

Bagging solutions designed for the demands of rapidly growing agri-business

Fast growing agri-business serving the livestock industry turned to Hamer-Fischbein to develop a packaging solution that delivers automation and flexibility

Animal feeds play a significant role in the global food industry and is one of the most critical components to ensuring safe, abundant and affordable animal proteins. As global feed production approaches one billion tons annually, producers are challenged to meet more stringent sustainability, feed safety and quality standards while increasing production volumes.

A large US-based supplier to the livestock industry provides custom animal feed nutritional blends, premixes and minerals. They package their own brand of products and also have a robust contract packaging business supporting a wide variety of customers. A large portion of their products are packaged in large format bags. So, when management was looking for a flexible bagging solution that could handle any type of open mouth bag, from plastic, paper and poly-woven, Hamer-Fischbein proved to be a strong partner. Their most critical requirement was that the equipment had to be able to be flexible enough to handle different bag sizes and bag heights. With very little space available for a complete automated bagging line, footprint also posed a challenge.



The Hamer-Fischbein Bagging Solution

Hamer-Fischbein developed a system with a duplex belt feed Hamer Model 600NW Net Weigh Scale that weighs and doses product to the Hamer Model 1200BH Bag Hanger.

Again, with flexibility being an important part of the customer spec, the system was designed with multiple bag closing technologies that are interchangeable within the overall system while maintaining the same footprint. A Fischbein Automatic sewing system was designed for their paper bag applications and was built on casters so it can easily be rolled into position when running paper bags. When running poly bags, the sew system is quickly changed out with a Fischbein Hot Air Sealer, which is also on casters.

A key part of their automation project was selecting the right robotic palletizer that could handle the high speeds and diverse types of bags they needed to prepare for shipping. The Hamer-Fischbein solution connected specifically designed conveyors that transport and feed sealed bags from the 1200 BH bag hanger directly to a dual cell, semi-automatic robotic palletizer with Easy Pic™ software. A simplified touch screen HMI allows their operator to easily reposition individual bags via the touch screen and gives the operator flexibility to quickly change pallet configurations or manage multiple bag sizes.

After installing the Hamer-Fischbein system, the feed plant saw a reduction in start-up and change-over times which led to a significant increase in their production speed and output. Their operators also noted how easy it was to operate the system and to program the robotic palletizer.

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