

SLICING AND PACKAGING LINE IN FLOW-PACK FOR BREAD LOAVES



- DESIGNED FOR HIGH SPEED PRODUCTS SLICING AND PACKAGING IN THE INDUSTRY
- HEAVY DUTY DESIGNED AND HYGIENIC FRAME
- PACKAGING CAPACITY UP TO 50 PACKS PER MINUTE

PURPOSE OF THE SYSTEM

The line is suitable for the automatic slicing and packaging in a wrapping machine combined in exit with a clipband closing machine. The transfer between each unit is provided by appropriate feeding unit and at the exit of the slicer the loaves are loaded into the wrapping machine thanks to a special high speed feeding unit which transfers gently the products.

LINE WORKING PROCEDURE

- The products will be provided in one row with long side leading
- Free rollers accumulation at the entry if needed
- Slicing with dry continuous band blades.
- At the exit the loaves are automatically loaded on the flow-pack machine, through a special feeder studied to load one product by one gently and keeping the slices all together without any misalignment.
- Flow-pack machine predisposed for the wrapping of the slices in standing position.
- Pack is sealed in all the sides with a rotating movement of the jaws for the sealing on the front and back and sealing wheels for the bottom
- *optional box motion sealing group or long dwell*
- Long packaging and air aspiration from it to allow the closing on top.
- At the exit the pack is closed with clipband or twist band

CONSTRUCTION FEATURES

- Continuous band slicer composed by a head of cut with continuous blades placed on two rollers rectified and balanced for a perfect adherence on the surface, where one roller is free and the other is motorized.
- Slicing with dry blades.
- Pneumatic blade tensioning system
- Blade break sensor with automatic machine stop.
- Conveyor belts advancing speed adjustable by inverter through touch screen.
- Automatic loading unit composed by a serie of conveyor belts for a gentle and fast transport of the loaves keeping the slices always aligned and all together
- Wrapping machine with rotating jaws movement of the cutting and sealing group
- Touch screen panel for parameter controls
- Electro-Mechanical clipping unit with continuous movement
- Combination in line of all the equipment and communication between the units through electrical and electronic contacts
- Panels, doors and electrical cabinet made in stainless steel.
- Safety protection made of polycarbonate.
- Electric panel with centralized controls, electric emergency devices built to standards.
- Frequency converter Siemens.
- Electric execution according to CE/UL-CSA specification.
- Voltage modulation, 3-phase.
- Switch cabinet with air ventilation.

LINE HIGHLIGHTS

Blade guides and pneumatic blades tensioning

- Blades guides made of hard Stainless steel material with Widia plate on the parts in contact with the blade to ensure long life and perfect alignment of the band blades.
- Blade guides installed to guarantee the perfect slice thickness on the loaf.
- Pneumatic blade tensioning to get more flexibility on the blades with less stress during the slicing.



Feeding unit

- The feeder is studied for a gentle transfer of the products keeping slices all together and aligned
- Feeder composed by a serie of lower transport conveyor belts for the phasing and upper rotating pushers for the insertion into the flow-pack



Wrapper applications for slices in standing position

- To allow the packaging of the slices in standing position the flow-pack is equipped with pushers and against pushers, plastic sectors on the entry infeed and lateral hands on the cutting and sealing group to allow the transport and packaging of crustless bread.



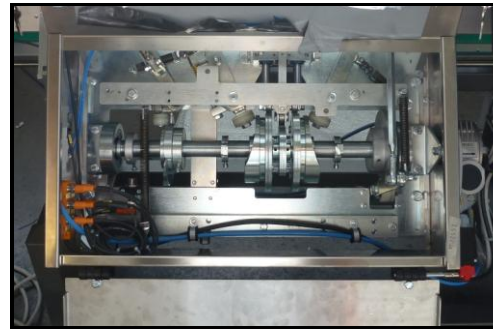
Air aspiration from the pack

- The wrapping machine is predisposed with a system for the air suction to get as much as possible a tight pack on the product, also to allow the next closing with the clipband or twistband.



Mechanical clipping unit

- The clipping machine works with an electro mechanical system composed by cams which combine the movement of all closing head components
- The closing head works continuously with a position that follows the pack to close it to guarantee high closing speed (not intermittent)



TECHNICAL SPECIFICATIONS

Dimensions: Customer specific (*indicative on the following overall drawing*)

Product specific: Customer specific

Capacity: About 50 packs per minute

Controller: Siemens, different on request

Operating panel: Switches and buttons

Frequency controller: Siemens, different on request

Pneumatic system: Festo

Power supply: 380/460 Volts - 50/60 Hz - 3 Phases

Power input: Approx. 21 Kw

Compressed air: Min. 6 bar

Protection class: IP 54

Adjustment: manual/automatic

OVERALL DIMENSIONS

