

TETRA PAK® BAG TIPPING UNIT SA VS800

25 kg automatic bag opening station



APPLICATION

Tetra Pak® Bag Tipping unit SA VS800 is designed to efficiently discharge 25kg bags of powder. The sanitary design of the equipment makes it suitable for all food powder discharge applications including dairy and nutritional products.

HIGHLIGHTS

- Eradicates heavy lifting (bag discharging made easy)
- Increased capacity compared to manual operation
- Modularity
- Lower operational cost
- Hygienic design
- Reduced cleaning time

WORKING PRINCIPLE

Tetra Pak® Bag Tipping unit SA VS800 automatically cuts the bag and brings it to the discharging position. It effectively eradicates the heavy lifting normally involved in bag handling.

The automatic bag cutting system comprises the following steps:

- Acceleration belt for properly engaging the bag in the cutting section
- Tilting module for bringing the bag onto the discharging location
- Slitter to cut open the bag layers
- Discharging of the powder
- Sieving powder before entering the process
- For high hygiene applications, the outer paper bag will be removed intact and ergonomically prior to entering the station, so that only the plastic inner bag enters the hygiene area

The powder discharging design is suitable for any downstream process including vacuum or pressure pneumatic conveying. It is compliant with hygiene standards and dust explosion regulations.

One single operator can continuously handle up to 4 bags per minute.

The automatic bag slitter guarantees a clean bag opening while removing the need to manipulate hand-knives.

The dual start button assures that hands are kept away from the automated bag cutters, thus enhancing personnel safety.

Environment stays clean thanks to an efficient integrated dust extraction system.

Powder losses are minimized as the bag opening is optimised in a way that prevents retention.

In high hygiene applications, recycling of separated outer paper bag and inner plastic liner enables environmentally friendly recycling and waste management.

The whole system is modular, which allows many different configurations from a stand-alone unit to complete line solutions. Upgrades or additional modules can be added at a later stage. The bag tipping station can be upgraded with bag de-palletizing and paper and plastic waste evacuation, so that the entire system can be fully automated to increase throughput and reduce labour costs.

BASIC UNIT

Tetra Pak® Bag Tipping unit SA VS800 is compact and provides a wide range of flexible solutions with options for every customer/market.

The machine can be configured to accommodate a wide range of bag construction materials available on the market including polyethylene bags, kraft bags and polypropylene woven bags.

Before delivery, all units are pre-assembled, frame-mounted and factory-tested. This assures easy installation.

- Accessible from floor level
- Complies with food safety and machine safety regulations
- Complies with dust explosion regulations

MAIN COMPONENTS

- Bag tipping station
- Filter
- Bag slitter and tilter
- Acceleration conveyor
- Safety fences
- Pneumatic Control Panel with Lockout Tagout (LOTO)

OPTIONS

- Various outlets arrangements available
- Fan silencer
- On demand: airflow and level sensors
- Bag slitter and tilter equipped with retractable blades and bag holder
- Bag tilter and holder (without slitter)
- 50 kg bags handling

Upstream and downstream modules can be supplied on demand. Every module is upgraded and retrofit at a later stage.

CAPACITY

Up to 6 000 kg/h

CONSUMPTION DATA

ELECTRICAL POWER

2,5 kW depending on selection 400 V, 50 Hz

COMPRESSED AIR

Cabinet 58 Nm³/h at 600 kPa (6 bar)

LAYOUT

