



FITECO

BEER LINE



«SOME PEOPLE SEE EXISTING THINGS AND SAY: WHY?
WE ENVISION THE FUTURE AND ASK: WHY NOT?»

Technology choice

- Filling material and container
- Most suitable technology choice

Project study

- Analysis data of production
- Machine project choice
- Safety reference regulation
- Proposal validation



Project technical implementation

- Container feeding
- Container transport system
- Filling and capping
- Checking
- Labelling
- Packing

Proposal presentation

- Project proposal to the customer
- Discussion of the project
- Finalization

RINSING MACHINE FOR BOTTLES CLEANING



Infeed screw, star wheels and guides are easily exchangeable for handling different bottle sizes.

Exit star wheel is fitted with a safety device which stops rinser in case of jamming.

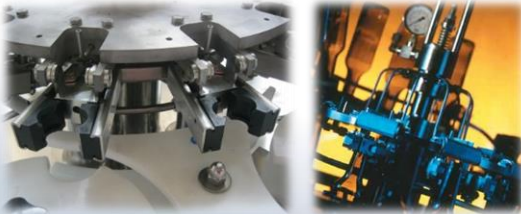
The rotary main frame carries a set of stainless steel bottle grippers.

Container positioning through fixed twist in stainless steel.

To accommodate different bottle sizes, the rotating main frame can be adjusted in height.

Treatment cycles regulation and treatment timing can be easily changed.

Treatments regulation can optimize products sterilization expenses.



Step 1 - Position and bottle taking.

Step 2 - Tipping.

Step 3 - Injection.

Step 4 - Dripping.

Step 5 - Bottle righting.

Step 6 - Release.



SECOND TREATMENT WITH NITROGEN

Rinsing machine can be equipped with a Nitrogen generator for the second treatment of the containers.

Nitrogen is blown into the container to evacuate the air contained, reducing the product oxidation during the filling process.

System commonly used in beer bottling to avoid the use of pre-evacuation in the fillers.



ISOBARIC FILLER FOR CARBONATED BEVERAGES FITISO/C



Mechanical construction very reliable and sturdy.

Mechanic isobaric filling valve for carbonated beverages.

Good consistency of fill levels without auto-levelling accessories.

Isobaric filling valve is positioned inside the annular tank and has few moving parts that ensures a good sanification (CIP).

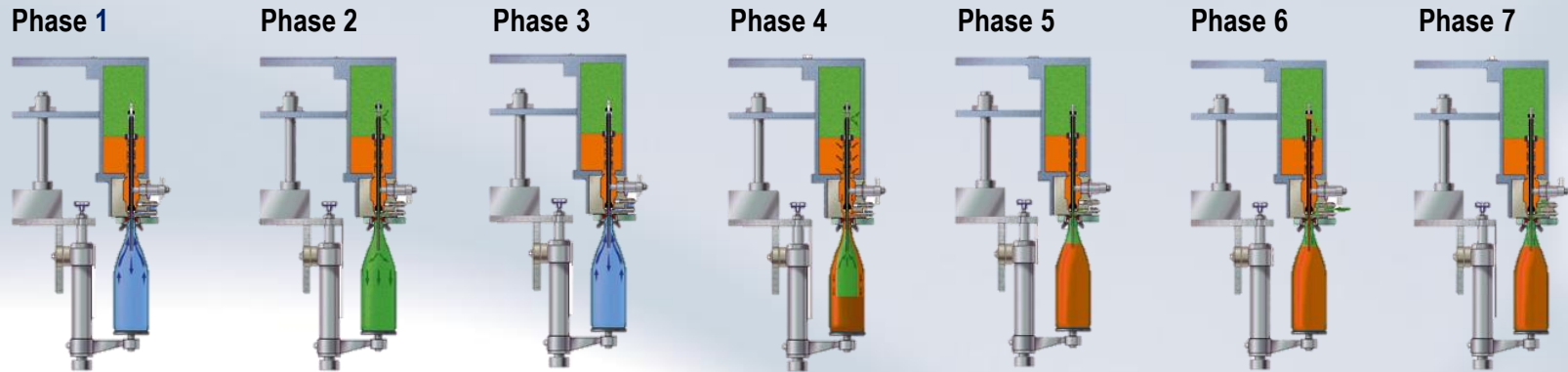
External controls of valves cycles engineered and designed with minimum regulatory interventions and maintenance.

Quick changeover times: centring bells bottle neck and level probes with quick release.

“UC” version: with HEPA filters to give a laminar flow of sterile air and contamination control of the filling area.



