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Master Track

A space-saving data driven solution for your quality assurance needs

The intelligent tracking system of FleXinspect Generation III inspects and measures critical aspects of the container quality, before removing defective containers from the production line.

Monitoring the operational status of the equipment, and correlating all inspection results for each container to its cavity number and/or ID number, glass makers can make the most informed decisions about the process quality.

Because data matters

Master Track is a comprehensive solution that ensures every container undergoes a thorough quality assessment.

When using conventional methods, containers are rejected at the first sign of defect, Master Track follows each container through every stage of inspection. By collecting and analyzing data across all checkpoints, the service provides a holistic view of each container's quality. This means decisions to pack or reject are made having complete information, optimizing the quality control process.

By ensuring no containers are discarded without a complete diagnostic review, it reduces the risk of overlooking compound issues that could be addressed simultaneously, saving time and resources while improving key metrics like pack to melt (PTM) and unplanned downtime. Moreover, the space saving design of the system enables more efficient plant layouts enhancing operational efficiency.

Master Track essential hardware

All inspection machines need to be installed on the same conveyor without parallel transfers or devices that would change a container's position.

CS4 container separator

The servo driven CS4 separator positions each container in the center of a timing tracking window of the FleXinspect T or FleXinspect M allowing containers to flow directly from the spacing device, through the vision machine(s) and into the mechanical machine.

IQM

Using photo sensors, and encoder information, the IQM (Infeed Quality Monitor) is the first protection device on the line, removing down, damaged or incorrect ware that could stop or damage the equipment.

Vision machines: FleXinspect B and/or FleXinspect C

All results from the vision machines are correlated to the Master Track ID tracking number and passed on to the down stream mechanical machine. Containers with specific defects that could damage or break within the mechanical machine can be removed after the vision machines. Containers with standard defects are flagged as defective and continue to be tracked into the next machine downstream. Final inspection results are correlated to the Mold # of the container and/or ID marked matrix code number.

Master Track essential hardware

Mechanical machine: FleXinspect M, FleXinspect T or FleXinspect T180

The mechanical machine is the core of a Master Track production line. In addition to performing its own inspections, the machine ensures that every container is accurately tracked throughout the production process.

The intelligent tracking system for FleXinspect Generation III equipment is designed to enhance the quality control process in glass container manufacturing. Here's how it works and the benefits it offers:

Key Features:

1. Comprehensive Inspection:

- **Critical Aspect Measurement:** The system inspects and measures critical aspects of a container's quality, such as dimensions, surface defects, and structural integrity.
- **Defect Detection:** Identifies and tags defective containers before they are removed from the production line, ensuring only high-quality products proceed.

2. Data Correlation:

- **Cavity Number Tracking:** Correlates inspection results with the cavity number or ID number of each container. This traceability helps pinpoint where and when defects are originating in the production process.
- **Process Optimization:** Provides detailed insights into which avities may be producing higher rates of defects, allowing for targeted interventions and process improvements.

3. Informed Decision-Making:

- **Quality Control:** Enables glass makers to make informed decisions about the quality of the production process. With detailed inspection data, they can identify trends and address issues promptly.
- **Efficiency Improvement:** By understanding the specific sources of defects, manufacturers can optimize production parameters, reduce waste, and improve overall efficiency.

Benefits:

1. Enhanced Quality Assurance:

- The system inspects and measures critical aspects of a container's quality, such as dimensions, surface defects, and structural integrity.

2. Increased Efficiency:

- Real-time monitoring and data correlation help streamline the production process, reducing downtime and improving throughput.

3. Data-Driven Decisions:

- Using the complete inspection results data allows glass makers better control the process and apply continuous improvement, helping manufacturers stay competitive and responsive to market demands.

In summary, the intelligent tracking system for FleXinspect Generation III equipment significantly enhances the glass container manufacturing process by providing detailed inspection data, improving quality control, and enabling more informed decision-making.

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