

KOCH FOODS POULTRY FEED MILL – PHASES I AND II



Owner

Koch Foods of Alabama,
LLC

Size/Capacity

110 tons per hour initial
165 tons per hour future

Completion Time

Phase I - Grain Storage:

11 months

Completed 11/2016

Phase 2 - Feed Mill:

15 months

Completed 03/2018

Younglove's Services

- Conceptual design
- Structural engineering
- General construction
- Construction management
- Slipform concrete construction
- Equipment installation
- Tilt-up construction
- Start-up and commissioning



YOUNGLOVE

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Builders of trust

Hope Hull, Alabama

This new facility was constructed in two phases at the site of Koch Foods' existing feed mill. Phase I consisted of a grain storage, receiving, and grinding facility to receive unit trains for whole grain at 40,000 bushels per hour and trucks for ingredients at 10,000 bushels per hour. The Phase I slipform structure was built to store whole corn in two 70-foot-diameter silos and one 35-foot-diameter silo. The 35-foot-diameter silo had a raised cone hopper built in it to feed 2 hammermills to grind corn at 55 tons per hour each. The grain storage, receiving, and grinding facility was built to receive corn and provide for the existing facility while the Phase II feed mill was under construction.

The Phase II feed mill facility consisted of two separate structures. The first consisted of the slipform feed mill structure, which included the ingredient and loadout bins along with the tilt-up warehouse structure. The second consisted of the slipform pellet tower and tank farm structure, along with the tilt-up boiler room building. This feed mill features a 12-ton batching and mixing system, including one 20-bin microsystem, a 4-tote bag macrosystem, and metered liquids to the mixer. Two CPM Model 7932 pellet mills provide a production of 11,000 tons per week. The loadout utilizes a dual-lane driveway with a 4-ton weigh lorry system at each lane and dust suppression hopper.

Additional features include a tank farm with nine tank locations for liquid storage, a freight lift up to the roof level in the feed mill, a 1,000-pound manlift at the grain storage, two 75 hp air compressors, and two 350 hp natural gas boilers.

This feed mill also included several unique features, such as structural tubes utilized in lieu of wide flange beams, cellular metal decking set on structural beams in lieu of wide rib, a concrete structural screw feeder floor in lieu of a mezzanine, concrete structural loadout gate floor in lieu of a mezzanine, and painted interior walls in exposed locations (two coats block filler and one coat enamel).



Leaders in the design and construction of bulk materials handling facilities