

## GZF450-2 Double Head

## Powder Filling And Capping Machine

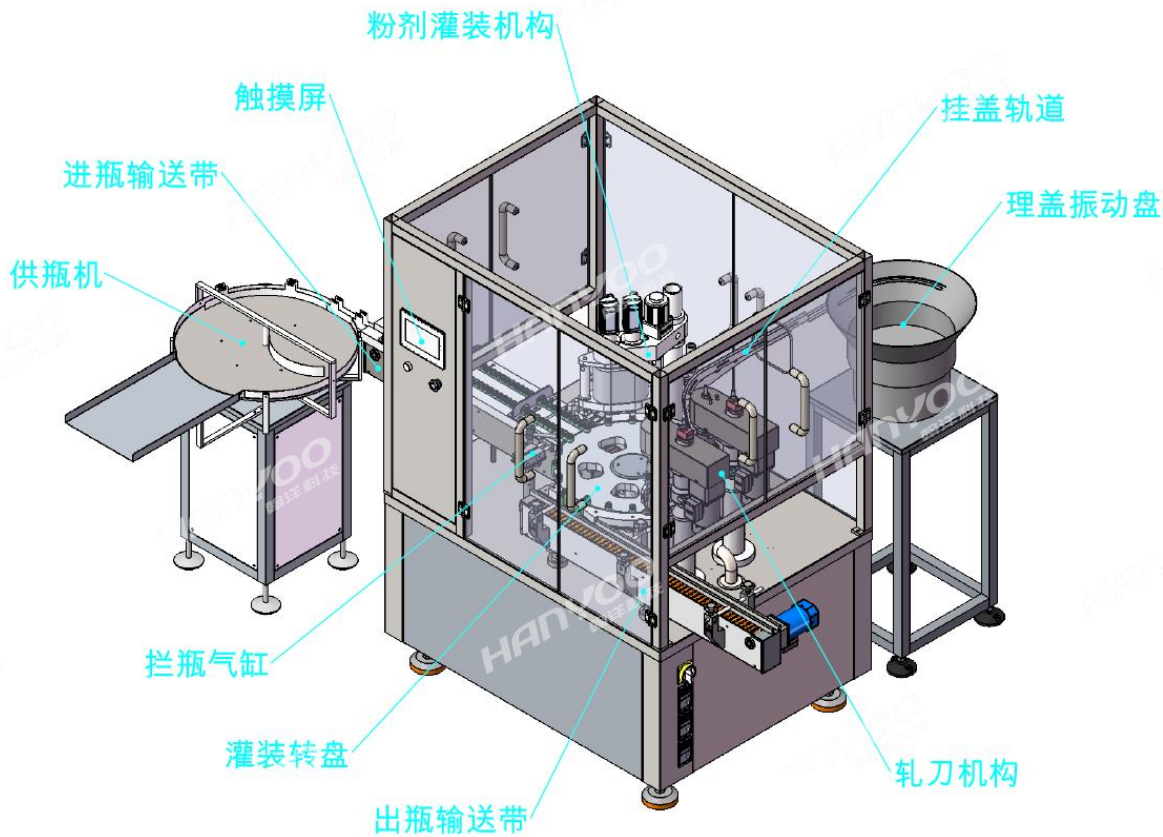


## TECHNICAL PARAMETER

**南京翰洋智能设备有限公司**  
NANJING HANYOO PHARMATECH CO., LTD.



# GZF450-2 Double Head Powder Filling And Capping Machine



## PURPOSE AND INTRODUCTION

This machine is a professional filling, capping, and rolling capping machine for small dose powders independently developed by our company based on the introduction and absorption of advanced foreign technology. This machine adopts a high-precision enclosed cam indexing station, which has high precision, reliable operation, and long service life. The divider has a simple structure and does not require maintenance for long-term use.

This machine is mainly suitable for filling, capping, and rolling caps of various low-dose powders. Widely used in the food, pharmaceutical, chemical industries and scientific research fields. This machine can be used for standalone production, as well as in conjunction with equipment such as bottle washing machines and dryers to form a linked production line. Fully comply with national GMP requirements. This machine can upgrade its electrical configuration according to customer requirements.

