

Automatic Sack Opening Machine for a Flour Mill in the UK

OVERVIEW

Throughout the years Entecon has manufactured many Automatic Bag Slitters for different type of food manufacturers.

The sack opening machine is ideal to open sacks with powders, such as flour (wheat), coffee, tea and petfood for sacks / bags of 10kg up to 80kg.

Entecon's Automatic Sack emptying machine supports the highest levels of food safety.

PROJECT

Entecon has produced an Automatic Sack Opener for one of the largest flour millers in Europe with a large range of customers.

From UK's leading food manufacturers to independent (artisan) bakers.

The flour mill client experienced bottlenecks due to the manual opening of 25kg bags of different types of flour,

leading to inefficiencies in production workflows and increased labour costs.

With production demands rising,

they required a high-capacity repeatable automated solution.

OBJECTIVES

The client and Entecon developed the design criteria which includes:

- Improving the material handling process and contain dust / clean GMP operation
- Enhancing throughput and meeting the production capacity of 300 sacks per hour
- Reducing manual labour and associated risks
- Ensuring compatibility with client's existing production line

SOLUTION

Based on the client's criteria Entecon's Automatic Sack Opener (ASO) has the following design and features:

- Opening 10kg to 25kg paper bags with flour/wheat

- Handling 300 sacks per hour
- Dust Extraction Unit and dust free operation
- 1.5 meter infeed belt conveyor
- HMI Touchscreen
- Controls PLC

CUSTOMER'S BENEFITS

We are happy to see the impact of the machine for the UK flour mill:

- Increased Efficiency: Reduced bag opening time by 80%
- Labour Cost Saving: Reduced the need for manual intervention by 50%
- Improved Hygiene: Minimized spillage and dust dispersion, adhering to food manufacturing standards
- Operational Continuity: Streamlined material flow, enabling uninterrupted production