



Automate Traceability and Eliminate Blending Errors with CC+I's Batch Verification System

Batch Verification System

Computer Control + Integration, Inc.

Beverage Suite

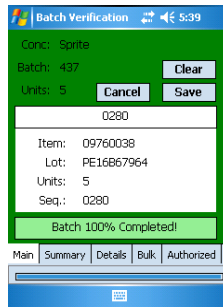
Key Benefits:

- Concentrate verification at staging, catching blend errors before they occur
- Complete component verification—everything is there, nothing short, nothing over, no foreign components
- Reduced manual data entry by operators (concentrate lot/fill numbers)
- Increased accuracy of data (lot numbers, etc. are scanned rather than keyed)
- Automatically captures concentrate lot numbers for traceability assistance
- Assist blenders with recipe component requirements
- Alert operator for aged components that have exceeded the expiration date
- Wireless networking provides real-time data updates of usage
- The ability to date/time stamp material usage.

Error-proof your batching operations to deliver better products faster, reduce manual record keeping, control costs, and improve batch consistency.

One of the most critical processes in a modern beverage production facility is accurately blending of the raw materials that are used to produce the finished product. A single mistake at this level in the process can cost anywhere from a few minutes of downtime in the production process, to the loss of a single batch of expensive ingredients, and in a worst case scenario, an extremely costly product recall.

Blending operators, while generally the more experienced employees in a facility, are required to combine the proper ingredients for every batch with zero errors. Additionally, these operators are required to accurately track the usage of components and record source lot numbers of each ingredient used in each batch for FDA traceability purposes.



Eliminate Errors and Improve Traceability

With the increased complexity of exploding SKUs, multi-part batches, and varying shelf-life of components, it is almost a certainty that there will be a costly mistake made in the blend room. The only unknown question is "How much is this mistake really going to cost the company?"

The Batch Verification System developed by CC+I, gives you a real time solution to "error proof" your blending operations. A cost effective approach to automatic verification and data capture that provides the blending operators with constant access to current recipe formulations, verifies components accurately, assembles an electronic "paper trail", and tracks inventory using a simple and reliable automatic data collection method.



Portable Wireless Scanners

System Highlights

Automated Data Collection of Concentrate Receipts/Usage Barcode Technology

- Eliminates manual data entry associated with receipts and usage
- Automatically captures concentrate lot numbers
- Increased accuracy through the use of barcode technology
- Wireless networking provides real-time data updates of receipts / usage
- Date/time stamp receipts as they enter the plant, where material age can be determined and oldest used first.
- Eliminates the need to perform daily manual concentrate inventories
- Simultaneous real-time receipts and usage data collection
- Inventory plant location can be designated for each unit

Real-time Validation of Concentrates for Every Batch Before Blending

- Eliminates possible blending errors before they occur
- Insure that all required components are included
- Alert operator for incompatible materials
- Verifies unit sizes for all components
- Assist blenders with recipe component requirements
- Direct blenders to components by age of component
- Concentrate verification using barcode technology for every batch
- Automatically captures concentrate lot numbers for traceability assistance
- Real-time updates to inventory tables for each syrup batch produced

Complete Batch Management Information Software

Eliminate Batching Errors

- Concentrate verification at staging, catching blend errors before they occur
- Verify shipments to insure components delivered match components ordered

Operator Performance Measurements

- Error log measures operator performances for team comparisons and accountability
- Improved verification of concentrate shipments

Screen for Expired Material

- Screen for potential out-of-spec product based on receipt date / shelf life

Real-time Feedback

- Handheld displays allow operators to get immediate feedback on their concentrate scans.
- Audible feedback alerts operators to potential errors in selected components, including invalid components, out-of-date material, wrong amount of material, and incomplete batch.
- Immediate data updates of receipts / usage through wireless connectivity

View and Print Reports

- Real-time concentrate inventory reports
- Raw materials receipt reports available for any time period
- Usage Reports available for any time period
- Individual batch reports with concentrate lot numbers
- Filtering report data by operator id, shift, etc.
- View Inventory Costs by component based on cost per unit
- Syrup batch production reports available for a complete traceability history



Ruggedized handheld allows operator to scan components quickly and accurately.

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Systems with Value, Plus.



Computer Control + Integration, Inc. (CC+I, Inc.) was founded by a group of design engineers and top management personnel charged with the responsibility of designing, developing and successfully implementing computer integrated manufacturing systems used internally throughout a large multibillion dollar manufacturing corporation. In July 1988, this group formed a private company and began applying this same factory floor automation and management information systems experience to different manufacturing sectors, in particular the food and beverage industry.

For more information about systems that CC+I has developed and implemented for the beverage industry, call us today at 864-458-7587.

www.ccplusi.com