

DECRUSTING, SLICING AND PACKAGING LINE IN FLOW-PACK FOR CRUSTLESS BREAD



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

PURPOSE OF THE SYSTEM

The line is suitable for the automatic removal of the bread loaf crusts in all the four long sides, 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 can be divided into smaller portions for the packaging of half loaf or a third of loaf at a time.

LINE WORKING PROCEDURE

- The products will be provided in one row with short side leading
- Automatic decrusting machine for separating the bread loaf crusts from the rectangular white bread on all sides.
- Decrusting performed in two steps on a first station composed by two horizontal blades and a second one composed by two vertical blades. Loaves never turn upside down, but they proceed always straight to have a precise cut.
- Automatic removal of the crusts from the loaves through conveying system
- At the exit the loaves are loaded at 90° into the slicer for the loaves slicing
- Automatic removal of lateral remaining crusts
- Slicing with dry continuous band blades.
- At the exit the loaves are automatically loaded on the flow-pack machine, divided in two halves or three or without any division.
- Flow-pack machine predisposed for the wrapping of the slices in standing position
- Pack is sealed in all the sides with Box motion movement of the jaws for the sealing on the front and back
- Short or long pack to be able to close it with clipband or twistband .
- At the exit the pack is closed with clipband or twist band

CONSTRUCTION FEATURES

- Crust removal through continuous band blades mounted on balanced pulleys for excellent adherence and perfect blade alignment
- 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.
- Separate drive for each conveyor belt.
- Conveyors belts advancing speed adjustable by inverter through touch screen.
- Automatic loading unit composed by a series of conveyor belts for a gentle transport of the crustless loaf
- Wrapping machine with box motion movement of the cutting and sealing group
- Touch screen panel for parameter controls
- 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 specification.
- Voltage modulation, 3-phase.
- Switch cabinet with air ventilation.

LINE HIGHLIGHTS

Decrusting

- Removing of the crust in two different cutting stations, horizontal and vertical for the continuous straight flow of the loaf.



Blade guides

- Blades guides made of hard Stainless steel material with Widia plate on the part 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.



Feeding unit

- The feeder is customized according to the number of portions which loaf has to be divided into.
- Feeder composed by transport conveyors belts suitable to transport the product without the crusts to the next machine.



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.



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. 62 Kw

Compressed air: Min. 6 bar

Protection class: IP 54

Adjustment: manual/automatic

OVERALL DIMENSIONS

