

# Full Manufacturing Systems and Solutions

## Innovative Manufacturing Solutions

Polytron's expertise in full manufacturing systems and solutions meet holistic manufacturing needs across the plant floor – from raw materials through production to the warehouse.

Whether preparing to make capital investments for expansion or getting more from current assets, manufacturers confront hurdles and barriers to reach business objectives. The right capital investments will ensure the health and growth of your company. Deciding which systems to install, designing flexible solutions to meet long-term needs, and adopting the right technologies are critical factors that require experience, expertise, and a collaborative approach to successfully deploy.

## Services and Solutions

- ▶ Turnkey Program and Project Management
- ▶ Machine Safety
- ▶ Process Packaging
- ▶ Industrial Network & Cybersecurity
- ▶ Smart Manufacturing / MES / MOM
- ▶ Automation / Controls
- ▶ Digital Transformation
- ▶ OEE Improvement
- ▶ Batch & Recipe Management
- ▶ Simulation and Emulation
- ▶ 3-D Point Cloud
- ▶ Concept to Commissioning
- ▶ Line Assessment & Design
- ▶ Multi-Format / High-speed Packaging Lines
- ▶ Obsolescence Upgrade

## Why Polytron?

- ▶ Almost 40 years of project management, electrical, mechanical, and chemical engineering in the food, beverage, and CPG industries
- ▶ Smart manufacturing technology leader
- ▶ Long-time expertise in process and packaging
- ▶ National & international coverage on request for global sites
- ▶ Certified PEs and PMPs / TÜV certified safety engineers
- ▶ Depth of certified technology expertise: Rockwell Automation, Wonderware, Siemens, Parsec, Cisco, Panduit
- ▶ Results-driven project management



## Turnkey Solutions

Polytron provides a single point of contact for your projects with a comprehensive solution 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

## Packaging Turnkey

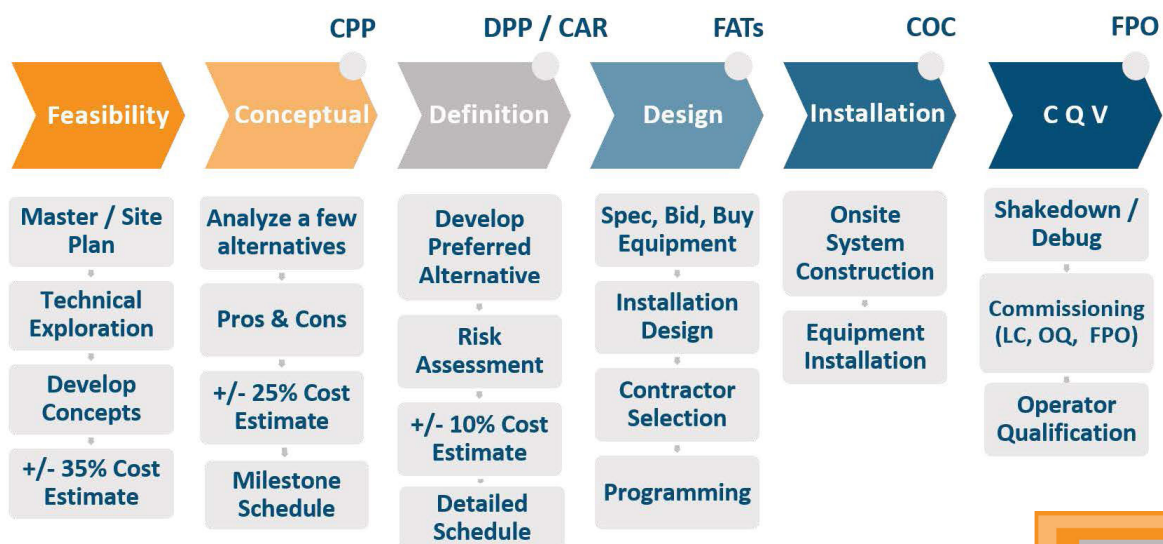
For flexible lines, complicated system designs, OEE improvement, or unusual packages, Polytron has the technical know-how and dynamic solutions to address, improve and enhance each one. We combine best practices across multiple industries to come up with the right packaging solution for your unique challenges.

By offering turnkey automation solutions from concept to virtual commissioning, implementation, and workforce training, we help you maximize operational efficiency from beginning to end with options and solutions designed for your specific product variations.

Polytron delivers complete integrated packaging solutions including:

- ▶ **Material Flow** – Increase your system throughput and reduce waste.
- ▶ **Line Layout** – Optimize your line layouts with 2D and 3D visualizations.
- ▶ **Equipment Specification and Selection** – Select the right equipment from the right vendor.
- ▶ **Product/Package Flexibility** – Coordinate with your marketing and engineering groups to ensure flexibility—across the board.

## Polytron Objective-Focused Method



## Lower Your Risk

Today's speed of business increases your risk on any manufacturing project. Tied to the project are production deadlines, product promotions, stakeholders, and vendors who have never worked together before, and as always– the ROI.

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.

A customized approach to your engagement addresses all the possible variables, and through our project management methodology – the glue that holds everything on the project together – we are able to deliver within project scope, on time and within budget.

## The Power of Emulation

For 20 years, Polytron has been successfully using simulation and emulation technologies to help diverse manufacturers expand and make major changes and decisions – without the stress and risk that comes with guesswork.

In manufacturing, the key to success is to manage risk and eliminate the unknown to the highest degree possible. Emulation is a strategic tool that lets you troubleshoot and perfect engineering solutions in a safe digital environment resulting in:

- ▶ Lower overall investment risks
- ▶ Reduced on-site testing time and costs for shorter startup time
- ▶ Increased control system quality
- ▶ Earlier controls testing in the project cycle
- ▶ 95% debugging and verification before installation

## 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 full manufacturing solutions? [Contact us.](#)

