

Predictive Analytics Solution Food & Beverages Industry Application

Solutions originating from the shop floor comprised of factory automation (FA) and Edge IT systems, leveraging the knowledge of shop floor and cutting-edge technologies to achieve the overall optimization of manufacturing.

e-F@ctory Promotes an “Open” Shift in order to accelerate collaboration and innovation in the manufacturing for Greater Sustainability

Production Lines

With demand for food and beverage at an all-time high, production facilities must do all they can to reduce downtime. It is critical to not only keep up with demand but also to stay ahead when possible. Weak links in the production line can bring the whole system to a halt, a costly risk for any facility.

Problem Statement:

Proper heating and cooling is essential for production lines in the food and beverage industry. A slight change in temperature can drastically affect production lines, resulting in a spoiled product. Fans in these applications are critical. But, if product build on the blades causes imbalance, it can lead to a catastrophic failure. Ventilation fan or blower failure can also cause improper formation or bake of a product where the only option is to scrap material that could've otherwise been profitable. Heating and cooling equipment can often be a bottleneck in that all products need to pass through one oven, leading to a choke point in the event of equipment failure.



Solution:

Mitsubishi Electric's Predictive Analytics Solution strengthen your food and beverage production line by providing frequent, reliable monitoring of assets and alerting your team of changes in a predictive manner. Inconsistent and irregular condition monitoring can leave room for significant issues with little to no time for corrective action.

Benefits:

- Improve quality by 5%
- Reduce Production losses by 10%
- Reduce equipment maintenance cost by 10%

Production Lines

Adapting new technologies and processes will be a necessity for food and beverage. The integration of innovative applications, advanced equipment, and better automation translates to an improved product (in regards to food taste and safety), an increase in productivity and efficiency, and reducing unscheduled machine downtime.

Problem Statement:

- Under-utilized production equipments
- Quality issues in the production lines
- Equipment failure causing production loss

Solution:

Mitsubishi Electric's Predictive Analytics Solution conditions in machinery and equipment (temperature, pressure, humidity, vibration, etc.) in order to identify performance anomalies during operation. Over time, these indicators of equipment and system health will become easier to predict, allowing for the appropriate measures to resolving issues before escalating into serious complications and resulting in machine downtime.



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