SG SYSTEMS
The Traceability Company

# V5™ CONTROL CENTER

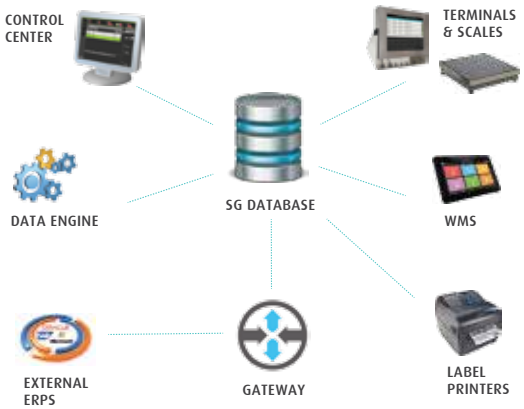
WEDDERBURN
SINCE 1896

## V5 Control Center

SG Systems Control Center Software allows setup and control of key daily production and inventory control requirements.

Core modules include WMS (Sales Order & Purchase Order Picking), Recipe Formulation (BOM Setup), Production Planning & Scheduling, Finished Product Creation & Label Setup, SPC, Quality Assurance & Operator Privileges.

The software provides full traceability for companies requiring a single solution to track materials from receiving to shipping, including the respective batching and production processes. It also acts as middle-ware for companies looking to extend ERP and accounting software functionality to include real time production floor data.




Software licenses & production hardware (touch screens, scales, bar code scanners, mobile computers etc) communicates with a single SQL database, providing local and remote connection to single and multi site operations.

## Recipe Formulation

Recipe Formulations contain unique codes and descriptions, versions, production locations, BOM (Bill of Materials) and label printer types.

Commodities exist as steps in the formulation with required quantities (+/- tolerances) & production locations. Hierarchical software allows BOM within BOM as complete or partial additions. Batch edit allows on the floor changes to formulations under password control.

## Inventory Management

Received inventory is lot controlled after completing a receiving process to ensure strict QA processes are followed. Adjustments and withdrawals can be made easily.

Inventory is consumed using Recipe Formulation Systems or Finished Product Creation Terminals. This auto reduction process provides perpetual inventory and minimizes the need to hold surplus quantities. Automatic Bulk Ingredient FIFO is controlled using the Bulk Control Terminals.

## Production Scheduling

The Production Planning & Scheduling module allows recipe batches, finished product and QC requirements to be scheduled centrally and executed by the respective shop floor terminals.

Batches are scheduled by quantity, mix size, production location and yield. Scheduling finished product requirements automatically calculates the number of batches required and mix size, considering product output and yield.

## Quality Assurance, Safety & Allergen Control

The QC module is a central repository for quality control procedures, question and responses for commodities, formulations and locations.

QA Events allow specific actions (inventory receiving, moving, adjusting, withdrawing, quarantine etc) to prompt for specific questions. Time & Operator stamping of responses provides validation that the response is viable.

## Purchase & Sales Orders

Supplier PO and Customer SO can be entered into the SG Systems software directly, or imported from existing Accounting or ERP software.

The software allows editing of PO/SO from shipment back to inventory, providing a flexible solution for 'high change' environments, commonly found in companies with high order frequency and multiple SKU's or a perishable nature.

## ERP Gateway (Import / Export)

ERP Gateway from SG Systems is designed to speed up the transfer of electronic data between software systems (customer ERP / MRP or Accounting Systems) using customizable CSV files. All data required for the V5 Control Center can be imported or exported using event or timers.

Gateway prevents human errors commonly associated with manual traceability paperwork used to support Inventory, Production, Formulas (BOM's), Sales Orders and Purchase Orders).

## Operator Controls

Controlling Operator access is a critical part of any manufacturing execution system. Many permissions exist in the standard software, allowing you to define which person has access to specific functions.

Operator logins can be color coded, allowing high contrast production screens to display the selected color for rapid login identification at critical control points.

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