

MACHINE TECHNICAL DATASHEET

ARVOR sealing machine

Description: automatic sealing machine for the production of bottom seal bags, with servo motor controlling the front draw rollers fitted with helical gears.

Materials to be processed: LDPE, HDPE and mixtures with LLDPE

Max bag length > 2000 mm (possible to produce longer bags as well)

Min bag length > 120 mm

Max sealing thickness > 4 x 200 microns

Min sealing thickness > 2 x 12 microns

Max width > 1050 mm

Max mechanical speed: 135 cycles/min

Min speed: 15 cycles/min

Production speed: 90 m/min

No.1 complete set for cutting and sealing bag by bag:

- Upper and lower sealing bar
- Rotating cutter bar
- Group stacking

Control panel with touch-screen, placed on the carter of the rewinder unit, for setting production parameters such as:

- Bag length
- Repeat seal (to seal twice on the same bag)
- Dwell weld automatic and adjustable; variation of speed during cycle, to better control the sealing time
- Staggering seals to avoid self-welding of seals
- 2,2 kW AC motor frequency controlled, for progressive startup. The speed of machine is displayed on screen.
- Pre-heat facility will delay the film on machine startup.
- Web advance / retard buttons for easy webbing and printed material setup.
- Display of errors and defaults
- Full cam control within the PLC via touch-screen
- Machine setup via touch screen with a special password number
- Etc.

Dancing bar accumulator controls the speed of the rollers. It is fitted with pneumatic piston which allows the adjustment of the weight of dancing bar.

Pneumatic system with reservoir to provide sufficient air supply to the finger bars for air cushion bag delivery.

Instant emergency stopping of the machine by safety brake. Machine automatically stops with the sealing bars open.

Rewinder POR1100, with two rotating stations:

- Stop function at certain meters or bag number
- Electronic control of the winding
- Pneumatically expandable airshafts for cardboard cores of 50 and 76 mm (2 pcs each size) with quick release chucks system

Brief description of functioning:

- Machine is normally configured for perforated pre-cut bags on rolls, for 50 mm or 76 mm cores.
- In this setup a 1800 mm long conveyor can be used for enabling the movement of the pre-cut bags, or a short, fixed table (as in video)
- By replacing the pre-cut kit with the „bag-by-bag“ kit, the bags will be sealed and cut by a flying blade.
- In the case of pre-cut bags, one of the two rewinding stations will be selected from the control panel buttons; after the reel will be finished, the operator simply switches the next bag to the second rewinding station – after selecting this station with one selector. This second station is starting to wind the bags, while the initially used station stops rotating, allowing the operator to open the quick release chucks, to remove the airshaft and consequently the reel, to add the new cores and to position the empty shaft on its position, secured by the quick release chuck. All this time the sealing machine continued to function automatically, adding pre-cut bags to the active rewinding station. When this reel is finished, the operator repeats the operation above, moving the production process to the station no. 1 again, ensuring a continuous production process.
- At the beginning of each job, the operator has to set the main production parameters: bag length, number of bags per reel, sealing amperage; all these parameters can be later adjusted, after the quality control are performed on the first bags.