

Full Automatic Liquid Filling Machine



Feature:

Automatic self-streaming filling machine is suitable for pharmaceutical, foodstuff, also for industries easy foamed of liquid filling, meanwhile, applies to afford foam liquid. It can use single, also can use links with other equipment, is the present domestic most ideal deforming filling machine.

- Man-machine Chinese interface, intelligent contact screen, human design, easy operation.
- Special overflow filling nozzles, accuracy level filling.
- Program logic controller (PLC), easy for changing size or modifying parameters.
- Pneumatic elements are all imported, stability and reliability.
- Photo-electric sensing and pneumatic linking control, automatic protection for shortage of bottle.
- Close positioning design, easy governing, suitable for packing of all sizes of bottles.
- The whole machine is designed according to requirements of GMP.

Product process:

The machine uses electric control cylinder for filling power, filling the container to the left side of the conveyor belt in the conveyor chain plate under the force to the specified position, the positioning cylinder positioning, lifting cylinder down, filling mouth sneak and fill, irrigation Loading and filling time are arranged in an orderly manner, after a certain delay after the lift cylinder up, positioning cylinder reset, with a quantitative liquid container transported to the right to complete a work cycle.

Main working principle and structure

Transport system:

The system consists of motor, chain plate, pad, sprocket and other components, sprocket wheel made of hard nylon, with reasonable structure, light weight and durable performance, the overall

structure of 1.5 mm thick "304" made of stainless steel, Beautiful appearance, smooth lines and beautiful, easy maintenance and save time.

Filling system:

The working principle of the automatic inline filling machine is to complete the filling process by moving the piston in the cylinder back and forth through the front and back movement of the cylinder. When the cylinder moves backward, pulling the piston backward, the discharge check valve is closed, the feed check valve is opened, and the front chamber of the material cylinder generates negative pressure. The material in the feeding barrel is pressed into the feeding pipe by the atmospheric pressure, and enters the cylinder body through a feeding check valve and a three pipe, so as to complete the suction work. When the cylinder moves forward, push the piston forward, the feed check valve closes, the discharge check valve opens, and the piston squeezes the material. The material enters the delivery pipe through the discharge check valve in the discharge joint, and finally enters the empty bottle to be filled through the filling head to complete the filling operation. Piston filling machine for each filling is a mechanical, simple, simple action, so for each regular container has a very high filling accuracy and stability.

Technical parameters:

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| Filling arrange: | 100-1000 ml |
| Speed: | 25-40 bottles/min (Timing control filling volume and speed) |
| Filling volume of the largest error: | ≤5‰ |
| Compressed air consumption: | 50 L/min |
| Air pressure range: | 0.4~0.6 MPa |
| Power consumption: | 1.5 kw |
| Power supply: | 220V±5% 50/60 Hz |