

FOOD

Breeding and Mixes



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

Inventory/Product Control

Automated inventory and production control were needed to satisfy the increased ordering and use of dry bulk materials. Shick supplied a control system that included PLC controllers with operator CRT terminals on a data highway system. A host personal computer downloads formula and production requirements from the supervisory system and receives batch information for report generation. All incoming bulk shipments are entered into the control system and all scale draws are automatically subtracted, providing an accurate perpetual inventory system.

Multiple Product Unloading

This high volume system allows the customer to unload multiple bulk ingredients through multiple delivery systems. P.D. trucks, in addition to the spotting of any combination of (6) airslide and/or P.D. railcar stations, provide maximum capacity with substantial flexibility.

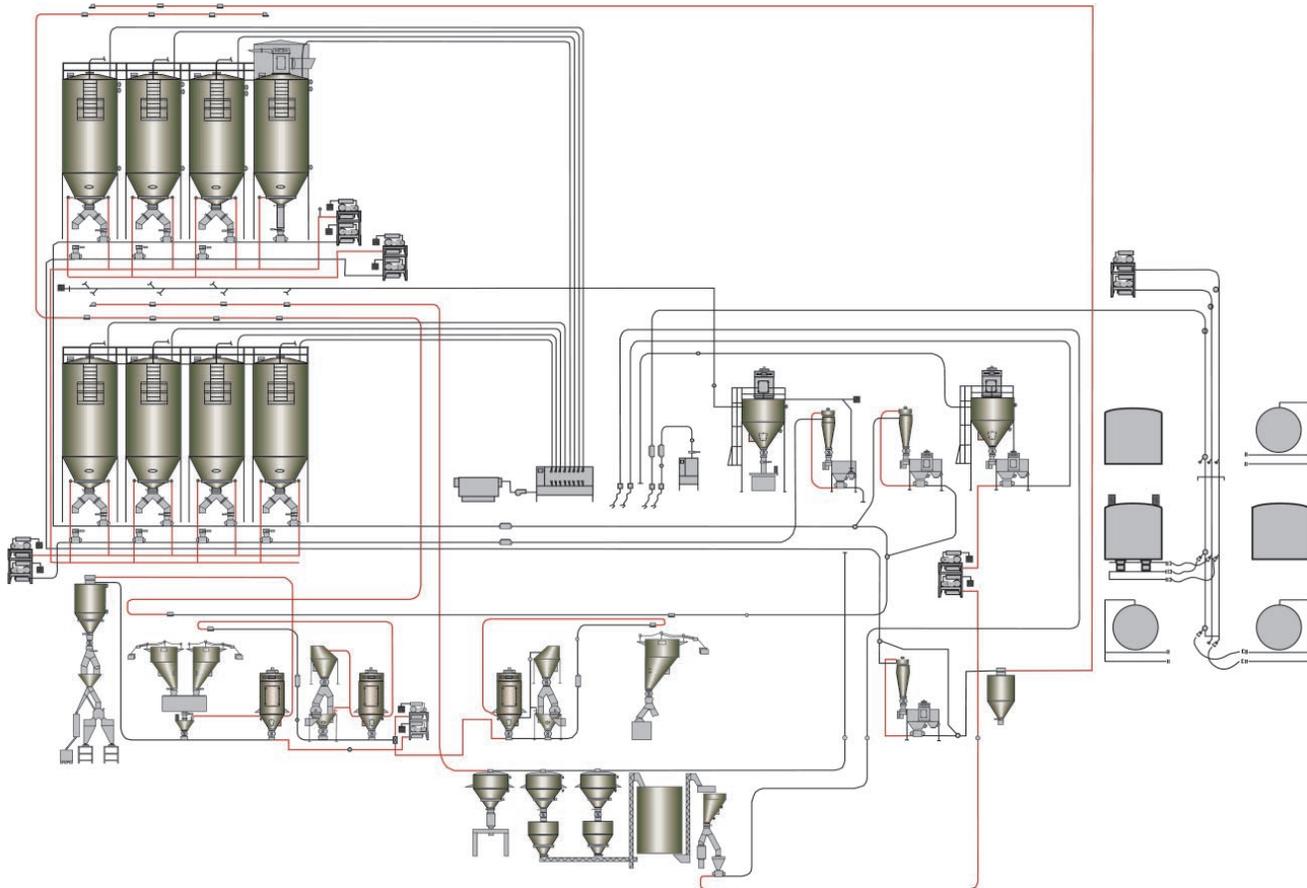
Dust Collection

A central dust collection system vents all bulk silos except starch. This approach eliminates individual silo deck-mounted units and allows maintenance at an in-plant grade level.

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PROCESS DIAGRAM



Final Product: Breeding & Mixes

Project Scope:

- P.D. Truck, P.D. Railcar and Airslide Railcar Unloading Stations
- Bulk Storage - (8) 5,400 Ft³ Silos
- Hazardous Classification Adherence
- Central and Local Dust Collection Systems
- Sifting of Materials to Bulk Storage in Addition to Sifting of All Ingredients in Process
- Batch Blending with Finished Mix Conveying to Packaging
- Minor Ingredient Hand Additive Stations

- Transfer of Bulk and Minor Ingredients to Continuous Blending Line
- Conditioning of Silo's Void Space with Dehumidified Air
- PLC Control with Supervisory Computer Interface and Operator CRT Terminals

Materials Handled:

- (7) Varieties of Wheat Flour
- Corn Flour
- Breeding
- Starch

Purchasing Rationale:

New plant for high volume distribution and improved national distribution efficiency



WORLD HEADQUARTERS

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