

FP5300 Safety Cover High Speed Piston Pump Filling Machine



On the product lines where high efficiency and sanitation are a must, Piston Pump Filling Machine FP5300 establishes a new standard with its cutting-edge technology and extraordinary quality for food, beverage, and viscous liquid filling industries. FP5300 can not only fill various liquids accurately and quickly, including high mobility, high viscosity liquid, and liquid with small particles, but it is also the prime choice when it comes to filling highly viscous products.

Features

1. High sanitation specification: Full cover design, equipped with PVC cover. Meeting cGMP requirements and providing high sanitation standards.
2. Intelligent maneuver: Multiple memories function to simplify production settings.
3. Precise filling: Equipped with a counting function, the automatic detection system will stop the machine when there are no bottles.
4. Highly efficient production: Servo motor driven, with multiple cylinders filling at once to increase production efficiency.
5. Unique filling valve: Anti-drip design with ball valve check device to make sure filling liquid does not spill and ensure filling quality.
6. Intuitive human-machine interface: Intuitive HMI with comprehensible features, making maneuver methods easy to learn. Shortening employee training time.
7. Intelligent memory system: Multiple parameters storage memories, no need to reset or adjust the machine during production. Simplifying maneuver process and increasing production efficiency.
8. Production warning system: Equipped with refined sensor detection technology, the machine would not fill if there were no bottles. And can prevent bottle jams by pausing the machine automatically, ensuring the filling efficiency and stability.

9. Counting function: The filling machine can record the batch on the production line and the accuracy of the production line parameters.
10. Infeed and outfeed system: Automatic process, adjusting along with the conveyor to acquire more production flexibility.
11. High-end servo motor: Multiple filling gate filling at once to achieve high accuracy and rapid production.
12. Emergency stop button: Immediate reaction during the production process to ensure production safety.
13. Full-color touch screen and PLC control: Adjust the filling volume, speed, and interval time with ease.
14. Firm structure: Adopting SUS316 or 316L stainless steel that is corrosion resistant and firm, all meet cGMP manufacture requirements.
15. Detachable and washable parts: The parts that come into contact with liquid such as hopper, suction tube, filling heads, and filling cylinders can all be disassembled and washed with ease, meeting the sanitation standards of food processing industries.
16. Waterproof materials made machine: Machines were made from waterproof materials to protect precision electronics from being damaged when washing the machine, ensuring the durability of the machine.
17. User-friendly design: Machines are equipped with rulers and marked with arrow labels that indicate the direction so the users can adjust the positions of bottles, filling heads, and cylinders to minimize the collision or damage of bottles.
18. Optional transparent PVC infeed tube: Understand production status with a single glance, enhancing the transparency and controllability during the production process.
19. Cylinder gate spacer system: Adopting advanced cylinder gate technology to control the infeed and outfeed of bottles with precision. Guarantees the smoothness of the production process and prevents the bottles from jamming.
20. Predictive maintenance function: Predictive maintenance capability. Quick troubleshooting through multiple alarm pages and detailed explanations to significantly reduce out-of-service time.
21. Emergency stop mechanism: HMI and the conveyor each has an emergency stop button beside them, raising the safety and security during the production process.
22. Integrated packaging line: The machine can be integrated with other packaging devices such as bottle unscramblers, capping machines, labeling machines, metal detectors, etc., to build automatic production lines.
23. Full-color touch screen integrated with intelligent PLC control program, making monitoring devices easy during production.

Specification

- Filling Head Number : 6 Filling Heads
- Filling Method : Piston Pump Filling Cylinders
- Degree of Automation : Fully Automatic
- Filling Speed : 15-40 bottles/min (The speed depends on liquid characteristics and bottle volume)
- Filling Accuracy : $\pm 0.5-1\%$
- Filling Range : 50-4000 ml (Customizable)
- Suitable Liquid : Cream/Sauce/Honey/ Shower Gel /Shampoo
- Liquid Container Specification : 100-200 L (Customizable)
- Power Supply Requirements : 110 or 220VAC, 50/60Hz, Single Phase
- Machine Dimension : (L)3000mm (W)1800mm (H)2000mm