

TECHNICAL REFERENCE SHEET**SAS-AUT - Sacks Absorption System feeding the CFC****OPERATION AND MAIN FEATURES**

SAS-AUT provides a lifting assembly for mail sacks opening and an air depression system for the absorption of the originated dust. The mail discharged from sacks is conveyed to a segregation belt conveyor and then fed into a CFC (Culler, Facer, Canceller) machine.

SAS-AUT has been designed to keep as uniform as possible the height of mail layer towards CFC. To achieve that, SAS-AUT has two hopper buckets with variable speed extraction belts and a PLC based mail flow control system.

The main functions of SAS-AUT are:

- Sacks Lifting and Opening,
 - Dust Absorption,
 - Manual Segregation of non-machinable items,
 - CFC feeding with a mail layer of controlled height.
- SAS has been designed with the most advanced technologies of belt transport and air depression and filtering, and it is composed by the following parts:
- Sacks Lifting device
 - Primary and Secondary Hopper Buckets
 - Dust Absorption subsystem
 - Variable speed extraction belts
 - Segregation belt conveyor
 - Feeding belt conveyor to CFC
 - PLC based mail flow Control System

SACKS LIFTING DEVICE

It may handle loads up to 50 Kg through a sliding hoist on an overhead rail bolted to the machine frame. Sack is clamped by the operator at the side of the bucket, then lifted (up to 2 mt.), positioned and opened just over the primary hopper bucket, to leave mail falling down. The clamping device is acting with a strength proportional to the weight of sacks and a lever handle allows the operator to easily open it.



HOPPER BUCKETS

Their inside walls are of stainless steel, suitably perforated to allow dust sucking by the air depression and filtering system. The external border of the primary bucket has height and shape suitable for manual loading of lighter sacks.

Primary bucket capacity is of about 3 sacks.

DUST ABSORPTION SYSTEM

The air depression and filtering circuit is powered by two exhaust fans which suck dusty air through the perforated walls of the hopper

buckets and release clean air after an accurate two-steps filtering.

Filtered air is released from the upper side (2,5 mt off ground) of the SAS-AUT, to avoid any inconvenience to the operators.

A set of primary filters are placed just behind the hopper bucket to trap most of the dust, whereas a set of secondary filters is provided for a second step fine filtering to prevent any dispersion of dust in the environment. Filters have been designed to be inspected and cleaned or replaced in a very easy way.

EXTRACTION BELTS

Extraction belt conveyors are inclined and made of high grip material to easy extract mail items out of the bucket, without jams, and move them to segregation belt conveyor.

MAIL FLOW CONTROL

SAS-AUT has two hopper buckets and a PLC based mail flow control system to keep as uniform as possible the height of mail layer towards the CFC machine. This is done by controlling the quantity of mail inside the secondary bucket and as soon as it becomes too much, the primary extraction belt is slowed down as needed.

SEGREGATION BELT

Segregation belt conveyor is horizontal, about 700mm wide, with surface at about 900mm from ground and made of low grip material to make easier the manual segregation of non-machinable (by CFC) items. Culled out items are put aside in lateral areas separated from the belt by a small rib (2 cm).

SAS-AUT Segregation task:

- Up to 2 Operators are foreseen (one at each machine side) for the segregation of non-machinable items and to check for the correct operation.
- Segregation Belt STOP and RESTART commands are given by the operators, accordingly to their operational needs.



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