

Historical Liquor Brand in China Saves \$1.2 Million per Year by Automating Measurement Processes

RESULTS

- Reduced costs by \$300,000 per year by avoiding product losses
- Enabled savings of \$1.2 million per year due to increased accuracy of flow measurement
- Increased process uptime and quality assurance



The distiller used Micro Motion Coriolis meters to increase accuracy and reduce product loss.

APPLICATION

The distiller needed to measure their liquor for consistent flavor and quality (e.g. ABV%). Accurate measurements were especially needed for their high-tier products to maintain quality and to reduce product loss.

CUSTOMER

The customer produces baijiu with traditional methods and is one of the oldest distillery brands in China.

CHALLENGE

Due to ABV% manual sampling, the distiller experienced measurement inaccuracy, reduced operational visibility and uncertainties, and costly product wastes. The liquor brand also experienced blending inaccuracies due to entrained gas that is often found in the process. A new system was needed to increase efficiency, maintain quality and reduce product loss.

SOLUTION

The distiller installed Emerson's Micro Motion Coriolis meters for liquor internal custody transfer and blending to meet precision standards. With Emerson's Fork Density Meters (FDMs), operators were able to measure for real-time quality assurance and control. They automated processes with FDMs to displace manual sampling.

To help manage the increase in process data, diagnostics, and actionable information available, the distiller connected their instrumentation for remote monitoring with Emerson Connected Services System and Team. This enabled the liquor brand to continuously monitor quality, reduce maintenance costs, and increase production.