

# PalBox Filling Station



**Rates:** 4 000 L/hr.  
**Capacity:** 50 kg  
**Objectives:** Target weight product conditioning to cardboards

## ENSURE PACKAGING OF THE FRAGILE PRODUCTS TO CARDBOARDS

Semi-automatic or automatic weight cardboard filling station ensures conditioning of the fragile products. The filling head adjusts to the cardboard height and guarantees the highest level of performance.

## OPERATING SEQUENCE

1. The cardboard is manually positioned on the roller conveyor
2. The table, where the cardboard is positioned, automatically lifts to the filling sleeve
3. The product is poured to the cardboard in a controlled manner due to the load cell system
4. The table descends and the cardboard is moved to the abutment point
5. The operator takes the cardboard from the filling station with the help of a suction cup manipulator



## MODULE DETAILS CONSTITUTING CARDBOARD PACKAGING LINES

### MAGNETIC SEPARATOR

The detectors-ejectors are very effective and help to remove ferrous particles from the product flow, even those slightly magnetized and of a very small size. Metal detectors are designed for extremely accurate metal detection, they remove all the ferrous particles, magnetized or non-magnetized (iron, steel, stainless steel, aluminum) that can be mixed with powder products in gravity chute. This is the ideal equipment that guarantees both, protection of your installation and production; it particularly suitable for chemical and food industries.



### LIFTING VIBRATING TRAY

The lifting vibrating trays are designed for the product compaction in such containers as cardboards, drums, buckets etc., that are moved by means of roller conveyors. This equipment is used for product densification in the containers in order to increase the apparent product density or only for the slope that is formed after filling process. The height of the lifting tray is adjustable by means of the proximity sensors. After the table is down, the charge and the roller conveyor are weighed together. This is an ideal solution for the filling installations.



Storage

Magnetic bars

Magnetic separator and ejector

Dosing module

Servo control system

Containment

Outfeed conveyor

Vibrating and lifting weight tray

Infeed conveyor for empty cardboards

Dosing modules are adjustable depending on your products: screw, band, valve, vibrating feeder etc.

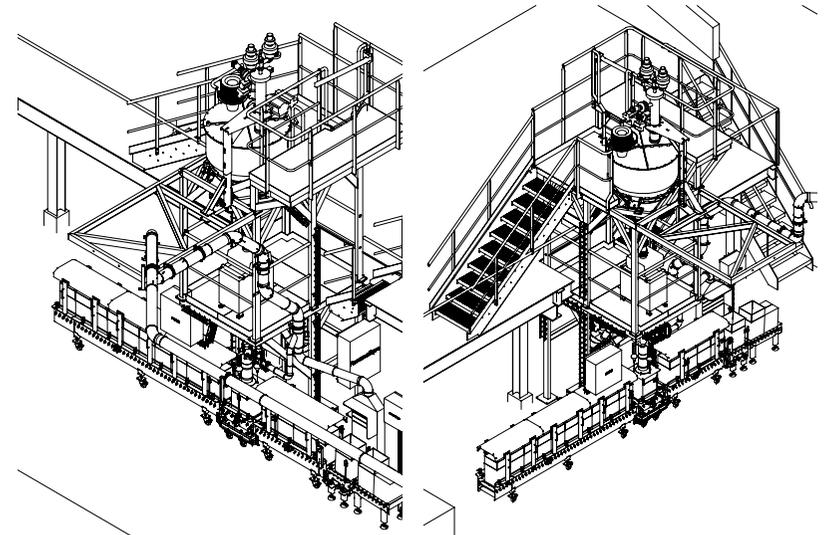
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## ▶ CONVEYING LINE STOPPERS

The stopper represents a fixed final mechanical element of the conveying line, the aim of which is to allow stopping or accumulating of the arriving transferred product. This stopper protects the production line.

For the proper functioning of the conveying line, retractable intermediate stoppers (controlled by pneumatic cylinders) can be positioned.



## ▶ COMMERCIAL WEIGHING

The commercial weighing stands for a final stage of the raw material packaging to cardboards. At the end of the conveying line the cardboard is positioned on the scale, also called a non-automatic weighing instrument (NAWI). The operator performs such operations as: the control of the sack weight, withdrawal of the weighed loads.

The cardboards are ready for palletizing and storage.

## 20 KG-CARDBOARD FILLING INSTALLATION IN A CONFINED ENVIRONMENT



▶ **Control panel** ensures an instant production management



▶ **Load cells** ensure the control of the integrated product quantity



▶ **Scanning** guarantees the tacking of the packaged cardboards



▶ **Abutment point** allows stopping of the moving cardboards and their removing by an operator

## Advantages

