

AUTOMATIC PACKAGING AND PALLETISING SYSTEM FOR BOTTLES

**ECA2000 + RPZ3000G270
+STDP-NC1000 + TCAD4000A1000**

OPERATION

This **AND & OR ECA2000** system carries out the arrangement and automatic insertion of bottles onto carton trays and Robot RPZ3000G270 palletises the trays.

It is usually installed at the outlet of the blow moulding machine after the leakage test.

This machine **RPZ3000G270** is equipped with a support in order to supply empty trays into the system. In addition, there are some further modules: **STDP-NC1000** (Dosage stack for empty pallets), **TCAD3000A1000** (Chain conveyor for displacement of empty and full trays). All these items make this system completely autonomous.

Production up to 5.000 u/h (Bottles 1L)

CHARACTERISTICS

This system is composed by several items clearly different:

- Bottle conveyor.
- Arranging and packaging desk ECA2000 with the following characteristics:
 - Painted metallic structure with cover, sliding doors and adjustable legs.
 - Motorised inlet bottle pusher with electronic speed variator.
 - Main motorised carriage with electronic speed variator.
 - Metallic base for preparing format of bottle with lateral adjustable guides.
 - Motorised former guide for holding first row of bottles on format preparing desk.
 - Warning light indicating tray.
- Palletising robot for full trays RPZ3000G270 with the following characteristics:
 - Carriage with vertical displacement and motorised rotation (encoder, electronic variator). Stroke 2.00mm. Rotation angle 270°.
 - Mobile jibs (c=50) with standardized profiles with grippers and deflecting units for holding tray or carton sheet.
 - Support unit for trays of sheets and motorised support unit for upward trays.
- Stack (accumulation) and pallet supply conveyor.
- Evacuation conveyor for formed pallets.

Unit controlled by an OMRON CPM2 robot and touch display for programming and warning data displaying.



SPECIFICATIONS

- **Electric supply:** 220 Vac. 50/60 Hz.
- **Installed power:** from 2 to 3 Kw.
- **Pneumatic supply:** from 6 to 8 bar.
- **Standard system for Euro-trays** 800x1200 or 1000x1200. (Other sizes on demand).
- **Dimensions:** according to lay-out.

OTHER EQUIPMENTS

- **Bottle manipulators and robots.**
- **Leakage testers.**
- **Weight-in-a-box testers.**
- **Automatic bagging with thermosealing.**
- **Handle applicator equipments on the neck of bottles.**



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