

# Matisssoft



## BATCHING

The batching system controls the measuring of liquid and/or solid ingredients in the batching and dumping cycles, hand-adds, and product routing to destination bin. The system can manage contamination through its flushing and incompatibility functions. The system also collects product tracking information.

### **BATCHING SYSTEM FEATURES**

This system is built to enhance productivity and measurement accuracy. Following are some of its features:

#### **Interface**

- Display process information

#### **Operation mode**

- Automatic
- Manual with a computer keyboard

#### **Formula management**

- The formulas are manually updated or electronically updated in our system by your administrative system or an outside system.

#### **Order management**

- The orders are manually updated or electronically updated in our system by your administrative system or an outside system.

#### **Batching production scheduler**

- Prioritizes as many orders as you like
- Enables you to customize formulas through the addition or removal of one or more ingredients
- Classifies formulas by type
- Accepts substitute ingredients



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### Measuring control

- By conveyor or gate
- Free-fall weights obtained by calculating the average of the previous four measurements
- Manages 2 measuring speeds; configurable per bin
- Manages 2 jog levels; configurable per bin
- Manages minimum flow rate; configurable per bin
- Manages measuring tolerances with warning and critical levels. Tolerances are calculated by actual weight and in percentages
- Manages the all measuring scales simultaneously
- Manually controls hand-adds with an operator interface with a Hand-Add scale. For larger hand-adds, a printer can print out a coupon with the list of the ingredients, and the total weight of the ingredients will be measured and verified by the main scale during the batching sequence.
- Manages liquids in mixer or an applicator

### Contamination management

- Flushing function
- Incompatibility function
- Dedicated bin function
- Tracking management
- Conservation of information on the batching lots
- Tracking system reset to zero when a bin is empty
- Conservation of bin history

### For bagged products

- System enables operator to indicate the number bags that have been filled, after bagging

### Available reports

- Production Report sorted chronologically for a given period
- Batch Mixture Report



- Production Report sorted by operator for a given period
- Production Report sorted by client
- Production Report broken down in batches for a given period
- Ingredients Used Report for a given period
- Bin Activity Report
- Tracking Report
- Warning Report for a given period
- Alarm Report for a given period.
- Substitute Ingredient Report
- Production vs Inventory Report

### **Evaluation of the system's operating time**

- A report provides information on production time and use of the batching system.

### **Available features**

- Bar code identification for hand-adds
- Inventory reconciliation of hand-adds
- Scale readouts using Allen Bradley remote i/o communication
- Transfer of the quantities of ingredients used and formulas produced to administrative system

### **HOW IT WORKS**

Batches can run in either autonomous or controlled mode. In controlled mode, the operator has to confirm the start of production for each batch. In autonomous mode, the system will run the batches without the need for human intervention.

To start production of a batch, the system needs to know the following:

- Batch quantity
- Formula
- Ingredients being used



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- Destination bin
- Operator's name

Information can be added as needed, such as customer name, bin number, etc.

Once all of the required information has been entered, the system will automatically start up all equipment required and advise the operator to prepare any hand-adds.

The system will inform the operator of the necessary ingredients, and sound an alarm when measuring quantities are out of range.

The system will ask for confirmation of the hand-adds, then route them to the mixer.

If the system is being used in manual mode, the operator must follow the instructions from the computer keyboard to update the inventory of ingredients.



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