

RINSE FILLER CAPPER



**Water, Milk, Natural Juice, Synthetic Juice, Carbonated Drink, Yogurt,
Tea, Energy Beverage, Liquid Medicine, Sauce and Wine...**

FULLY AUTOMATIC RINSING FILLING AND CAPPING MACHINE

AE Model, 3-in-1 filling mono-block, combined with rinsing, filling and capping. It is innovated and designed in the requirement of milk, natural juice, synthetic juice, carbonated drink, pure water and mineral water, on the bases of introducing, digesting and absorbing advanced technology. Filling Machines offered are made available by us in world class design standards that meet the filling needs of PET bottles. With the machines finding application in different industry sectors, the precision construction standards of the systems assist in ensuring these matches up with the specific process needs at client's end.

RINSERS



- The machine is suitable for cleaning pet bottles and glass bottles of various materials with easy operation.
 - The machine suitable for different sizes of bottles by changing proper accessories only.
 - The water injection devices are made of special material, and allowed to use cool and allowed to use cool or hot cleaning water.
 - The in-feed screw and in-feed star wheel are driven each with a gear made of MC nylon and gear made of iron, which can lower noise and prolong the working life of the gears.
- In-feed screw, bottle guild plates, star wheel and bottle gripping pads are easily exchangeable for handling different bottle sizes, moreover, in-feed star wheel and exit star wheel are all equipped with safety devices to make sure that the machine will automatically stop working in case the with water injection valves even at a high speed.
 - When gripping bottles, bottle gripping heads are working in synchronous steps with the star wheels, so that they can grip bottles accurately and make bottle mouths precisely aligned of the injection valves is adjustable with easy operation.



FILLERS

The fillers are suitable for filling plastic bottles, glass bottles or cans with fresh milk, drinking yogurt, mineral water, juice, wine, sauce, liquids of medicine as well as chemicals and other drinks. Designed for specific requirements, we can offer customers with the following fillers according to different filling ways.



Standard Filler Features

- The speed reducers of the bottle rinser, the filler and the capper are coupled together with a cordon joint so that these machines driven synchronously and can keep stable in the high-speed production.
- The filling valves made of proper materials and met with the food grade sanitary standard are suitable for cool or hot filling and are simple for assembly or disassembly without need of any tools.
- The machine is suitable for different types of bottle and is easy to change parts without need of any tools.
- The mechanical height of the machine controlled with an electric vertically moving device is convenient to make proper adjustment for bottles with different heights.
- The machine controlled by the programmable logical (PLC) is provided with the inverter for controlling its speed. A control cabinet can be designed to be displayed with man machine interface for the convenience of operation and elimination of malfunction.

Filler with CIP System Features

- The machine is combined with a rinser, a filler and a capper in one machine construction.
- Besides all the features of the standard filler, the machine is featured with a function of automatically cleaning in place (CIP) so that the filling bowl and filling valves can keep clean under the accurate cleaning work of the machine, greatly saving the cleaning time done by manual labor.



Air-Liquid Separation Filler

- PET bottles are delivered to the machine in a way of being gripped in the neck not being held at the bottom so that the bottles may not become depressed in the filling process in case of being pressed.
- Moreover in such way bottles may not be influenced in the appearance after filling and filling level.
- Is no need to adjust the mechanical height of the machine when changing bottles with different heights.
- A filling way of air-liquid separation:
The machine filled with a way of air-liquid separation limits the air drawn from the bottles only to be exhausted via vacuum tubes, without entering the filling bowl, by which the machine can increase its filling speed and provide a more sanitary filling quality by avoiding liquid to directly contact with the draw air that may be a source of pollution.

Vacuum- Type Filler

The machine is suitable for filling drinks with glass bottles and can be co-ordinated with a capping machine. Beside all the features of the standard filler, the machine is featured with a way of filling by high vacuum that is suitable for sauces with a higher viscosity, such as soya sauces paste, tomato ketchup, thick chilly sauce etc.



CAPPER

The capping system is suitable for crown caps, plastic caps, aluminum caps, snap caps, plug caps etc. designed for specific cap, we can offer customers with the following cappers. All types of cappers can be co-ordinated with fillers.

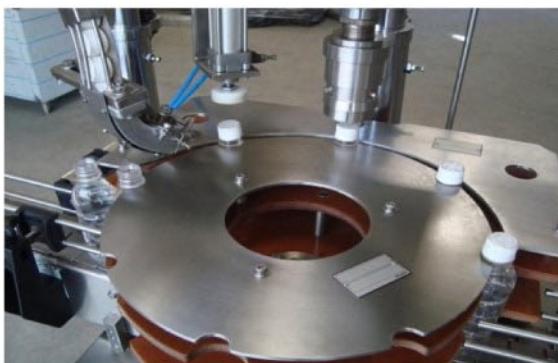


Capper for plastic caps

- The machine is equipped with star wheels to plastic caps.
- The star wheels respectively used for bottles and plastic caps are operated synchronously so that the plastic caps can be precisely aligned with and screwed on the bottle mouths in the high-speed production.
- The screwing head of the machine are equipped with regulators having permanent magnetic floating torsion to provide the machine with stable torsion by which the mechanical structure of the machine will be reduced wear as well tear and allow plastic caps to be screwed on the bottle with stable quality.
- The machine is provided with bottle presence sensors having the function of not releasing cap when bottles are not located in their positions.

