

Automatic 6 Magnetic pump Liquid Filling Machine



The automatic magnetic pump liquid filling machine is an efficient and precise device designed for filling various liquids, particularly those that are corrosive, volatile, or sensitive to shear forces. Utilizing magnetic drive technology, this machine offers a reliable and hygienic solution suitable for a wide range of industries, including food and beverage, pharmaceuticals, chemicals, and cosmetics.

1. **Construction and Design**

- ****Durable Materials****: The machine is constructed with high-quality materials, featuring a 304 stainless steel pump head for durability and corrosion resistance. The components that come into contact with the liquid are made from silicone tubing, ensuring flexibility and compatibility with a variety of liquids.
- ****Magnetic Drive Pump****: The core of the system is a magnetic drive pump, which operates without mechanical seals. This design minimizes the risk of leaks and contamination while enhancing operational reliability.

2. **Functionality**

- ****Precise Filling Control****: The magnetic pump mechanism allows for smooth and accurate flow control, making it ideal for filling liquids of various viscosities. The machine can effectively handle both low and high viscosity products.
- ****Timer-Controlled Operation****: The filling process is controlled by a timer, allowing users to set specific filling durations for accurate dosing. This straightforward control mechanism simplifies operation without the need for complex programming.

3. **Performance Advantages**

- ****High Accuracy****: The machine provides exceptional accuracy in filling volumes, typically within $\pm 0.5\%$ to $\pm 1\%$. This level of precision is crucial for applications where exact dosing is necessary, such as in pharmaceuticals and food production.

- **Gentle Liquid Handling**: The magnetic drive system minimizes shear forces on sensitive liquids, making it suitable for products that may be affected by mechanical agitation, such as emulsions or foamy liquids.

4. **Maintenance and Cleaning**

- **Low Maintenance Needs**: The absence of mechanical seals and fewer moving parts means lower maintenance requirements. This design significantly reduces the likelihood of wear and tear, leading to longer operational life.

- **CIP Compatibility**: The machine is often compatible with Clean-In-Place (CIP) systems, enabling thorough cleaning without disassembly, which helps maintain high hygiene standards.

5. **Safety Features**

- **Leak-Proof Design**: The magnetic drive system inherently prevents leaks, significantly reducing the risk of spills and contamination, which is particularly important in sensitive production environments.

- **Overload Protection**: Many models are equipped with overload protection mechanisms to prevent damage to the pump and other components in the event of blockages or pressure fluctuations.

Parameter

Number of filling heads:	6
Filling range:	20-2000ml
Filling speed:	1400-2000 bottles/hour
Measuring accuracy:	±0.5%
Power:	1.5KW
Voltage:	220V
Working air pressure:	0.6-0.7Mpa
Air consumption:	1-2m³/min
Machine size:	2000*600*1700mm
Machine weight:	180kgs