



## ***SHH-GFS Automatic Glass Bottle IV Solution Filling Capping Production Line***



Glass bottle IV solution production line is mainly used for IV solution glass bottle of 50-500ml washing, depyrogenation, filling and stoppering, capping. It can be used for the production of glucose, antibiotic, amino acid, fat emulsion, nutrient solution and biological agents and other liquid etc.

### **Product Process**

#### **Step 1**

##### **Washing machine:**

This machine is used for the fine washing for infusion glass bottle, take turns to use the normal water, purified water, injection water, clean compressed air, fresh injection water and clean compressed air to washing the bottle in turns.

#### **Step 2**

##### **Filling, Vacuuming, Nitrogen Charging, Stoppering Machine**

Filling part adopts valve filling, high precision in Germany.

Nitrogen charging immediately after filling, also nitrogen protection between the nitrogen charging and stoppering.

No bottles no filling, no bottles no vacuuming, no bottle no nitrogen charging, ensure the vacuum level in the air tank during

vacuuming, meanwhile, make sure the oxygen residual after stoppering (control within 1.0%).

### Step 3

#### Filling and Stoppering Machine

Aseptic liquid filling machine is very accurate and stable operation. The filling volume can be directly adjusted through HMI, here we have ORABS equipped with stainless steel laminar air flow hood.

### Step 4

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#### Our Advantages

1. Separate pipeline for cleaning medium, no cross-contamination, according to GMP requirements.
2. Filling head synchronously tracks filling, high filling accuracy.
3. Adopt full servo drive system, no mechanical transmission.
4. Nitrogen charging function can be configured (before filling, during filling, after filling).
5. Quick changeover time for different bottle size.

#### Product Parameters:

		SHH-GFS16/10	SHH-GFS24/10
Production capacity		60-100BPM	100-150BPM
Applied bottle size		50ml, 100ml, 250ml, 500ml	
Filling accuracy		+1.5%	
Compressed air (m3/h)	0.6Mpa	1.5	3
Power supply	kw	4	4
Weight	T	7.5	11
Machine size	(LxWxH)	2500*1250*2350	2500*1520*2350
	(MM)		

		SHH-GFS36/20	SHH-GFS48/20
Production capacity		150-300BPM	300-400BPM
Applied bottle size		50ml, 100ml, 250ml, 500ml	
Filling accuracy		+1.5%	
Compressed air (m3/h)	0.6Mpa	4	4.5
Power supply	kw	6	6
Weight	T	13.5	14
Machine size	(LxWxH)	3150*1900*2350	3500*2350*2350
	(MM)		