

# compact system

## disposal technology

### MISCHI G MASCHINEN

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#### VERTICAL PACKAGING MACHINE

Vertical automatic packaging machine for thermosealed film drawn from a single reel, supplied with the following items and features;

- Hydraulic reel lifting and lowering device to assist changeovers. Unit comprises pivoting, hydraulically operated lifting arms with motorized reel pick-up and centering via push buttons.
- Motorized film feed. The film is driven by a gear motor, motion is transmitted by a universal joint device that enables the drive belts to align centrally on the forming tube. The belts are secured on linear guides and ball bearings that ensure maximum moving precision. The pressure applied by the belt on the tube is achieved by pneumatic cylinders, regulated by a pressure reducing valve.
- Hydraulic vertical sealing jaw. Hinged to allow easy access to the forming tube with changeovers.
- Hydraulic horizontal sealing jaws. The unit is assembled on linear guides and ball bearings that ensure maximum moving precision. The jaws have heating elements, cooled by chilled water.
- Pneumatically operated discharge saddle with selectable vibrator assembly to assist product settlement in the bag. The saddle has motorized height adjustment controlled by two pushbuttons
- Photocell device to accurately determine the bag length. This system employs a photocell located adjacent to the forming shoulder, to detect print registration on the film. These markings will be set at pre-determined intervals along the film to suit the correct finished bag length.



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#### BELT FED NET WEIGHER

The weigher is produced according the modern machine construction standards with contact parts made in stainless steel, with a loading hopper with level sensor and weigher hopper made in stainless steel for a capacity until 25 liter. The belt feeder whit two feeding speed and drive by pneumatic cylinder. The electronic controller unit is a processor controlled system enabling excellent performance in the most difficult applications.

#### TRANSPORT UNIT FOR THE ROBOT PALLETISER

- ◆ The vertical column is composed of robust square interconnected metal sections on which are fixed the slip guides of the trolley that holds the arm of the robot
- ◆ The arm, which holds the pick-up head, is fitted to the trolley that moves vertically.
- ◆ The movement of the arm in relation to the outer-arm is by means of 0.8kw gearmotor.
- ◆ The movement of the pick-up head is by a 2.5 Kw gearmotor without play.
- ◆ The pick-up head is controlled electronically to ensure that it aligned with the pallet, at whatever point it is located when the arm is rotating.
- ◆ The pick-up head is fitted with an extra course system that allows it to the deposit the bags even if the point where it needs to put it down is not perfectly level.
- ◆ All motors are alternate current with electronic speed variator (inverter).



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#### ROBOT PALLETISER

The bags which arrive from the bagging section of the line are transported by a roller or belt conveyor to the palletising section, as the bags move along they are orientated and/or accumulated to allow them be picked-up, when they arrive at the pick-up conveyor, the bags are only picked-up after a product presence signal is given. The machine will work correctly, only when the product is present in the correct manner, the pallet is in position and the pallet programme, along with the number of layers to be palletised has been input on the operator panel.

At this stage the machine will run in automatic without any need for the operator to be present, picking up the bags by means of a mechanical pick-up head and placing them on pallets. The programming of the various pallet patterns can be carried out by the operator by means of an auto-learning feature of the machine and between 10 and 20 pallet patterns can be memorised depending on the number of cartons or bags per layer and the complexity of the pallet pattern.



#### PICK-UP HEAD WITH MECHANICAL CLAMPS FOR REFILLED BAGS

#### PRODUCT INFEEED ROLLER CONVEYOR

The product infeed roller conveyors function is to introduce the product so that it can be counted and picked-up by the robot.

#### EMPTY PALLETS HOLDING TEMPLATE ON THE FLOOR

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#### MOTORISED ROLLER CONVEYOR FOR PALLETS

The frame which holds the rollers is composed of two zinc-coated steel plates connected by transversals fitted with support legs with adjustable bases for level placement on the round. The carrying surface is formed of zinc-coated steel rollers diameter 76mm, length 1280mm, whilst the pitch of the rollers is determined by the product that is being transported.



#### ROTARY TABLE STRETCHWRAPPER

- Maximum palletiser load dimensions mm. 1200 x 1200
- Maximum pallet load height mm. 2400 (pallet included)
- Maximum pallet load weight kg. 2000
- Rotary table speed can be adjusted via the control panel (Inverter controlled)
- Film reel ascent/descent speed with 20% average coverage synchronised with rotary table.

