

Automatic Filling and Capping Machine



The fully automatic water and emulsion filling and capping machine is an advanced piece of equipment designed for high-speed and efficient packaging of liquid products, particularly water and emulsion-type liquids like lotions and creams. This machine integrates filling, capping, and sometimes labeling processes into one streamlined operation, significantly enhancing production efficiency and consistency.

1. **System Overview**

- **All-in-One Design**: The machine combines the filling and capping processes into a single unit, minimizing the need for multiple machines and reducing the footprint required for production lines.
- **Automatic Operation**: Fully automated processes reduce the need for manual labor, enhance efficiency, and minimize human error in filling and capping operations.

2. **Filling Mechanism**

- **High Precision Filling**: Equipped with advanced filling technologies, such as volumetric or servo-driven piston fillers, the machine ensures accurate and consistent filling volumes for various liquid types.
- **Versatile Filling Options**: The machine can handle a wide range of liquids, including water, lotions, emulsions, and other low to medium viscosity products, adapting to different production requirements.
- **Adjustable Filling Speed**: The filling speed can be adjusted to accommodate different production rates and liquid properties, ensuring optimal performance without compromising quality.

3. **Capping Mechanism**

- **Automatic Capping**: The machine features an automated capping system that securely places and tightens caps on filled containers, ensuring consistent closure and preventing leaks.

- **Flexible Cap Types**: It can accommodate various cap types, including screw caps, flip tops, and pump dispensers, making it suitable for a diverse range of products.
- **Torque Control**: The capping mechanism is equipped with torque control settings to apply the right amount of pressure, ensuring caps are neither too loose nor too tight.

4. *Control System**

- **User-Friendly Interface**: The machine is controlled via an intuitive touchscreen interface that allows operators to easily set parameters, monitor production, and perform troubleshooting.
- **Programmable Settings**: Users can store multiple production settings for different products, facilitating quick changeovers and improving overall efficiency.

5. *Safety Features***

- **Safety Interlocks**: The machine is designed with safety interlocks that prevent operation if safety guards are not in place, protecting operators from potential hazards.
- **Emergency Stop Function**: An emergency stop button is accessible on the control panel, allowing for immediate cessation of operations in case of an emergency.

Parameter

Number of filling heads:	2
Filling range:	50-200ml
Filling speed:	1200-1800 bottles/hour
Measuring accuracy:	±0.5%
Power:	3KW
Voltage:	220V
Working air pressure:	0.6-0.7Mpa
Air consumption:	3-5m ³ /min
Machine size:	1500*1600*1900mm
Machine weight:	600kgs