

F O O D

Bakery Pre-Mixes



S O L U T I O N O V E R V I E W

Abrasive Products

Sugar and other abrasive products pose a particular problem for pneumatic conveying because of the degradation of contact surfaces. Special design features and options were employed to the application of Shick equipment to guard against the abrasiveness of the materials handled, including 304 stainless steel rotors with beveled edges and stainless steel elbows in the conveying lines.

Cooling and Dehumidifying

High velocity pressurized air can reach temperatures of 250 degrees Fahrenheit and sugar begins caramelizing at 180 degrees Fahrenheit. Heat was controlled by adding a moisture

separator and a heat exchanger, which dehumidifies and cools the air before it picks up the materials.

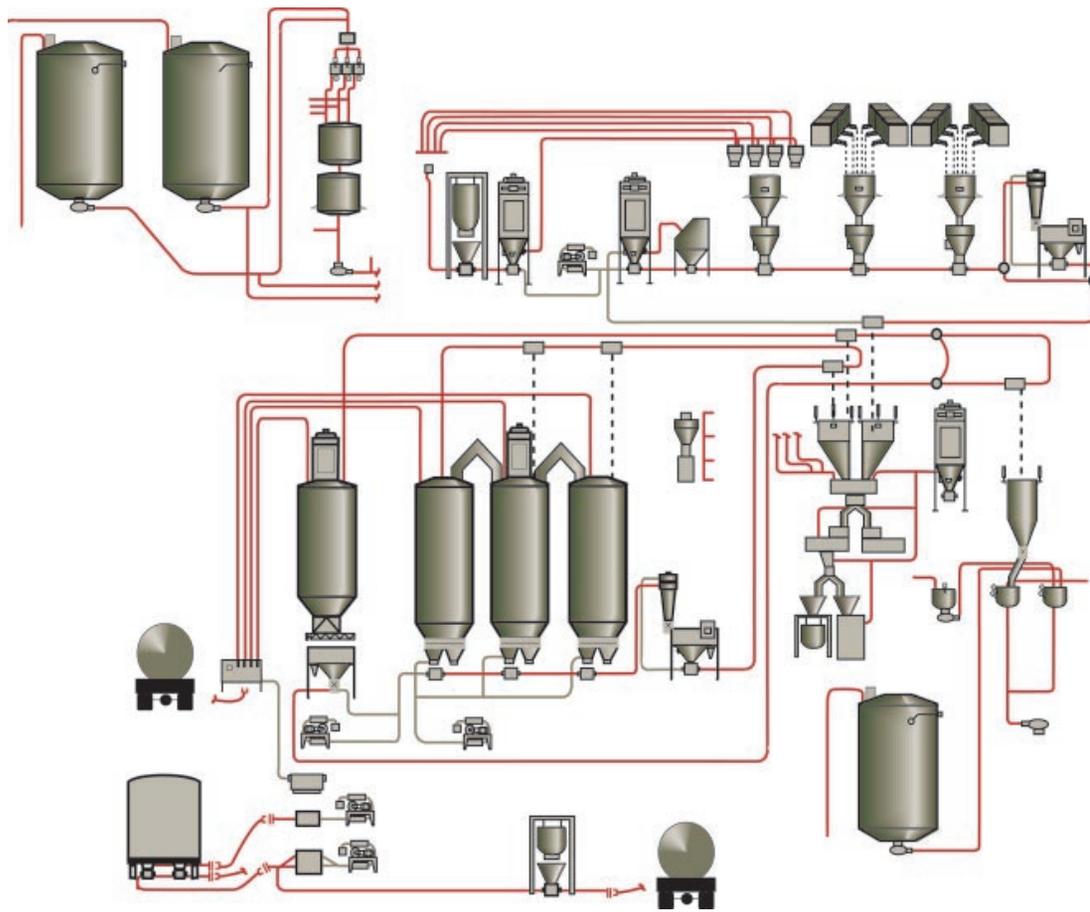
Minor Ingredient Solution

Shick custom engineered a minor ingredient handling system to administer the unique manufacturing formula needs of this facility. The design uses (12) 30 ft³ use bins that feed micro-ingredients into (2) central scale hoppers through hydraulic screw volumetric feeders. The (4) 150 ft³ minor ingredient bins feed through volumetric screw feeders into a separate central scale.

FOOD

Bakery Pre-Mixes

PROCESS DIAGRAM



Final Product: Bakery Pre-Mixes

Project Scope:

- Railcar Unloading
- Truck Unloading and Supersack
- Bulk Storage (4) 6,800 Ft³ Silos
- Bulk Pneumatic Transfer Sifting and Scaling
- Minor Ingredient (22 Materials) Storage, Scaling, Sifting and Pneumatic Transfer
- Liquid Bulk Storage, Transfer, Weighing and Metering
- Mixing, Blending and High Speed Finishing Prior to Supersacks or Packaging by Others
- Bulk Truck Loadout System

- Dehumidification and Air-Conditioning System
- Computer Control System Handling (13) Formulas and Providing Management Reports Including Material Usage, Production and Inventory Control, etc.
- Bulk Storage Inventory Control System

Materials Handled:

- Sugar
- Flour
- Salt
- Dried Milk
- 22 Minor Ingredients

Purchasing Rationale:

New Plant



WORLD HEADQUARTERS

Shick Tube-Veyor Corporation
4346 Clary Blvd.
Kansas City, MO 64130 USA
Tel: (816) 861-7224
Fax: (816) 921-1901

ASIA PACIFIC

Shick Tube-Veyor Asia Pacific Pte Ltd
Blk 5000 Ang Mo Kio Ave 5 #05-07
Techplace II
Singapore 569870
Tel: (65) 4824600
Fax: (65) 4818255

www.shicktube.com