

# CASE STUDY - FLOUR PRE-MIX SYSTEM

S. Howes, Inc. was approached by a food processor that needed a new system to batch mix various ingredients into a flour base and package the product for final delivery. The customer requested that S. Howes assist in the design of the entire system and provide all key components of the process.

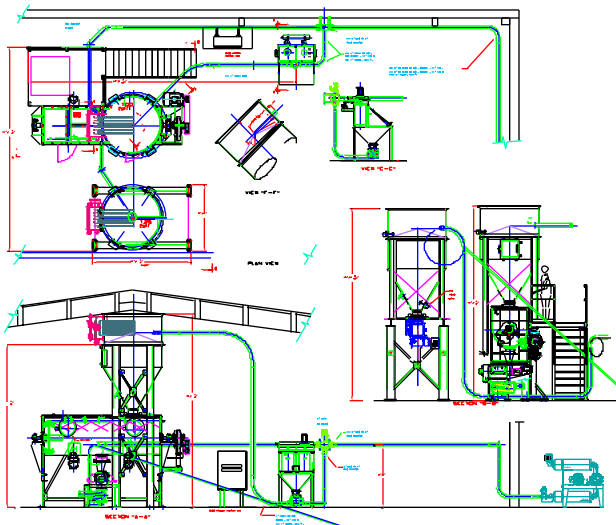
Although S. Howes, Inc. has nearly 150 years of experience designing and manufacturing many types of processing equipment, the design of this system was particularly challenging due to space constraints and low ceilings in the facility.

## Components:

- Bag Dump Station
- Pneumatic Conveyor - A
- Surge Hopper w/ High level Indicator
- ES-4212 Double Ribbon Blender
- Centrifugal Sifter
- Pneumatic Conveyor
- Surge Hopper w/ Level Indicators
- Bagging Scale
- Bag Closer
- Belt Conveyors
- PLC Control Panel for Complete System Operation
- Mezzanine & Two Support Frames

The project was conducted in two phases. The first phase consisted of the construction of core components of the system such as the mixer, surge bins and bagger. The second phase required S. Howes to specify and provide conveying equipment as well as support frames and mezzanines.

S. Howes installed the system on-site. S. Howes' team of engineers designed a custom system that allowed the desired capacity of processing within the physical constraints of the building. The customer is now able to produce 15,000 lbs. of flour mix per hour.



*Photos and drawings are not intended to show or suggest use or non-use of any operator protection systems*

**S. HOWES**  
Established 1856

Phone: (716) 934-2611  
Toll Free: (888) 255-2611  
Fax: (716) 934-2081  
sales@showes.com

S. Howes, Inc.  
25 Howard St.  
Silver Creek, NY 14136  
www.showes.com

Member  PROCESS EQUIPMENT  
MANUFACTURERS' ASSOCIATION