



ACO Packaging Ltd

SUPPLIERS OF NEW & USED BOTTLING MACHINERY FOR OVER 40 YEARS

14, Crane Mead Business Park, Ware, Herts, SG12 9PZ, England
Tel: 01920 484050 Fax: 01920 484050 E-mail: info@acosales.co.uk Web site: www.acosales.co.uk

<i>Machine</i>	AUTOMATIC MONOBLOC
<i>Bottles</i>	GLASS BOTTLES
<i>Caps</i>	CROWN CAPS
<i>Product</i>	CARBONATED DRINKS
<i>Filling Temperature</i>	0 °C – 4 °C
<i>Bottles / Hours</i>	Up to 6000 Bph on 330ml glass bottles
<i>Working direction</i>	Bottle from LEFT → RIGHT or RIGHT → LEFT - To be defined

PROJECT DATA & TECHNICAL SPECIFICATIONS:

RINSER

NOZZLE TYPE : FIXED
NOZZLE NUMBER : 9-20

FILLER

FILLING TYPE : ISOBARIC
FILLING VALVE NUMBER : 9-32

CAPPER

CAP TYPE : CROWN CAP with Ø to be defined
CAPPING HEAD NUMBER : 1-4

WORKING HEIGHT : 1.050 +/- 50 mm
CONVEYOR DIMENSIONS : 100x100 mm CLOSE SECTION (TO BE CONFIRMED)
CONVEYOR CHAIN TYPE : INOX 82,5 mm x H. 3 mm (TO BE CONFIRMED)
Ø MIN BOTTLE : 50 mm
Ø MAX BOTTLE : 110 mm
HEIGHT MIN BOTTLE : 150 mm
HEIGHT MAX BOTTLE : 350 mm
MAIN VOLTAGE : 400 Volts +/- 5%
FREQUENCY : 50 HERTZ
TENSIONE AUSILIARE : 24 Volts
POWER : 3,5 KW
REFERENCE STANDARD : CE
CONTAINER MATERIAL : GLASS
SHAPE : CYLINDRICAL
FILLING TEMPERATURE : 0-4 °C
CONTENT OF CO₂ : 6,0 g/lt

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RINSER :

Turret Installed on unique machine frame, machine specifies the rinsing of glass bottles with an injection (internal spray) of filtered water for an easy sanitification.

- Rinser carousel and structure completely made in stainless steel AISI 304
- Inside bottle rinsing system type mechanical to overturn with inversion of 180° of the bottle
- Rinser cycle type 1 treatment with water to drain
- All the supports and product contact parts are completely made in stainless steel AISI 304 or Plastic material
- Gaskets and other materials in contact with product are completely realized in material with verified food compatibility
- Gripper pads for block of bottle neck are completely made in stainless steel AISI 304, rubber pads supply with system type quick change over
- Injection system of water/product to rinser inside the bottle through the valve with a mechanical start, each one for each single nozzle
- Nozzle type fixed made in stainless steel AISI 304
- No bottle-no spray
- Water filter group made in stainless steel AISI 304 (SMC 1 micron) complete with relative safety pressure device (control of pressure water in entrance)
- Height adjustment (independent) manual with handweel only for the rinser turret for various heights of containers to be treated

FILLER :

Turret Installed on unique machine frame, machine specifies for the filling of the beer product in glass bottles.

- The product tank is certified construction norm CE, PED
- The inside surface of the product tank is mirror finished
- Gaskets and other materials in contact with product are completely realized in material with verified food compatibility
- Pistons for lifting up the bottle by pneumatic system (type of operation with a closed circuit) with a base for bottle support in stainless steel AISI 304
- All the parts in contact with the product, are completely made in stainless steel AISI 304
- Feeding valve of the product type on off
- Filling valves type Isobarametric with mechanical filling phases with additional push buttons for double pre-evacuation into the bottle during the production
- Filling valves with mechanical system driven by an external cam and the related contact on that with a lever type multiposition valve opening

