

# Food and Beverage Manufacturing Solutions

## Systems and Services

Polytron, is a CSIA-Certified leader in engineering consulting and systems integration and is 2024 System Integrator of the Year. Applying 40 years of manufacturing engineering expertise, we deliver full manufacturing systems and solutions from process to material handling, to packaging and warehousing.

Polytron is uniquely positioned and fully qualified with certified, best-in-class systems integration talent and industry expertise.

## Getting Started

Polytron will provide solutions that help meet your business objectives while reducing risk and improving overall performance in:

- ▶ Packaging Systems and Material Handling
- ▶ Process Systems and Utilities
- ▶ Smart Manufacturing – MES/MOM
- ▶ Industrial Network and Security Solutions (INSS)
- ▶ Automation and Controls
- ▶ Emulation and Simulation
- ▶ Turnkey Project Management
- ▶ Machine Safety

## Food Sectors

- ▶ Crackers, cookies, chips
- ▶ Cereal, Cereal bars
- ▶ Sauces, Condiments, Jams, Dips
- ▶ Candy and Gum
- ▶ Pasta
- ▶ Oils
- ▶ Pickles
- ▶ Doughs, cakes, breads, biscuits, bagels
- ▶ Yogurt, Ice cream, Frozen foods
- ▶ Baby food
- ▶ Powders
- ▶ Nutritional supplements
- ▶ Pet Food

## Beverage Sectors

- ▶ Carbonated beverages
- ▶ Juices
- ▶ Raw product health beverages
- ▶ Dairy
- ▶ Bottled water
- ▶ Spirits, distilling, wine
- ▶ Beer and malt beverages
- ▶ Sport drinks
- ▶ Tea and coffee



## Food Manufacturing Capabilities

- ▶ Full process and packaging systems
- ▶ Continuous Process Automation
- ▶ Multi-format, high-speed packaging lines
- ▶ Multi-product packaging
- ▶ Batch processing and recipe management
- ▶ Tanks, equipment and installation
- ▶ Ovens and freezer systems
- ▶ Oil Blending
- ▶ Dry ingredient storage, blending, and mixing
- ▶ Laminating
- ▶ Blending, Homogenization, Pasteurization, CIP
- ▶ Can packaging lines
- ▶ Continuous production integration from oven to packaging and palletizer
- ▶ Complex packaging including; conveying, overwrapping, shrinkwrapping, foil and paper trays, baggers, sleeving, cartoning, case packing, and palletizing of fragile foods
- ▶ Facility consolidation for production efficiency
- ▶ New and reconfiguration of manufacturing lines
- ▶ Data Visibility from ingredient receiving through packaging, including company-wide performance, recipe management and integration with ERP system
- ▶ Track and Trace, Quality Analysis, FDA Compliance Reporting
- ▶ Downtime tracking, KPI Dashboards
- ▶ Metal detection
- ▶ Machine Safety risk assessments and mitigation
- ▶ Industrial Network Upgrade
- ▶ Warehouse capacity and automation optimization
- ▶ ASRS, AGV, manual, robotic and conventional palletizing

## Beverage Manufacturing Capabilities

- ▶ Full beverage process and packaging systems
- ▶ Multi-format, high-speed packaging lines
- ▶ Batch processing and recipe management
- ▶ Hot-fill aseptic PET, cartons, jugs, glass, aluminum can, pouches, plastic cup, production lines
- ▶ Beverage production line design, installation, PLC line controls and production supervisory system, and startup
- ▶ Syrup room design and relocation
- ▶ Data Visibility from ingredient receiving through packaging, including company-wide performance, recipe management and integration with ERP system
- ▶ Multi-facility consolidation for production efficiency
- ▶ Multiple bottling line reconfiguration for centralized palletizing
- ▶ New bottling lines
- ▶ Data management
- ▶ Track and Trace, FDA Compliance Reporting
- ▶ Machine Safety risk assessments and mitigation
- ▶ Industrial Network Upgrade
- ▶ Warehouse capacity and automation



# Turnkey Operations Solutions

Polytron provides a single point of contact for your projects with a comprehensive solutions offering including:

- ▶ Collaboration with your team to create the Functional Design Specification
- ▶ Development of the Electrical / Controls and Mechanical design based upon the Functional Design Specification
- ▶ Machine/System Integration and Programming
- ▶ OEM procurement and management
- ▶ Supply of electrical and mechanical hardware and installation
- ▶ Onsite support for construction management, debug and system validation
- ▶ Documentation and Training for performance continuity

Our certified Project Management Professionals apply a collaborative team approach aligning a comprehensive project team with your project objectives. Using our expert knowledge in best-practices and standards we ensure the highest degree of project success in all areas of the project.

## Industry Certifications and Affiliations



## Contact Us

Using our expert knowledge in best-practices and standards we ensure the highest degree of project success in all areas of the project.

Are you ready to take the next steps toward food and beverage manufacturing solutions? **Contact us.**

