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SYSTEMS & CONTROLS, INC.  
Automation ~ Batching ~ Process ~ Systems

## The Challenge

Develop custom controls for a sugar conveying, grading and separation system.

## The Solution

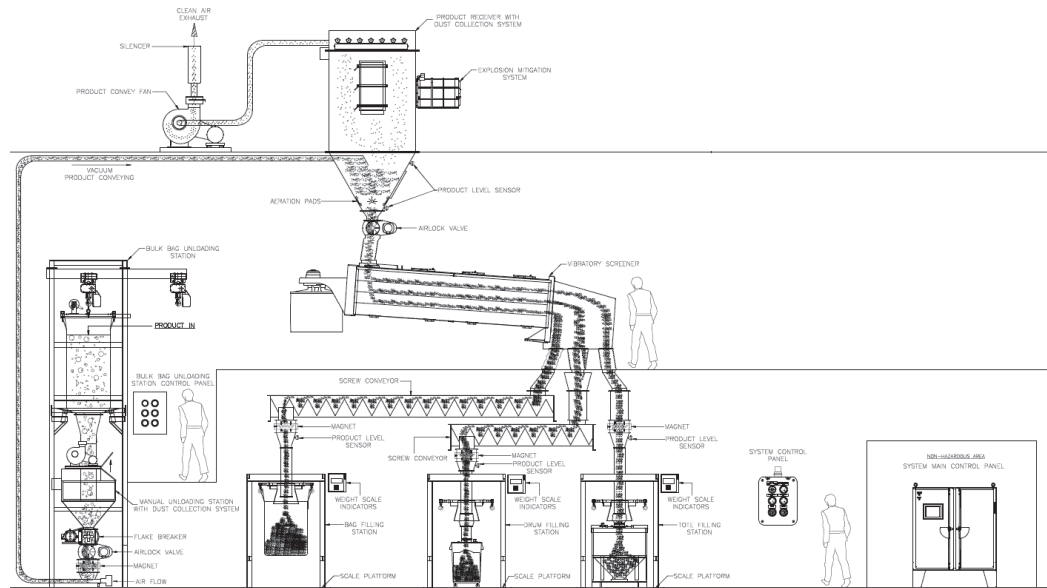
A space saving controls system with a network of strategically placed control panel to ensure employees had the necessary information and controls when needed.

## System Valuation

A Controls Solution similar to the one featured here will typically range in price from \$70 - \$80 Thousand. The price is subject to change due to project requirements and selected options. Call for current prices.

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# CONTROL AUTOMATION CONVEYING AND GRADING SYSTEM



## OVERVIEW:

Sterling Systems and Controls was tasked with creating an automation control system for a sugar grinding and conveying system.

## THE CHALLENGE:

Develop controls for a conveying/sifting system capable of unloading bulk bags of coarse granulated sugar at a customer specified rate and grading the product into three mesh sizes for future process needs.

## THE SOLUTION:

Sterling provided a space saving control system to guarantee proper transfer of material to the screener from the dilute phase vacuum conveying system.

A local control panel provides the operators with all the system information needed to start, operate, troubleshoot, pause, and stop the system.

The main control panel provides the junction for all the equipment connections, information received from the field, and signal inputs/outputs necessary for proper operation.

For time saving purposes and convenience of operation, an automated bulk bag unloading station with a manual dump option was selected.

Handling operation was made simple with an integrated winch for lifting

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bulk bags to desired platform height for unloading. This station is equipped with pneumatically operated massage paddles that agitate packed material and assist with flow out of the bulk bag. To take care of safety concerns, a dust collection system was installed on the unloading station.

After the product separation process, three different product particle sizes are discharged and transferred to their final destination by screw conveyors. The desired quantities are then collected at the filling stations and determined by the integrated scale platform with weight indicators.

## **ABOUT STERLING:**

Sterling Systems and Controls, Inc. offers over 40 years of experience in providing efficient and unique solutions for batching, applications, and providing micro, minor and bulk weighing systems. We utilize the latest technology in data management, raw material and production data tracking.

Call 1-800-257-7214 and we will recommend for you a custom solution based on your specific application.



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Serving your processing needs for over 40 years.