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- Height adjustment of the fill product level in the bottle by substitution of the filling tube, one filling tube for each one filling valve
- The filling valves are completely made in stainless steel Inox with treatment type "electro- polished "
- Height adjustment (independent) by manual handwheel
- Filter group for air, CO2 for conterpressure
- Valve for infeed product
- Valve for conterpressure in/out
- Set of manual valves to plan the cleaning cycle on the filler, CIP (automatic version in the options)
- All the safety valves are certified construction norm 97/23/CE P.E.D
- Easy accessibility of maintenance and full control of the correct operation of all the valves product, filtered air and CO2 and relative pressures of exercise on the filler. Very elevated advantages for the operators.

CAPPER :

Turret Installed on unique machine frame, machine specifies for the cap closing of the crown cork.

- Turret type 1-4 head for application of crown caps
- Bottle feeding system by starwheel, movement with mechanical cam
- Centrifugal cap feeder in stainless steel AISI 304, with sensor to control the level of the caps
- All the turret parts in contact with the product are realized in stainless steel Aisi 304
- Cap chute with sensor for the control of cap presence completely realized in stainless steel AISI 304
- Capping head with a special treatment type "tempered", suitable to closing of caps type "crown caps"
- Device of distribution / transmission caps directly in the capping head
- Height adjustment (independent) manual with handweel only for the capper turret, for various heights of containers to be treated.

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FRAME STRUCTURE & PRINCIPAL COMPONENT :

- Plinth and frame top table structure with galvanized carbon steel, complete with adjustable feet in height for an easy positioning in line
- Lateral side coverage and top coverage (frame top table) made completely in stainless steel AISI 304
- External channel around the perimeter of the table to drain water or product with 2 or 4 points of tubes connection discharge, made in stainless steel AISI 304
- Conveyor for bottles in stainless steel AISI 304 (close section type) with section 100 x 100 mm (to be confirmed), with Length 3.000mm, complete with rolls and sliding profiles in plastic for 82.5 mm flat top chain (drive motor & inverter not included)
- Main motor-gear with grease lubrication "long-life"
- Principal supports on the plinth with centralized lubrication, points of greasing grouped on an external panel
- Safety guards with doors (stainless steel frame) for an easy access to the machine from the operator side, with electro-mechanical safety limit switch, in case of accidental opening of one door the machine will be stopped immediately. Safety guards according to CE rules
- All the supports and all the parts on the machine that could be in contact with the product, are completely realized in stainless steel AISI 304 or Plastic material
- Electro-mechanical safety limit switch installed under the gear of the starwheels supports and on the worm screw for an immediate stop of the machine, to avoid breakups of bottles or possible damages to the machine
- Principal electric cabinet realized in stainless steel AISI 304 with auxiliary commands to 24 volts
- Hand held type detachable (JOG), for machine start with impulses (step by step). For change over or adjustment
- Automatic regulation of the speed through inverter and relative photocells fixed on the conveyor to management: changes of speed, acceleration and deceleration of the machine, accumulation and possible stop of the machine
- Machine with automatic control by PLC type TELEMECANIQUE
- Automatic variation speed managed by inverter TELEMECANIQUE
- Control panel complete with buttons and Touch Screen for commands and status of alarms or malfunctions, installed in the electric board
- **Tribloc equipped with:**
N°01 bottle format, N°01 neck format and N°01 crown cap for glass bottle

The whole change format are encoded with the plates numbered with different numeration, besides these plates numbered for every different equipment are of different color, therefore for every additional format we have the different numerations, but also the color is different. This to allow the operators for a very easy and fast change over.

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SUMMARY

DESCRIPTION OF CHANGE FORMAT
Complete set of bottle change parts
Set of neck centering device
Set of filling tubes, for a different height level on the bottle

OPTIONS :

DESCRIPTION
Product pump
Set of dummy bottles for filler, manual installation
Management of product pump using inverter, sensors and program of the PLC necessary for the exchange of the signals.
Tank for recycling fluid
Mechanical cap elevator
Conveyor belt motorization

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