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Solids Handling And Process Engineering Co., Ltd.

Equipment Data Sheet

COBRA 110 MANUAL SACK OPENING UNIT WITH INTEGRAL DUST FILTER UNIT

The **COBRA 110** Manual Sack Opening System from SHAPE is a unique design in the field of sack opening & discharging. It is the ideal choice for today's environment- friendly user who does not require the high output of semi or fully automatic machines. With it's exclusively designed 'pantographic' front door arrangement it makes the unit ergonomically superior in terms of operation for users.

The **COBRA 110** has been designed to handle a wide range of varying sack sizes containing powder or granular materials, within an enclosed system to minimize atmospheric contamination by utilizing a self-contained dust control system. The unit has been tailored towards applications where quick hygienic clean down & change over from product to product is required with minimal downtime.

The unique design concept provides a machine that is of compact design and can incorporate in-line magnet, and waste bag disposal if required.

Consider the Advantages :

1. Versatiliy:

- Can handle a wide range of sack or bag sizes containing granules and power materials.

2. Safe and Clean :

- Sacks and bags can be opened in an enclosed chamber, and where dust extraction is utilized reducing atmospheric pollution.
- The clean design aspect means that the system can be easily sanitized & validated.

3. Durable :

- High quality of design & construction to allow a long operating life.

4. Easy to Operation:

- Manual operation provides trouble - free processing.

5. Compact & Cost Effective :

- Optimum efficiency - Minimum floor space.
- Low cost installation and maintenance.

COBRA 110 MANUAL SACK OPENING UNIT WITH INTEGRAL DUST FILTER UNIT

General Specification

Sack / Bag Size	: Up to 850 mm. long x 550 mm. Wide x 250 mm. deep.
Throughput Rate	: Up to 240 sacks per hour depending upon sack dimensions, material content and operator efficiency
Emptying Efficiency	: 99.0 - 99.5%, depending on free flowing characteristics of the material and operator efficiency
Dimensions	: 2,811 mm x 1,552 mm x 1,394 mm (H x W x D)
Weight	: 493 kg
Materials of Construction	: All mild steel construction with epoxy paint finish
	: All Stainless steel construction in 304 or 316 grade.
Standard Electrical Specification	: IP65 but can be upgraded to suit Clients requirements. : Dust Control Fan Motor – 1.50kW.
Compressed Air Consumption	: Reverse Pulse Jet Filter: 5 Litres / sec @ 5 Bar

General Method of Operation

The operator opens the front access door and pushes the bag from the loading table onto an internal bag support grill inside the cutting chamber. As the door is opened this will then send a signal to the control system (supplied by others) to automatically start the dust control system. The operator can now manually cut the bag within the confines of the unit allowing the contents to be discharged through the safety grill to the hopper below.

As an additional option the empty sack can be transferred to a waste chute that is located on the side of the discharge chamber. This chute can be connected to a collection vessel or alternatively to a SHAPE BOA Waste Bag Compactor. The BOA Waste Bag Compactor (see separate data sheet) will then compact the empty sacks in to a specially designed continuous plastic sleeve to provide a clean, compact & efficient method of handling waste bags.

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