

WXGF 5L、10L PET瓶灌装生产线

5L / 10L Drinking Water Filling Line

品质
Quality

服务
Service

高效
Efficiency

■ 产品描述 / Product Description

本机为5L-10L 瓶装水定制，产量1000-3000瓶/小时。

This machine is special made for bottles between 5L-10L PET bottles, with capacity from 1000-3000BPH.



1. three-in-one washing, filling and sealing machine



1. Main features:

Large-sized PET bottle pure water washing, filling and capping machine has absorbed the advanced technology of foreign products of the same type, with stable performance, safety and reliability.

- ◆ The machine has compact structure, perfect control system, convenient operation and high degree of automation.
- ◆ Using the conveying direct connection technology, it is simple and easy to change the bottle type. After the bottle enters the machine through the conveying chain, it is directly sent to the bottle washing machine by the bottle feeding steel dial (the bottleneck method).
- ◆ Using high-precision, high-speed quantitative filling valve, the liquid level is accurate without liquid loss, ensuring excellent filling quality.
- ◆ The capping head adopts a constant torque device to ensure the capping quality.
- ◆ It adopts an efficient cap arrangement system with perfect cap feeding technology and protection device.
- ◆ The height of the equipment can be automatically adjusted by changing the bottle shape, and it can be realized by replacing the bottle shifting star wheel. The operation is simple and convenient.
- ◆ The filling system adopts the bottle neck feeding technology to avoid secondary pollution of the bottle mouth.
- ◆ Equipped with a complete overload protection device, which can effectively protect the safety of the machine and the operator.
- ◆ The control system has the functions of automatic water level control, lack of cap

detection, automatic bottle flushing and output counting.

- ◆ The bottle washing system adopts the high-efficiency cleaning spray nozzle produced by American Spray Company technology, which can be cleaned to every part of the bottle.
- ◆ The main electrical components, electronically controlled valves, frequency converters, etc. are all imported to ensure the excellent performance of the whole machine.
- ◆ All components of the pneumatic system are internationally renowned products.
- ◆ The whole machine operation adopts advanced touch screen control, which can realize man-machine dialogue.

(1) Washing Part

After the bottle enters the host machine, it enters the bottle rinser through the transmission star wheel, and the bottle clamp clamps the bottle mouth and turns up 180° along the bottle flushing guide, so that the bottle mouth is downward. In a specific area of the rinser (determined by the water distribution plate - the rinse water is pumped into the water distribution plate by the rinse water pump, and then distributed to the rinse clamp by the water distribution plate through 12 pipelines), the rinse clamp nozzle is sprayed out. Rinse the bottle with water to rinse the inside of the bottle. After being rinsed and drained, the bottle is turned down 180° along the guide rail under the clamping of the bottle clamp, so that the bottle mouth is upward. The washed bottles are led out from the rinser through the transition steel dial (pure water rinse) and sent to the next process - filling. The use of large plane toothed bearings (slewing support) can make the equipment run more smoothly.



(2) Filling Part

High-precision, high-speed filling valve is used, the liquid level is accurate without liquid loss, ensuring excellent filling quality; the valve will not be opened when there is no bottle, and the liquid material will not be lost, ensuring excellent filling quality; the filling valve is made of high-quality stainless steel , The seal adopts the conical surface method, which is easy to clean and has no scaling. After the bottle mouth contacts the filling valve, it opens to complete the filling process. The filling valve is equipped with a flow control mechanism, and the flow rate can be set within a certain range according to actual needs.

The filling and sealing gasket is made of EDPN material, which is resistant to acid, alkali and ozone.

The connection between the filling system and the capping system is smooth, and the material in the bottle is not splashed. After the capping operation, the liquid level of the material in the bottle can still be kept within the filling level.

The power of the filling machine is transmitted by the transmission system in the frame through gears.

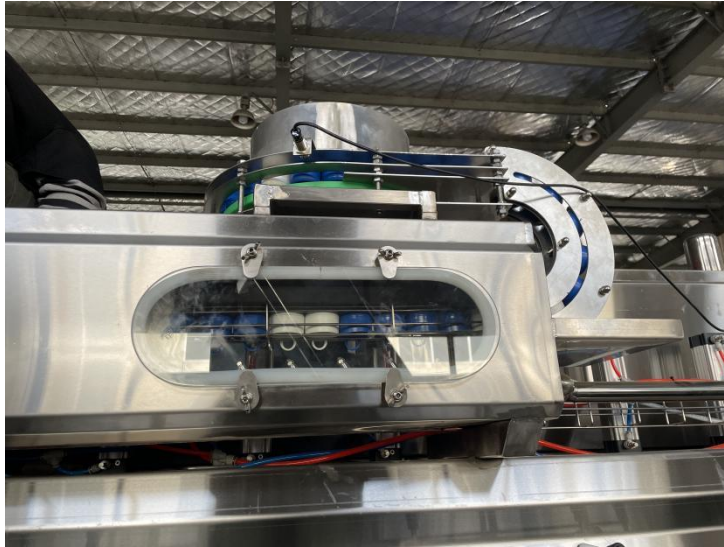
The use of large plane toothed bearings can make the equipment run more smoothly.

The bottle adopts the bottle neck conveying method at the filling, filling and capping connection dial and capping.

The use of large plane toothed bearings (slewing support) can make the equipment run more smoothly.



(3) Capping Part



After filling, the bottle enters the press capping machine through the transmission star wheel.

The bottle adopts the bottle neck conveying method at the rinsing, filling, filling and capping connection dial and capping.

2.Mainly equipped with filling machine:

No	Name	Brand
1	Main motor	ABB
2	Cap unscrambler motor	FEITUO(China)
3	Conveyor motor	FEITUO(China)

4	Rinsing pump	CNP (China)
5	Solenoid valve	FESTO
6	Cylinder	FESTO
7	Air-T contactor	FESTO
8	Pressure adjust valve	FESTO
9	Inverter	MITSUBISHI
10	Power switch	MIWE(TAIWAN)
11	Contactor	SIEMENS
12	Relay	OMRON
13	Transformer	MIWE(TAIWAN)
14	Approx switch	TURCK
17	PLC	MITSUBISHI
18	Touch screen	Pro-face
19	Air components	FESTO
20	AC Contactor	Schneider
21	Micro relay	OMRON