

PLANNING & BUILDING COUNCIL
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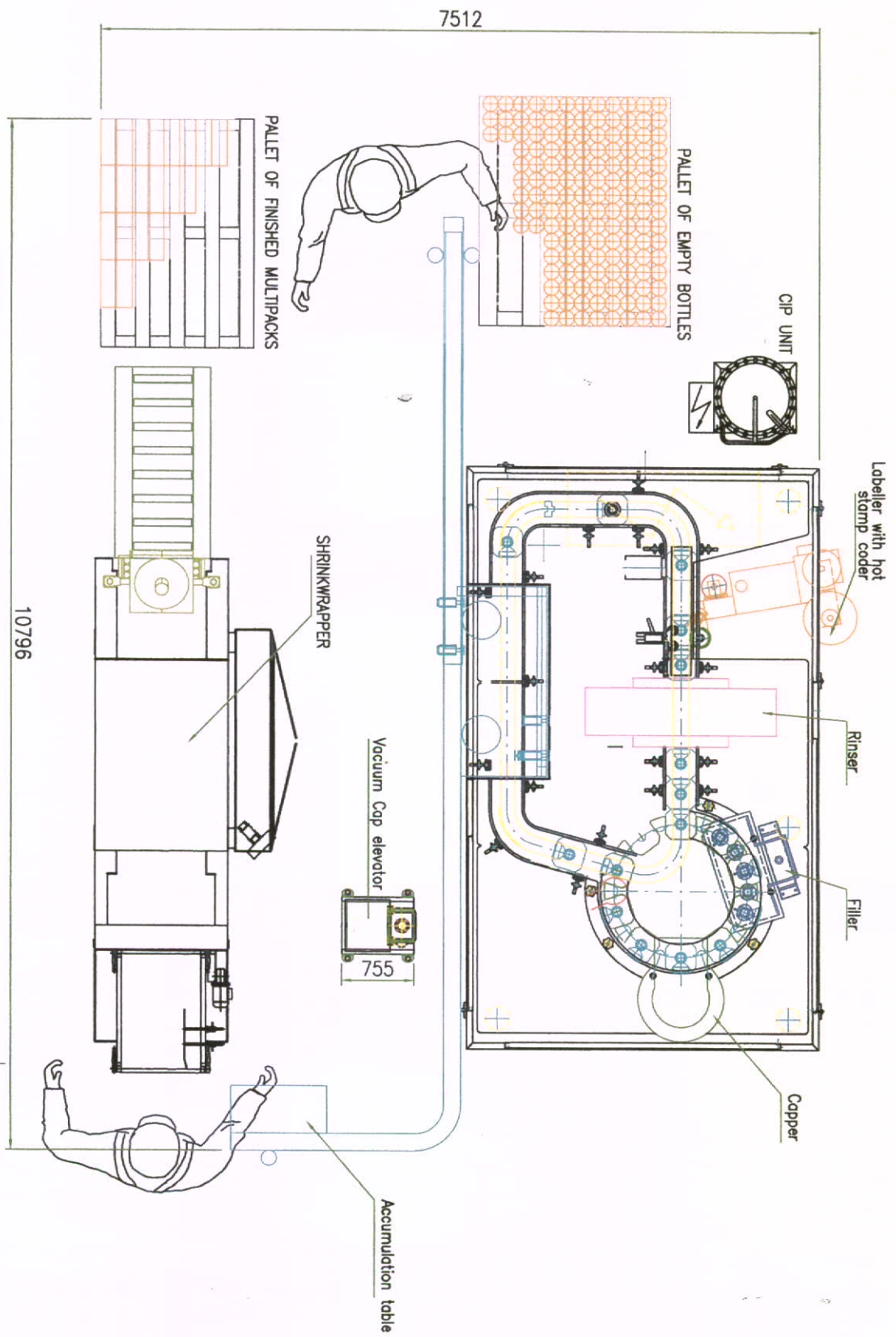
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PLANNING & BUILDING COUNCIL

4-IN-1 WATER FILLING MONOBLOCK FOR PET BOTTLES

800bph on 1ltr





TECHNICAL DESCRIPTION

Complete bottling machine for filling and packaging glass and plastic containers with water. The automatic bottling and packaging machine is a closed monoblock, constructed on a base of tubular stainless steel and FDA grade plastic materials.

