

Mitsubishi Electric Supports Flexibility and Efficiency in Food and Beverage Production Through Automation

Growing product diversity, evolving consumer expectations and the need for greater speed in production processes are driving demand for flexible automation solutions across the Food and Beverage industry. Mitsubishi Electric responds to these evolving requirements with technologies that support rapid product changeovers, a common automation architecture that can be applied across different production environments, and a single-supplier approach.

As consumer expectations continue to diversify, Food and Beverage manufacturers are facing the need for more frequent product and format changes on their production lines. The ability to handle different packaging formats on the same line, perform rapid recipe changeovers, maintain high hygiene standards and ensure production continuity have all become key priorities. Mitsubishi Electric addresses these evolving requirements through its automation solutions, while enabling machine builders to apply the same automation architecture across a wide range of applications.

A Common Automation Architecture Across Different Production Applications

Food and beverage manufacturers increasingly need to switch between different products and packaging formats on the same production line within short timeframes. Lengthy format changeovers, however, can complicate production planning and directly affect efficiency. Mitsubishi Electric's recipe-based control approach allows different product scenarios to be managed through a single system, enabling faster changeovers between different product weights, packaging formats and product varieties. This helps production lines adapt more quickly to changing requirements while contributing to reduced downtime.

From dairy processing to beverage production, Mitsubishi Electric enables manufacturers to use a common automation architecture based on its automation components across a variety of Food and Beverage applications. This allows existing engineering expertise to be applied to different projects and enables applications to be developed within a scalable framework according to specific production requirements.

A Single-Supplier Approach Simplifies Project Management

In automation projects, sourcing components such as PLCs, servo systems, HMIs, drives and industrial robots from multiple manufacturers can increase the complexity of system integration. Coordinating with different suppliers for technical support can also have an impact on project timelines.

Mitsubishi Electric provides its automation components through a single-supplier approach. By developing solutions within a common automation architecture, the company supports coordination between system components while enabling project management and technical support to be handled through a single point of contact.

Extended commissioning times, unplanned downtime and maintenance activities can create significant costs for manufacturing facilities. At the same time, food safety and traceability requirements are increasing expectations for automation systems to provide comprehensive capabilities. Mitsubishi Electric's automation solutions support the effective management of production processes through rapid commissioning capabilities, remote diagnostics and support, as well as a predictive maintenance approach.

With an automation approach designed to respond to the evolving needs of the Food and Beverage industry, Mitsubishi Electric continues to simplify engineering processes while contributing to the development of flexible, scalable and sustainable production systems.