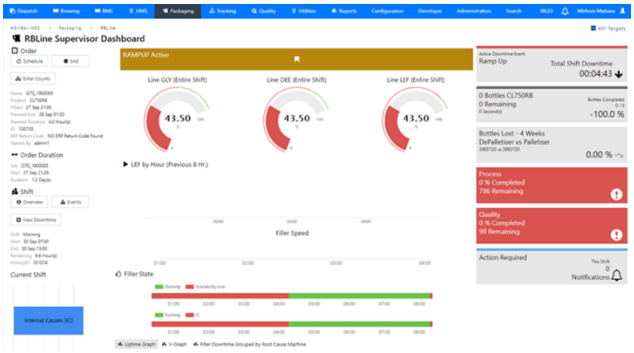
Automated Control Concepts
Smart solutions.

CASE STUDY

END TO END TRACEABILITY – BEER BREWING AND BOTTLING

ACC supports brewery development of a configurable template global MES solution that could be deployed with the goal of deployment world-wide.



THE STARTING POINT

One of the world's largest brewers partnered with ACC to realize their digital transformation initiatives. With locations all around the globe, their primary need was a configurable MES solution that would be easily packaged and deployed by local partners.

THE CHALLENGE

Brewing is not basic food and beverage manufacturing; it is an art which requires many tests during the process which lead to adjustments that are needed to produce the same quality product. Traditional breweries have a brew book which keeps track of all tests done along the brewing process and adjustments made. ABI's goal was to have a system that captured all this information digitally and make adjustments automatically. Having this system would ensure the same standards were kept across their 150+ facilities globally.

PROJECT GOALS

The primary goal for the brewery was to provide a single source of truth for brewing, packaging, performance and quality consistency. Utilizing cockpits concepts, the operator is guided through the process step by step. Samples are taken multiple times during the process to ensure the proper adjustments are made. The MES system enforces the rules of the new electronic brew book; capturing digital data such as real-time in-process samples (temperatures, flows), sample-based lab data (Anton Paar instruments, alcohol analyzers and meters), and in-line quality data (event/sample based data from analytical devices). A bluebox, Copadata Xenon SCADA, is located at every facility and is the centralized data source for all brewing and bottling.

IMMEDIATE RESULTS

With the new MES, a standard set of KPI rules were applied across all facilities. The information was automatically collected and benchmarked performance data in a consistent, structured manner. The system is easily replicated and translated into many languages for global deployment.

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