The single piece of equipment includes all the stations performing the individual phases of labeling, rinsing, filling, and capping.

- 1- Self-adhesive label application, partial or wraparound.

The labeling group permits a quick, easy and economic label format change. Empty container labelling ensures precision and elimination of problems due to condensation and low temperature.

Optional date coding and bar coding of the labels.

- 2- Rinsing station with 360° bottle rotation and sterile water jet injection
- 3- Gravity filling tank. Normal-pressure level-control
- 4- Capping station for plastic screw on caps.

Hygiene: high resistance to chemical agents such as detergents, sanitation and sterilization solutions.

Basic manual operation for container feeding and removal up to 300-1000 bph, depending on the type of product and container capacity.

An optional kit renders the machine fully automatic.

Dimensions (LxWxH): 3050 x 1840 x 2000mm

Weight: 600-800kg

Productivity: 800bph

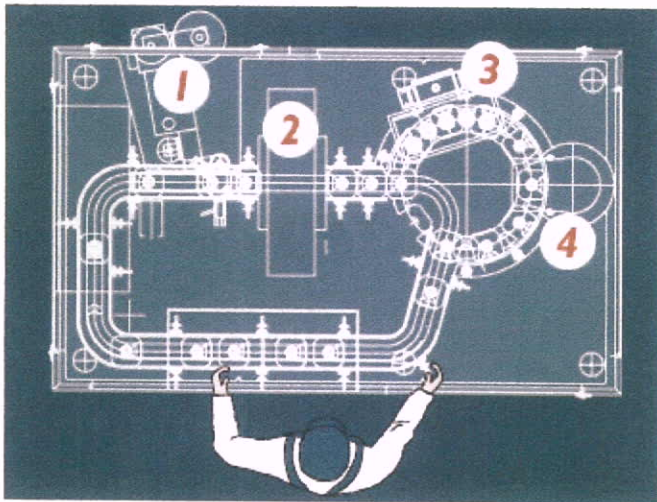
Installed power: 3/4Kw

PROJECT TECHNICAL DATA

| | | |
|-----------------------------|-----|---------------|
| Min. outside Temperature | °C | 0° |
| Min. inside temperature | °C | 5° |
| Max outside Temperature | °C | 42° |
| Max inside temperature | °C | 28° |
| Humidity | % | 40 |
| Tension | V | 400 , +N+PE |
| Frequency | Hz | 50 |
| Max tension variation | % | +/- 5 |
| Compressed Air | bar | min. 8 Max 12 |
| Water pressure | bar | min. 3 Max 4 |
| Water pressure for cleaning | bar | min. 4 Max.7 |
| Gas pressure | bar | min.10 Max.16 |
| Steam pressure | bar | min 2 |

PRODUCT TO FILL

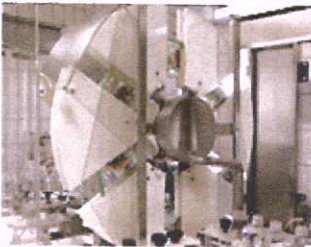
| | | |
|---------------------------------------|------|------------------------------------|
| Product | : | Water |
| Reference product | : | Water |
| T °C min. e Max. reference product | °C | 4 |
| Nominal output with reference product | bph | 1.000 bph of 500ml |
| Reference bottle | Cap. | 500ml PET cylindrical |
| Reference closure type | : | Plastic screw cap |
| Additional bottles | : | |
| Additional closure | : | |
| Label type | : | Body partial label – Self adhesive |
| Bottle infeed into the machine | | Manual |
| Working height | : | 1.100 mm ± 50 mm. |



