

# **3-in-1 automatic water Bottling machine**

## **1.Bottling machines profile**

The machines are mainly used in the mineral and pure water filling operations. The three functions of bottle rinsing, filling and capping are composed in one body of the machine. The whole process is automatic.

The machine is also used in filling juices, mineral water and purified water in bottles made of polyester and plastics. The machine can also be used in hot filling if being installed with temperature controlling device. The handle of the machine can be freely and conveniently turned to adjust the machine to fill various types of bottles. The filling operation is faster and more stable because the micro pressure filling operation of the new type is adopted. There the output and benefit of the machine is higher than the machines of the same specifications. The advanced OMRON programmed controller (PLC) is adopted to control the machine to run automatically while a transducer is used in the bottle -entering chains to adjust speeds and coordinated with the transducer of the main machine to make the operations of moving bottle forward steadily and reliably . It is convenient to operate with higher automation because every part of the machine is inspected to run with photo electricity, On the bases, the filling parts of the machine can be changed into filling methods of lower vacuum

## **Main parts**

- 1.Main motor ----- SEW company, Germany
- 2.Pump ----- Nanfang,China( CE)
- 3.Air valve ----- FESTON, Germany
- 4.Electric Control ----- SIEMENS company, Germany
- 5.PLC/HMI/Transducer ----- MITSUBISHI company, Japan

## 2. Working principle and Speciality

### 1. Working principle:

According to the photo,when the bottle is transferred to the machine through conveyor continuously. The bottle is transferred through air conveyor at first, then to Rinser. The machine start to rinse through the bottle nip clamping and turning over 180 degree. The bottle turn over to origin after rinsing. Then the machine start to fill through the middle gear wheel 1. After finish the filling,the machine start to cap through the middle gear wheel II. At the same time,the caps are feeded to the bottom of bottle through cap feeding. So capping is performing. The machine will start to the next working procedure after the bottle is transferred to the conveyor belt

### 2. Speciality:

- 1) Extensive applicability:the machine adopt full locking neck operation mode,you may adjust the height of the conveyor link carton when producing all kinds of bottle shape. So it is available for the bottle, the height is 150-310mm and the neck is **50-90 mm**
- 2) The capacity can be adjusted continuously: the machine adopt frequent timing,stable and reliable
- 3) The machine is of perfect and reliable safe protection system, it is easy to protect the machine and the operation

## 2. Main technical paramter

Model	CGF16-12-6	CGF18-18-6	CGF24-24-8	CGF32-32-8	Remark
Max Capacity(0.5 L )	4000BPH	7000BPH	12000BPH	14000BPH	
Rinsing head	16	18	24	32	
Filling head	12	18	24	32	
Capping head	6	6	8	8	
Bottle shape	Round or Square				
Diameter of bottle	50-90mm				
Height of bottle	150-310mm				
Compressed air	0.3-0.7Mpa				
Rinsing pressure	0.25-0.35Mpa				
Filling pressure	0.3-0.35Mpa				
Rinsing media	Aseptic water				
Power supply	380V/50Hz				
Total power	3.2Kw	4.0Kw	4.2Kw	5.8Kw	
Dimension	2500*1500 *2500mm	2500*2000 *2500mm	3400*2600 *2800mm	3600*2800 *3000mm	
Weight	2500KG	3200KG	4500KG	5000Kg	

## 4.BOTTLING MACHINE PHOTO



## Conveyor

