

# Automatic

Water Filling Machine **3-in-1**

**CGF SERIES**

washing  
**Filling**  
Capping



**02-8921588**

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# Automatic CGF SERIES

Water Filling Machine **3-in-1**

**This series of machines** are used for the production of non-carbonated soft drink, such as pure water, mineral water and so on. It integrates bottle washing, filling and capping into one body of the machine. It is very convenient to change bottle size by means of advanced bottleneck clamping & bottle suspending technology.

Advanced programmable PLC is equipped to control the main machine. Main electronic components are all from famous international enterprises. All spare parts that connect with material are made from high-quality stainless steel.



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Model:	CGF8-8-3	CGF14-12-5	CGF16/12/6	CGF18/18/6	CGF24/24/8	CGF32/32/10	CGF40/40/12
Production Capacity: 500ml(b/h)	2000-2500	3000-4000	4000-5000	6000-8000	8000-10000	12000-15000	18000-20000
Filling precision	<=5mm (liquid level)						
Suitable bottle standard(mm)	Bottle diameter: 50-100, bottle height: 150-320mm						
Suitable cap standard(mm)	Plastic screw cap						
Total power(Kw)	3.5	4.23	4.23	5.03	6.57	8.63	10.68
Overall Dimension(mm)	1650x1200x2200	2050x1500x2200	2100x1500x2200	2450x1800x2200	2750x2180x2200	3500x 2200x2250	4200x2400x2350
Total Weight(kg)	1200	2000	2000	3500	5500	8000	9500



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## Water Filling Machine 3-in-1

**CGF Series Machine** is special for non-carbonated beverage, such as pure water, mineral water etc. The washing, filling and capping will be finished just by this one machine. Convenient to change bottle size by means of advanced bottle conveying technology--bottleneck clamping & bottle suspending technology. It is innovated and designed in the requirement of water filling technics, on the bases of introducing, digesting and absorbing advanced technology abroad. It is reasonable in structure, safe to operate and easy to maintain, which is an ideal choice for beverage producers.



### Features:

1. Compact structured, good-looking, easy to operate and highly automated.
2. Air conveyor is directly linked with feed-in starwheels, making it easier to change bottles without screws and conveyor chains.
3. Bottles are transferred in the manner of hanging neck. Bottles can be changed through some replacement, which instead of adjusting the height of machine.
4. Rinsing-clamp which special design is strong and durable, no contact with bottle-mouth, to prevent pollution.
5. Highly effective spraying nozzles equipped on the rinsing-clamp can rinse every side of inner bottle and save water.
6. Accessories which contact with material are all made of stainless steel, no dead angles and easy to clean up.
7. Bottling volume can be controlled by membrane adjusting valves to ensure accurate filling.
8. Valve on-off system is driven by hydraulic cylinder, which starts on bottle signals.
9. High-speed and highly accurate bottling valves ensure no loss of liquid at high speed.
10. Equipped with perfect clean management system to ensure the bottle clean.
11. Bottom splint which fixed in the feed-out star wheel goes down in the manner of screw. Bottles can be changed without adjustment of height of conveyor chain.
12. Capping heads are magnetic constant-torque equipped to ensure capping quality with no damage.
13. Highly effective cap sorting and feed in system is protective for feed in and cap absence.
14. Equipped with overload system to safeguard machine and operators.
15. Touch screen operated.
16. Main electronic components (touch screen, PLC and frequency inverter) are imported products.



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Water Filling Machine 3-in-1

## Working procedure:

The air conveyor is connected with the monoblock and bottles are fed into the filling machine monoblock via clamping bottle neck. Advantages: (1) Changing bottle size, only starwheel is changed. In order to save the cost and time. (2) In avoid to the second pollution of the bottle neck.

The filling monoblock works as follows: Bottles are fed from feed-in starwheel into the rinsing machine monoblock via starwheel. Bottle clamp installed on the rotary wheel of the rinser will grip bottle neck and make a 180° turn along a guide track to face the bottle mouth downward. In designated section of the rinser, rinsing water will jet out from special nozzle s to flush bottle inside wall. After rinsing and dripping, bottles gripped by bottle clamp will make another 180° turn along a guide track to resume bottle neck facing up position. Clean bottles are discharged out of the rinser by a star wheel to feed the filler. After entering the filler, bottles are retained by neck supporting carrier plates, which are actuated by bottle carrier mechanism to raise them by cam. The filling ways adopt gravity filling. Filling valves are opened by bottle presence signals. After finishing filling, valves are closed by valve closing mechanism to further stop venting to complete the filling process. Bottle carrier mechanism is lowered by a cam to disengage filled bottles with filling valves. Then bottles are transferred into the capper by a neck handling star wheel. Anti-rotation blades on capping heads will seize the bottle neck to prevent it from rotation and hold it in an upright position. The twist-on capping head will make revolving and rotating movement along with the machine to finish the complete capping process of cap picking, placing, twisting, and disengaging under the control of a cam. A discharge star wheel discharges finished bottles onto discharge conveyor belt to be conveyed out of the filling monoblock.



## Equipment structure:

1. Rinsing system: Combined with rotary tray with clamp, water distributing tray, water tank and rinsing pump.
2. Filling system: Combined with hydraulic, filling valve, controlling ring.
3. Capping system: Combined with capper, cap sorter and cap falling track.
4. Driving system: Combined with main motor and gears.
5. Bottle transmitting system: Combined with air conveyor, steel starwheels and neck supporting carrier plates.
6. Electrical controlling system: this part is frequency inverted, PLC controlled and touch screen operated.





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## Origin of Main Parts:

1. Material of filling valve: Stainless steel 304.
2. Material of rotary tray and machine platform of rinser and filler: Stainless steel 304.
3. Main motor: ZHEJIANG.
4. Sliding bearing: HAERBIN
5. Frequency inverter: MITSUBISHI.
6. Touch screen: MITSUBISHI.
7. PLC: MITSUBISHI.
8. Pneumatic components: AIRTAC.
9. Seals: Busak+Shamban.
10. Proximity switch: DELIXI .

## Lamp checker:

- 1 Model: DJ-1
- 2 Capacity: 7000bph
- 3 Power: 40w
- 4 Dimension: 800\*130\*300mm
- 5 Usage: TO check the filled bottles.



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