

FOOD

Flour Tortillas



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

Minor Ingredient Batching

Shick supplied (11) bins with an integrated support and access platform for hand loading minor ingredients. A central dust collection system applies a negative draw on each bin, thus eliminating excessive dust when loading. Each bin is equipped with a variable speed volumetric feeder which incorporates a modulating sidewall to enhance material flow and consistent bulk density. The hopper and auger of each feeder is specifically designed for the ingredient it handles, taking into account the unique characteristics of each material, thereby ensuring accuracies and repeatability.

Vacuum Conveying

To ensure that 100% of each scaled minor ingredient is transferred to the mixer receivers, a vacuum conveying system

was incorporated. Dry conditioned air, supplied from the minor ingredient room, is the source of air for the vacuum system which enhances ingredient discharge into the mixer.

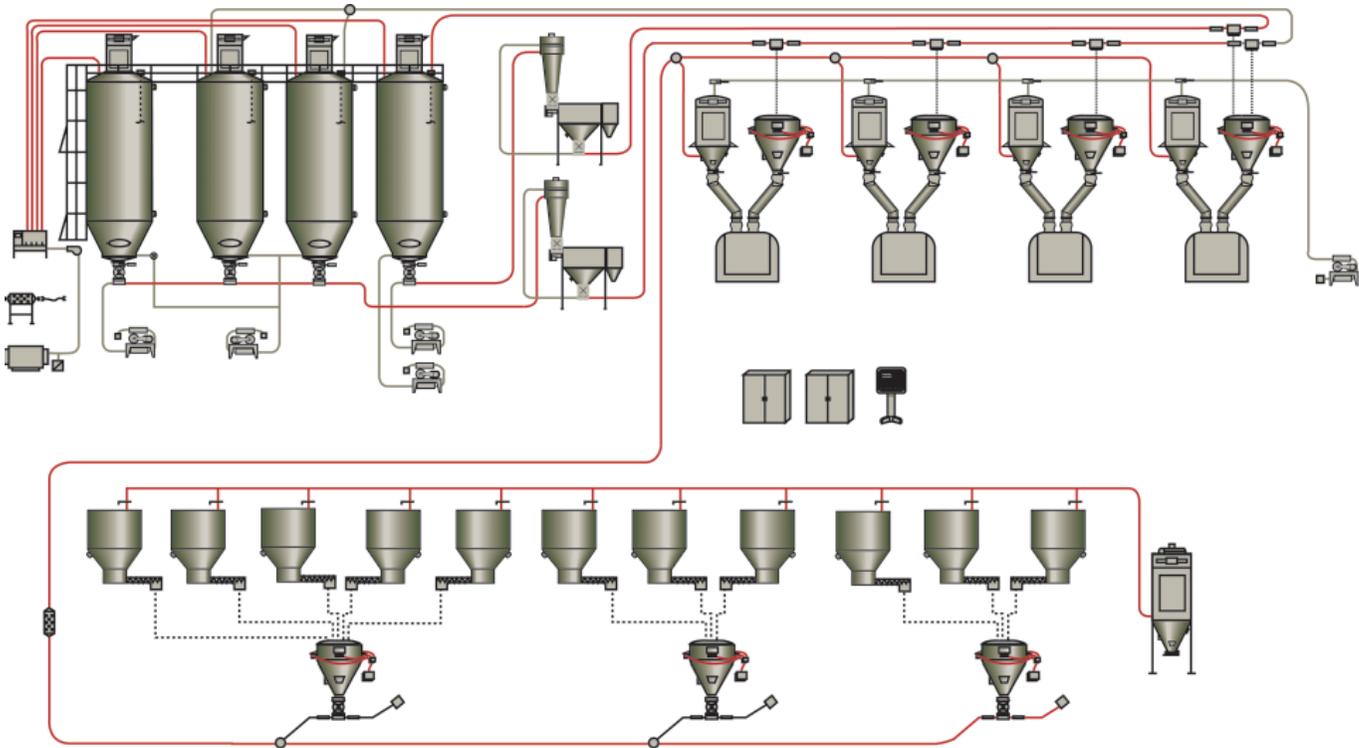
Integrated System Control

Shick partnered with the mixer supplier to integrate mixer functions such as temperature, start, stop, tilt, and other commands into our PLC system for status and monitoring on a CRT terminal. In addition to the bulk flour and minor ingredients, Shick engineered and incorporated the liquid shortening and water additions into the control system.

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PROCESS DIAGRAM



Final Product: Flour Tortillas

Project Scope:

- Truck Unloading
- Bulk Storage (4) 4,200 Ft³ Silos
- Bulk Pneumatic Transfer, Sifting and Scaling
- Minor Ingredient Storage Hoppers (11) with Central Dust Collection
- Scaling and Vacuum Transfer of Minors
- Conditioning of Silo Void Space

Materials Handled:

- (11) Minor Ingredients

Purchasing Rationale:

New plant and complete automation of ingredient handling



WORLD HEADQUARTERS

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