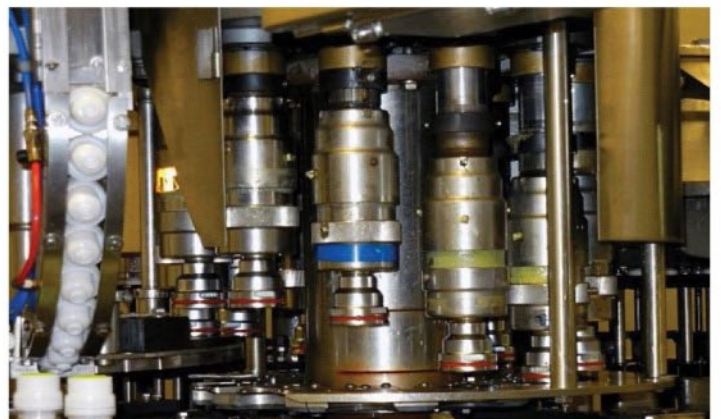
Capper for aluminum caps

- The machine can be adjusted respectively in the top pressure and the side pressure to make sure of good quality in rolling aluminum caps.
- The thread-rolling tools of the machine hardened and toughened with heat treatment are hard to be worn.
- The capping heads are equipped with feeler-pin devices for detecting the presence of aluminum caps. When bottles are located in the position, the thread-rolling tools will not work unless aluminum cap are released down by which bottle mouths can be kept in safety without being worn by the thread-rolling tools.
- The machine is provided with bottle presence sensors having the function of not releasing aluminum caps when bottles are not located in their positions.



Pressing-Type Capper

- The machine is equipped with cranks to pick up caps that will be delivered to the pressing heads where caps will be sucked by the vacuum suckers of the pressing heads and be pressed on the bottle mouths.
- The movements having caps sucked by vacuum suckers and pressed on bottle mouths synchronously make caps can be precisely pressed on bottle mouths.

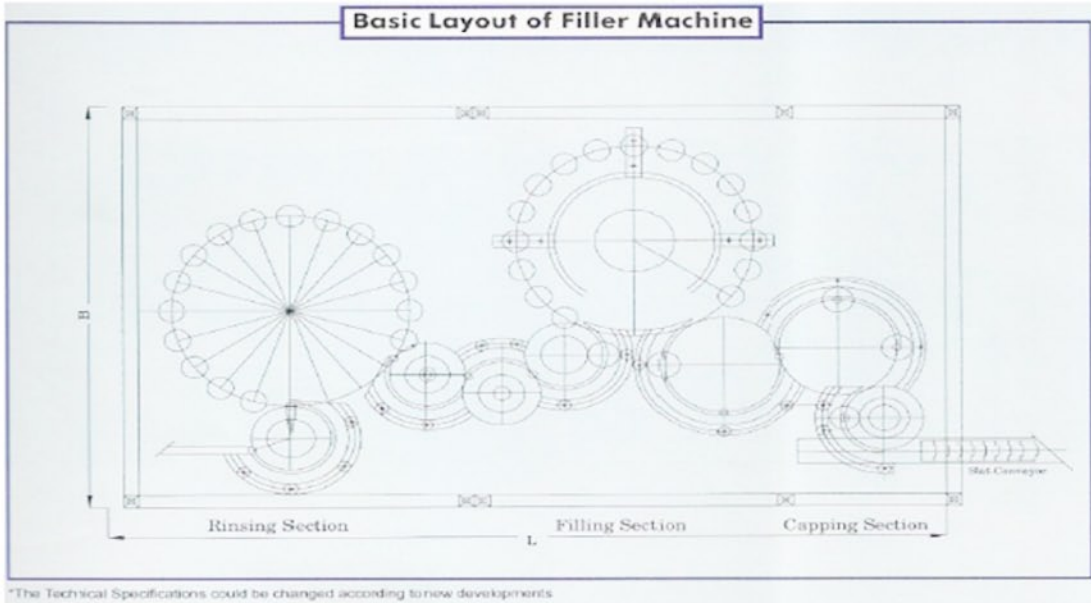


Technical data :

Model : 12-12-4
Capacity : 60 bottles per min.
(Base on 600ML)

Power:

Main power : 3hp
Cap selector : 1/4hp
Blower : 1/2hp
Rinsing pump : 3/4hp
Circulation pump : 3/4hp



Features :

- The filling valves made of proper materials and met with the food grade sanitary standard are suitable for cool or hot filling and are simple for assembly or disassembly without need of any tools.
- PET bottles are delivered the machine in a way of being gripped in the neck not being held at the bottom so that the bottles may not become depressed in the filling process in case of being pressed. Moreover in such way bottles may not be influenced in the appearance after filling and filling level.
- It is no need to adjust the mechanical height of the machine when changing bottles with different heights.
- The machine filled with a way a way of air-liquid separation limits the air drawn from the bottles only to be exhausted via vacuum tubes without entering the filling bowl by which the machine can increase its filling speed and provide a more sanitary filling quality by avoiding liquid to directly contact with the drawn air that may be a source of pollution.



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