



Large Volume Glass bottle IV Infusion Production Line



Glass bottle IV solution production line is a high-tech equipment that can automatically complete the processes of glass bottle cleaning, filling, stoppering, capping etc. for IV solution of 50ml-500ml. It is suitable for the production of various kinds of liquids, such as glucose, antibiotic, amino acid, fat emulsion, nutrient solution and biological agents etc.

The production line adopts advanced technology, simple and reasonable structure, reliable and stable performance, easy maintenance and repair. It uses frequency conversion speed regulation, ultrasonic bottle washing, self-flow constant speed filling, pressure stoppering, flip stoppering, cap arranging, cap pressing, cap rolling etc. The production line has high production efficiency, accurate measurement, no mechanical friction, no particle generation, and meets the GMP requirements.

The production line can be customized according to the customer's needs and specifications. It can also be arranged in a curved way according to the site conditions. The production line is widely used in pharmaceutical, biotechnology, health care and other industries, and has been well received by customers at home and abroad.

Product Features

- New design for washing machine, rough cleaning adopts the same direction for bottle input and output, saving operators and machine space.
- Bottle output from rough and fine washing machine adopts twice bottle receiving, avoiding bottle reversal and broken.

- Bottle washing machine uses intermittent rinsing, avoiding cross contamination caused by continuous rinsing.
- Bottle input adopts the combination of bottle hook and guide plate, making the bottle input reliable and no bottle reversal.
- Washing water can be recycled and filtered, reduce water consumption
- Customization filling method for different products, like Peristaltic Pump, Ceramic Pump, Stainless Steel Pump can optional.
- During filling process, no mandatory friction of mechanical parts, not produce particulate pollution, compliant with GMP requirements.
- Adopts the quick equipped filling head design, the filling heads is easy in disassembly and assembly (Only need to loose the two M6 bolts)
- It can realize CIP/SIP on line.
- Easy operation, a ll settings can be set directly from Man-machine interface. Electronic control system adopts advanced PLC technology and microcomputer tuner to adjust speed. Start and stop smoothly, easy for changing specification parts.
- By vacuum stoppering and mechanical positioning, only when the stoppers is in the accurate place it can go to the stoppering station, high qualified rate.
- There is nitrogen protection in the delivering dial wheel between the wheel of the nitrogen filling and the wheel of the stoppering station. The nitrogen filling adopts the insert bottle filling methods; maximum ensures residual oxygen of the nitrogen filling products.
- Low residual oxygen after vacuuming and stoppering. (ensures less than 0.6%).

Technical Specifications

Main Items	Main Contents			
Model	BPY50/500-120	BPY50/500-200	BPY50/500-300	BPY50/500-600
Applied Bottle Size	50ml, 100ml, 250ml, 500ml			
Production Capacity	80-120 Bottle/min	120-200 Bottle/min	200-300 Bottle/min	300-600 Bottle/min
Electric Capacity	35KW	37KW	45KW	55KW
Compressed Air Consumption	4 ³ /h (0.6MPa)	5 ³ /h (0.6MPa)	6 ³ /h (0.6MPa)	7 ³ /h (0.6MPa)
Water Consumption	Tap water: 200ml/bottle Purified water: 80ml/bottle			
	Injection water: 120ml/bottle 0.2MPa			
Overall Size(mm)	17800×6000×2300	19000×6000×2300	24000×7000×2300	24000×7000×2300