



Food

German metal detection technology for American flour mill

Milling Industry (USA)
Product: GF 4000

Founded in the mid-80s, this reference customer is among the top five milling companies in the US with mills across the country. They specialize in several kinds of wheat-flour serving the national market. Today, belonging to an Asian group, this company also offers services that include development of formulations and specific blend.

In one of the milling plants, with production capacity of more than 12,000 cwt. and storage capacities of just above 1 MM bu. various wheat varieties are processed:

- Hard red winter wheat
- Soft white wheat
- Dark northern spring wheat

The Problem: Food safety without dust formation and loss of good material

Pneumatic conveying is common within the milling industry to move large volumes of products. This firm was looking for a metal detection solution to provide enhancements to their food safety initiatives (GFSI) within the challenge of pneumatically conveying the finished product to bulk carriers. This was no easy task considering that the conveying pipes are operated with a pressure of 1.7 bars and a linear speed up to 4000 FPM.

Previous locations for installation of detection systems have been in front of, or at the exit of, these pneumatic lines. Previous systems were cumbersome, create dust with a lot of product waste, therefore installation at this part of the process was often deemed too difficult. This left a gap in the food safety coverage of the flour mill.



The Solution: Metal detector GF400 specially developed for the pressure conveying line with high conveying speed

After evaluation of several metal detectors from different manufacturers, our reference customer decided to go for the GF 4000 from Sesotec. This system rose to the top of the selection list because it detects and automatically rejects metal from within the pneumatic line.

The Outcome: Automatic separation of metals in the pneumatic line

When testing with test bodies, the device could convince to 100 percent, without generating any false rejects. By installing the GF4000, the company could close a gap in production security.

They are also impressed with the robust construction of the GF 4000, derived from German technology with engineering suitable for the demands of North American customers.

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Sesotec - an overview

The Sesotec group is one of the leading manufacturers of machines and systems for contaminant detection and material sorting. Product sales primarily focus on the food, plastics, and recycling industries.

www.sesotec.com



Metal detection systems



X-ray inspection systems



Sorting systems



Magnet systems