

# Process Automation, Real-Time Visibility, Proven Results.

Smarter food and beverage manufacturing starts here.

Cybertrol Engineering helps food and beverage manufacturers modernize operations with integrated automation, MES, and OT infrastructure. From advanced batch control and configurable CIP systems to custom reporting and production dashboards, our solutions are engineered for plantwide visibility, built to support compliance, and backed by responsive support and reliable performance.

## Plantwide Process Control

- Unified automation for all production processes
- Consistent PLC/HMI programming across all platforms
- Scalable architecture with ERP and MES connectivity

## Batch Control & BatchWorks™ Software

- ISA-88 batch control with recipe editing and scheduling
- PLC/server-based systems with ERP and MES integration
- Audit-ready reporting and full production traceability

## Configurable Clean-in-Place (CIP)

- User-defined cleaning steps, setpoints, and flow paths
- Detailed reports with trends, titration, and resource usage
- Cleaning optimization for time, water, and chemicals

## PalletWorks® Labeling & Tracking

- Real-time production and order fulfillment via web portal
- Bulk edit and reprint labels to any printer
- Accurate labeling with full item and pallet traceability

## Custom Reporting & Dashboards

- Batch, CIP, OEE, downtime, and performance insights
- 21 CFR Part 11 reports with full audit readiness
- Delivered via PDF, web portal, or mobile-friendly views

## OT Infrastructure & Cybersecurity

- Virtualization, segmentation, firewall, and switch setup
- Secure remote access, lifecycle management, and backups
- Built for uptime, scalability, and defense-in-depth

## Manufacturing Execution Systems (MES)

- Real-time visibility into production, traceability, and WIP
- Integrated with PLCs, HMIs, historians, and ERP systems
- Modular features for scheduling, genealogy, and quality

## Control System Design & UL Panels

- Full control system architecture and panel design
- UL508A/698A UL panel shop for custom fabrication
- PLC/HMI programming, standards-based documentation

## Functional Safety & Risk Reduction

- Safety risk assessments and mitigation planning
- Machine guarding and safety system retrofits
- Rockwell Machine Safety competency achievement

## Digital Transformation & Modernization

- Legacy system upgrades with minimal disruption
- Data modeling and contextualization for enterprise use
- Secure, scalable IT/OT integration for long-term growth

## Project Management & Documentation

- Lean Agile methodology from design through startup
- Simulation-based testing and phased deployment
- Standardized documentation and training deliverables

## 24/7 Engineering Support

- On-call engineers with food and beverage expertise
- Remote troubleshooting and on-site support
- Ongoing support to maintain performance and uptime



763-559-8660



info@cybertrol.com



cybertrol.com



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