

FOOD

Bakery Mixes



SOLUTION

Diversified Product Line

A wide variety of dry and wet mixes are produced and packaged. To accommodate this diversification, Shick engineered three different blending arrangements for the dry mix area. Two were identical, having bulk flour and sugar delivery, separate minor ingredient hand dump systems and sharing of a single liquid shortening additive system. A third blending line was installed for the special “fat-free” mixes.

Sugar Distribution

Granulated and powdered sugar is pneumatically conveyed to a wet processing area for production of jellies, fillings and icings.

OVERVIEW

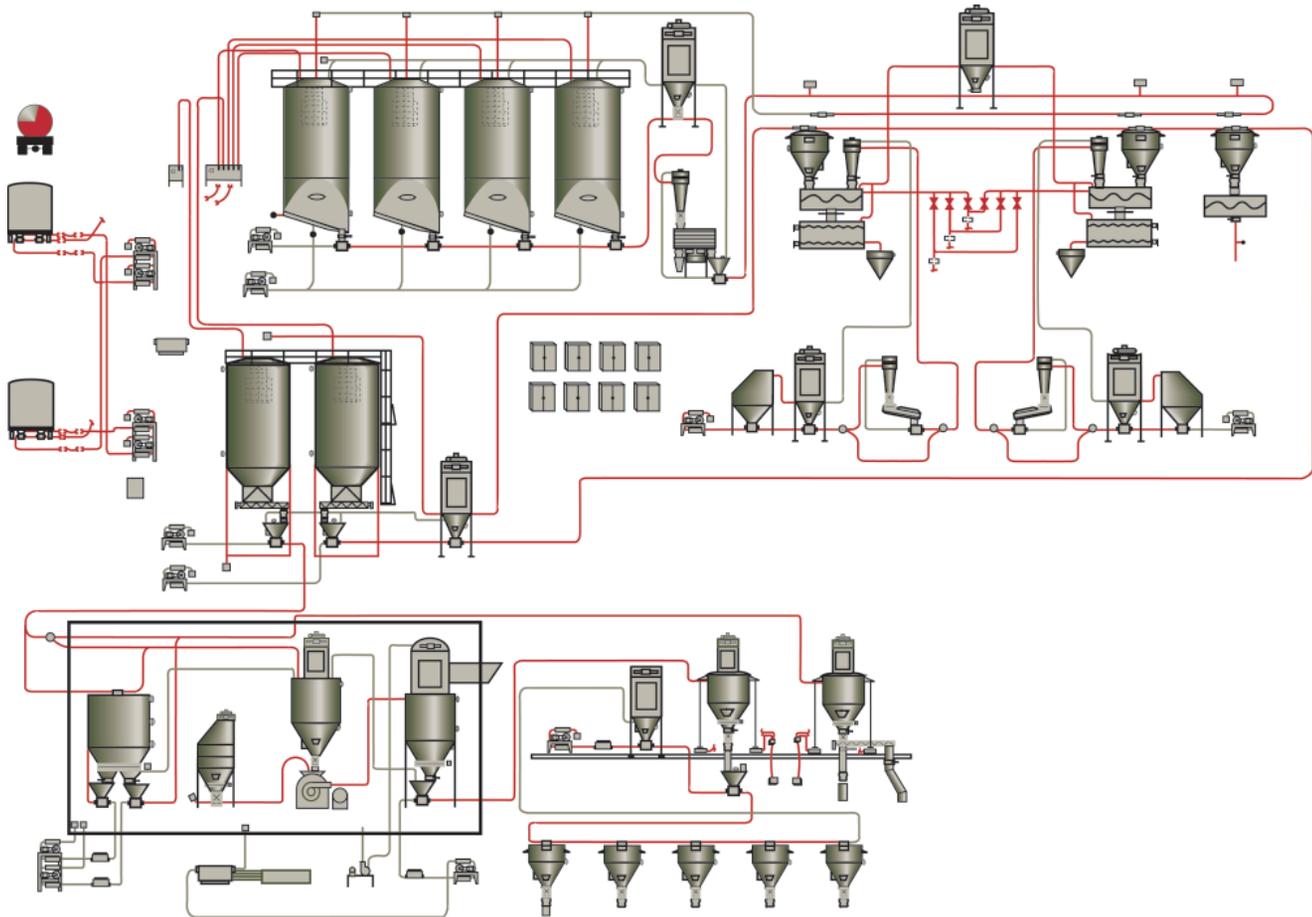
Powdered Sugar Production

The milling process creates another unique set of problems. Because of the presence of a combustible material (starch) in an enclosed environment, safeguards were provided to meet NEMA Class I, Division 1 requirements. Shick engineers worked closely with the client’s architects and engineers to incorporate features into the building’s electrical system and equipment design. Because fracturing of the sugar crystals produces heat, the milling system utilizes an anti-caking agent (starch), as well as vacuum sweeping of the mill with conditioned air for clean, efficient transfer and storage.

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PROCESS DIAGRAM



Final Product: Bakery Mixes

Project Scope:

- Railcar Unloading
- Truck Unloading
- Bulk Storage (2) 5,400 Ft³ Sugar Silos and (4) 5,600 Ft³ Flour Silos
- Bulk Pneumatic Transfer and Sifting System
- Sugar Milling and Vacuum Transfer System
- Hazardous Classification Adherence
- Dehumidification, Cooling and Air-Conditioning
- Powdered Sugar Pneumatic Transfer, Storage and Reclaim Systems

- Central and Local Dust Collection Systems
- Flour Scaling and Blending System to Packaging
- Supervisory Computer Control System with Production Scheduling and Formula Management

Materials Handled:

- Soft and Hard Wheat Flour
- Granulated Sugar
- Powdered Sugar
- Starch, Soda, Salt and Various Minors

Purchasing Rationale:

New Plant/Expansion



WORLD HEADQUARTERS

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