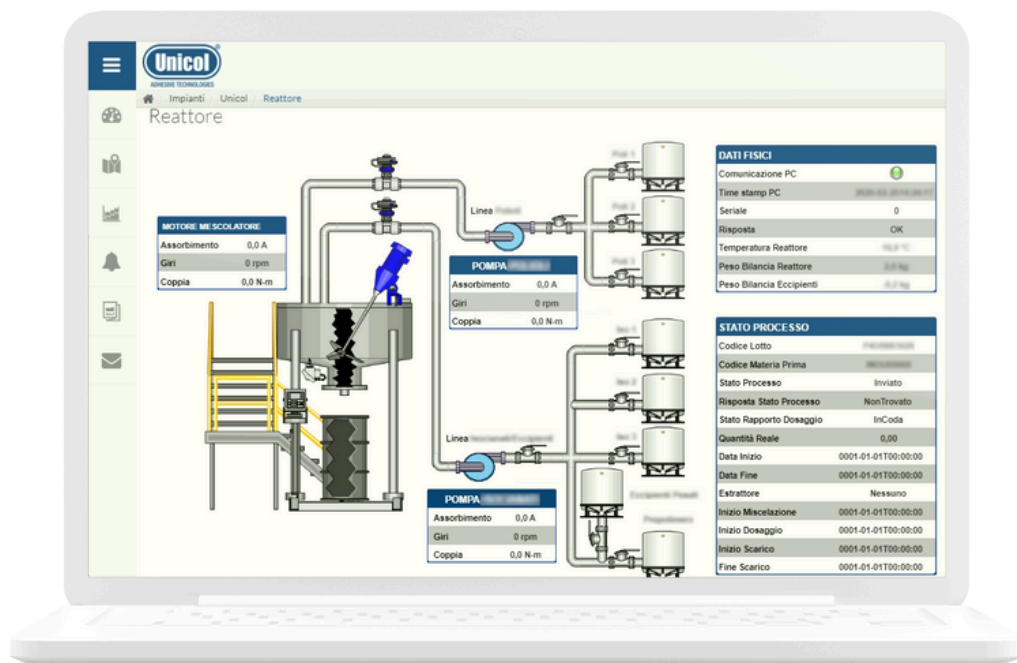
Implemented Solution

The adoption of EasyLink, a native supervisor on Tridium's Niagara platform, provides a comprehensive solution for monitoring and optimizing industrial plants. Seamless integration with Open Square, the company's information and management backbone, allows for connected monitoring, centralized control, and information analysis. The solution is innovative in two main areas:

- **Centralized Management of Production Processes:** By integrating company ERP systems with EasyLink, UNICOL has improved the efficiency and transparency of production operations through real-time control.
- **Energy Performance Optimization:** Implementing an advanced system to monitor and manage energy consumption in real-time, UNICOL gains detailed insights into the energy used at every stage of the production process.

easyLink

powered by
niagara
framework®



Benefits and Results

The implementation of the centralized management system and energy monitoring brought several benefits to UNICOL:

- **Operational Efficiency:** Reduction in production times and improved production management.
- **Energy Control:** Minimization of energy costs thanks to real-time monitoring.
- **Competitiveness:** Cutting-edge positioning through the adoption of advanced and sustainable technologies.
- **Sustainability for Industry 5.0:** Proactive preparation for future challenges of industrial transition, with a strong commitment to sustainability.

Testimonials

Unicol, as the end customer, directly benefited from the system integration, while SMC managed the project using the support and solutions proposed by QuickLink Solutions.

FINAL CLIENT

Ruggero Ricci Mingani, CEO of Unicol Srl

“ From a business management perspective, **the main advantage is the ability to have automated control over production times and methods.** We know exactly how long the production process takes, how long the palletizing phase lasts, and consequently, we can precisely calculate the production times and, therefore, the costs.

PARTNER

Marco Pernigotti, Sales Manager of SMC Treviso Srl

“ We discovered Niagara and **EasyLink** after thirty years of experience integrating machines and systems with CAM and ERP systems, and before the enactment of the Industry 4.0 law. This platform has allowed us to **simplify integration logic and time, but most importantly, it has enabled us to share information, such as energy and quality data,** that we couldn't manage before. We are now able to use this information for diverse purposes (improving performance in quality, plant control, and production and optimizing energy consumption). Thanks to Niagara and EasyLink, we have anticipated the times, making our Open Square Digital Lake platform compliant with the new Transition 5.0 regulations. Unicol is a clear success story of our solution.

WHO WE ARE – QUICKLINK SOLUTIONS

Since 2008, QuickLink Solutions has distinguished itself for its cutting-edge solutions in energy management for buildings and industry. Our solutions, based on Tridium's Niagara framework, make it simple and quick to configure, start-up, and maintain energy management systems. We operate as a Solutions Partner, providing innovative technologies through a network of certified System Integrators.