ISOBARIC FILLER PHASES FOR FITISO/C FOR BEER



- Phase 1** The first phase is to evacuate the air contained in the bottle.
- Phase 2** After the evacuation is injected inert gas (CO₂ or N₂).
- Phase 3** Second evacuation to obtain the complete absence of oxygen inside the bottle.
- Phase 4** Open the filling valve with pressurization phase and start filling.
- Phase 5** Completion filling with stationary stage.
- Phase 6** Closure of the filling valve.
- Phase 7** Release of the pressure from the bottle

The evolution for the electro-pneumatic filler FITISO/EP control machines is the total management of the filling valve for carbonated and flat beverages, optimizing timing and the changeover of product and size, selecting the right recipe directly from the operator panel without any manual intervention.

The air return circuit is separated from the product circuit to avoid any pollution and oxidation.

Automatic adjustment of the timing and venting management.

The advantages of this technology are that is possible to adjust the timing of the production phases according to the capacity of the container and the type of product to optimizing the production performance of the filler and the quality of the final product.

Consequently, it is able to optimize in a perfect way the fluxing step (alternating Vacuum-Pressurization) to prevent oxygenation of the product.



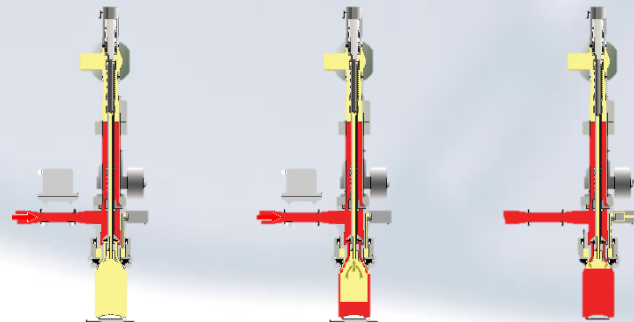
Rinsing machine for cans cleaning

The twist rinser is a fixed device placed in line, cans pass through the twist rinser before the filling, carried directly by the system conveyor or by the rope conveyor. Cans are inserted upside-down, and after the treatment, they are put in right position.



Canning line

Ideal conditions for filling Carbonated Soft Drinks (without foam creating) at high speeds and at reasonable temperatures for packaging are developed by the following features:
Small dimension central product tank.
Air return collector separate circuit,
Telescopic centring can with descent pneumatic system to ensure a continuous pressure during the filling.



Fluxing

In the treatment of metal containers (cans), not being able to operate in the vacuum condition in the phase of evacuation of the air, it uses a process called "fluxing". The fluxing treatment consists to blowing into the cans inert gas before the filling step to evacuate completely the air contained preserving the product from oxidation.



SINGLE HEAD CAPPING SYSTEM

Low production automatic capping machines are suitable for small to medium productions.

Flexibility, innovation, and technology for machines characterized by a value for money at the top of the market.

All capping machines are available in free-standing version or built in the monoblock.



Rotary capping machine suitable for application of aluminium screw **R.O., R.O.P.P.**

Rotary corking machine suitable to apply natural **straight or mushroom** corks on sparkling glass bottles.

Rotary capping machine with **crowning heads** with cone for permanent deformation suitable to apply crown corks, twist-crown or ring-pull on glass bottles.



SEAMER MACHINE

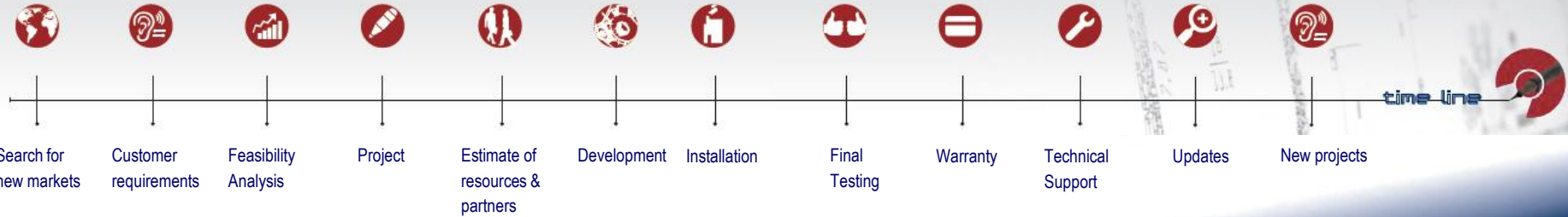
Seamers are suitable to seam a wide range of round containers filled with soft drinks, beer and carbonated soft drinks. Under cover gassing systems are available on request.

The seamers can handle open top, easy open and easy peel lids. From 10 to 1200 c.p.m. according to the product and container size.

Fiteco to 360°



“ Your trustworthy partner
to satisfy your ambitions ”



FITECO With over twenty years of experience in the field of bottling, automation and engineering of its employees, can guarantee a 360° support starting from the analysis of project feasibility and costs, focusing on customer requirements, through the development, the selection of the most suitable partners, to installation and testing.

The FITECO mission is to provide a high standard of engineering in food, beverage and packaging of complete plants, researching the best market solutions to satisfy customer's needs, and thanks to its versatile, dynamic and avant-garde corporate structure, can provide

filling technology



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