MONOBLOCK LAYOUT



1) SELF ADHESIVE LABELLING STATION

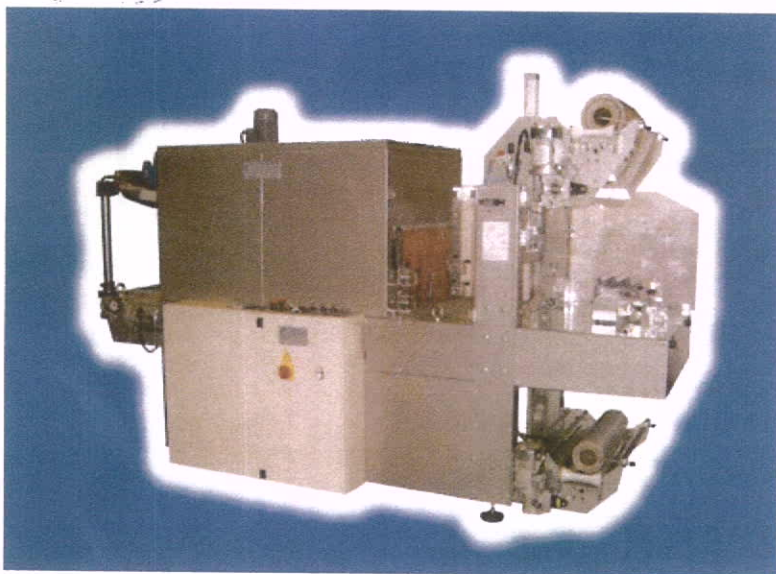


2) RINSING STATION



3 & 4) FILLING & CAPPING STATION

SEMI-AUTOMATIC SHRINKWRAPPER



Suitable for wrapping with thermo-shrinkable polythene "flat sheet" film your bottles in the following formats on cardboard sheets or trays.

Production: 7-8 packs per minute (depending on operator's ability)

- pneumatic in-line pack pusher with scraper, work surface in stainless steel
- 700 mm. "hot bar"-type welding bar with cold-type film cutting blade (one avoids smoke during welding phase) operated by a pneumatic cylinder, complete with safety device
- control of the temperature of the sealing bar with Derived Integrated Proportional electronic thermo-regulator with alarm threshold (the machine does not work automatically until it reaches the set operating temperature)
- safety photoelectric cell that blocks the sealing bar if it finds an obstacle on its trajectory
- opening passage under the sealing bar 380 mm.
- self-dimensioning mechanical product presser unit assembled directly onto welding bar unit
- automatic upper reel film unwinding system with pinch rolls
- automatic lower reel film unwinding system with pinch rolls
- measures max. reel of polythene float sheet shrink film reels band 680 mms – diameter 350 mm – thickness from 35 to 100 micron
- product containment guides
- interchangeable products parking plate with dimensions to be defined
- Above is to facilitate coil change and avoid that film slips off from rolls and it is therefore
- shrink tunnel with 1300 mm long chamber, isolated with rock wool and heated by resistances, each with passage opening of 600 x 400 (height) mm.
- forced ventilation with air recycling
- control of the temperature of the tunnel with Derived Integrated Proportional electronic thermo-regulator with alarm threshold (the machine does not work automatically until it reaches the set operating temperature)
- external regulation of the air flow inside the tunnel chamber
- tunnel conveyor belt, controlled by adjustable speed gear motor in stainless steel fine net with side chains
- speed gear motorcycle with tunnel belt halt during sealing (ventilation is maintained)

VACCUUM CAP ELEVATOR

For the 'clean' feeding of caps from floor level into the automatic cap feeder by means of a vacuum system. Suitable especially for factories with limited space requirements.

KLINKAPS is an innovative feeding system for plastic and metal caps which drastically reduces dust contamination in transit to the capping machine.

KLINKAPS consists of a loop system that takes away air from a sealed cyclone positioned on top of the capper. The cyclone, in which a depression has thus been created, then sucks the caps into the cyclone in from the loading bin. An air filter system feeds air into the sealed closures bin to ensure total dust removal.

When the cyclone is full, an automatic release system drops them into the cap sorter and then reseals itself.



Semi- automatic CIP Sanitising system

1 Tank in stainless steel AISI 304

Total capacity: **200 litres**

Bigger capacity requires extra charges

1 Heater group a vapour to immersed serpentine

1 Filters DN50

Realised in stainless steel AISI 304

Pipeline and valves DN 50

1 Transducer of temperature type PT 100

Class A, simple element

1 Centrifugal pump in stainless steel AISI 304

Capacity: l/h 12.000

Head: m.c.a. 30

Motor: 400 V – 50 Hz – IP55 3 phase

Installed power: kW 4

Motor housing in AISI 304

Switchboard in PVC

It is composed of:

Push-buttons start/stop of the pump;

General switch;

Power section endowed of opportune protection for the command of the pump;

Display of the temperature of washing;

Electric system

Complete of cable ducts, cables, girdles, and how much other necessary

Preassembly and test at our workshop

