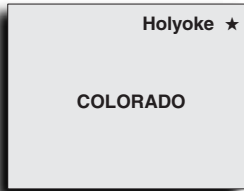


New Feed Options

SEABOARD FOODS ADDS FEED MILL TO SERVE SWINE FARMS IN NORTHEAST COLORADO



Seaboard Foods
Mission, KS • 800-262-7907

Founded: 1992
Feed production capacity: 4,500 tpw
Feed products: Mash and pelleted swine feeds
Number of employees at Holyoke: 11

Key personnel:

- Mike Benedict, Holyoke plant manager
- Chris Conard, manager of milling operations
- Wade Wisdom, director of feed milling

Supplier List

- Air compressor.....** Gardner Denver
- Batch control system.....** CPM Beta Raven
- Bin level monitors.....** Monitor Technologies LLC
- Boiler.....** Hurst Boiler
- Bucket elevators...** Hayes & Stolz Ind. Mfg. Co.
- Contractor** Todd & Sargent Inc.
- Conveyors** Tramco Inc.
- Distributor..** Hayes & Stolz Ind. Mfg. Co. Inc.
- Dust collection system.....** MAC Equipment
- Elevator buckets** Maxi-Lift Inc.
- Engineering** Todd & Sargent Inc.
- Gates and diverters** Tom-Cin Metals Inc.
- Hammermills ..** Mill Technology Inc.
- Manlift.....** Schumacher Elevator Co.
- Micro-ingredient system ...** Sudenga Industries, Inc.
- Mixer ...** Hayes & Stolz Ind. Mfg. Co.
- Motion sensors ..** 4B Components Ltd.
- Pellet cooler** Andritz Inc.
- Pellet mill.....** Buhler Inc.
- Screw conveyors.....** Conveyors Inc.
- Screw feeders.....** Conveyors Inc.
- Truck scale.....** Rice Lake Weighing Systems



Seaboard Foods' new 4,500-tpw feed mill in Holyoke, CO, which is being primarily used for swine feeds at Seaboard swine farms in the area. Photo courtesy of Todd & Sargent.

With 38 swine farms within short trucking distance from Holyoke, CO, Seaboard Foods was looking for a feed mill location that could serve the surrounding area better. The new mill in Holyoke (970-520-3724)



Manager of Milling Operations Chris Conard, left, and Colorado Feed Mill and Transportation Manager Michael Benedict. Photos by Alex Lord.

gives Seaboard the opportunity to have a greater variability in grind size to allow for the pelleting of mash.

“Our other two mills in the area are mash only,” says Seaboard Foods Manager of Milling Operations Chris Conard. “Neither of our other two mills had the capacity to expand for pelleting, so the new location in Holyoke made sense.”

The project broke ground on May 1, 2012 and feed production was started on June 5, 2013.

Todd & Sargent Inc., Ames, IA (515-232-0442), was main contractor on the project. Conard says Todd & Sargent was chosen for the project because it completes all of its engineering in-house and does not subcontract out a lot of work.



Hayes & Stolz bucket elevator head section and Tramco conveyor system carry received ingredients to a Hayes & Stolz distributor.

Mill Specifications

The mill at Holyoke is an all-concrete structure standing 129 feet tall, with a pelleting annex that stands 59 feet 6 inches high. The facility has the capacity for up to 150,000 bushels of whole grain storage.

Ingredients at the facility are received through a 500-bushel Rice Lake scale-type pit. Whole grains or other ingredients then are routed throughout the facility using a Beta Raven Mill Master control system.

Ingredients are moved from the pit at a rate of 10,000 bph by Conveyors Inc. screw conveyors, to a Tramco drag conveyor, and finally to a Hayes & Stolz bucket elevator. The leg is equipped with a 17-inch PVC belt and 16x8-inch Maxi-Lift CC Max buckets. The leg takes grain to a Hayes & Stolz distributor that then directs grain to the whole grain storage annex or square bin storage in the mill.

Grain is ground by two Mill Technology hammermills, one at 40 tph and one at 20 tph.

In the mill an 18-duct Hayes & Stolz distributor feeds 18 ingredient bins with 1,949 tons total capacity that feed one of two batch scale hoppers. A 20-bin Sudenga microingredient system adds other ingredients.

Ingredients then are dumped into a 5-ton Hayes & Stolz twin-shaft mixer, where liquids can be added,

with an average mix rate of 45 tph. The mixture is then fed to a mash leg or mixed feed leg.

Pelleting and Loadout

Pelleting is done on a 45-tph Buhler pelleting system. A Buhler conditioner and retentioner adds steam and retention to the mix, before a Buhler Optiflow feeder feeds conditioned mash evenly into the pellet mill. Fat can be added at the die. After pelleting, the feed runs



A 20-bin Sudenga microingredient system.

through an Andritz counterflow cooler.

Finished product can be distributed to 12 bins with a total capacity of 1,256 tons for loadout. Six of the loadout bins can hold mash that bypasses the pellet mill system.

A three-ton weigh lorry is used for loadout into Seaboard Foods trucks that take feed to one of the many swine farms within trucking distance. The mill services 12 sow farms, 14 finishing farms, 11 nurseries, and one AI stud farm. With the possibility of more swine barns in northwest Kansas, the new feed mill at Holyoke will be able to distribute feed to new locations.

The Holyoke facility also features a two-person Schumacher manlift, as well as a 6,000-pound freight elevator.

The mill has a total capacity of up to 4,500 tpw but currently operates at around 3,500-4,000 tpw.

Alex Lord, associate editor



Mill Technology hammermills grind at 40 and 20 tph, respectively.