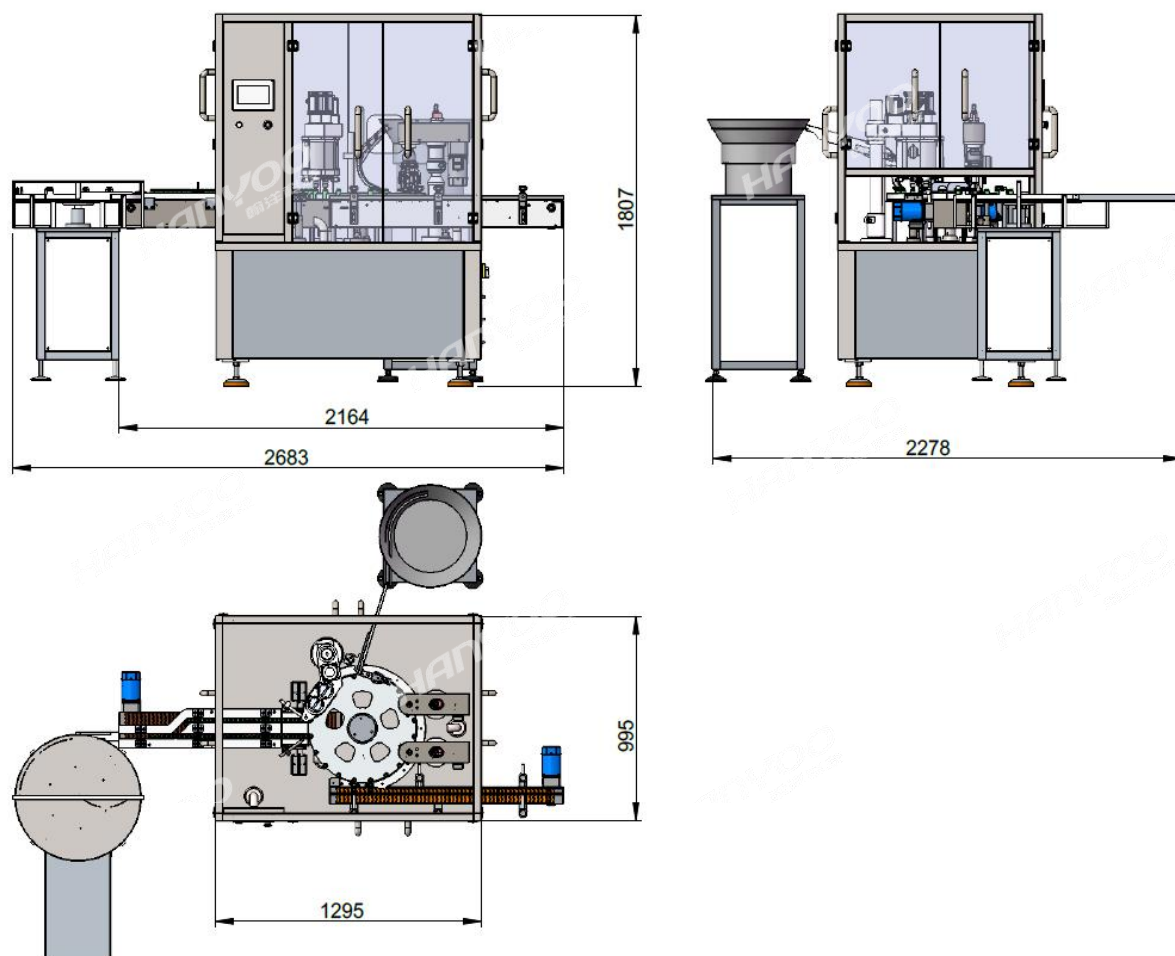
## MACHINE FEATURES

- Human machine interface setting, intuitive and convenient operation, PLC control, precise loading.
- Variable frequency control, adjustable production speed, and automatic counting.
- Automatic shutdown function, no filling without bottles.
- Disc positioning filling, stable and reliable.
- High precision cam indexing control, precise positioning.
- Made of SUS304 and 316L stainless steel, fully compliant with GMP requirements.

## ACTION PROCESS

1. Arrange the bottles into the bottle feeding machine.
2. Pour the outer cover into the vibrating disc and wait for further instructions.
3. Turn on the bottle feeder, rotate it, and arrange the bottles neatly into the conveyor belt of the filling machine.
4. Click the start button on the touch screen, and the conveyor belt will transport the bottles to the bottle blocking cylinder. After the photoelectric detection of the bottles, the bottle blocking cylinder will open and the bottles will enter the turntable.
5. When the bottle moves through the powder filling station with the main turntable, the photoelectric sensor detects the bottle, and the filling screw works to fill a certain amount of powder into the bottle. If no bottle is detected, the filling action will not be carried out.
6. After filling, the turntable drives the bottle to pass through the cap hanging track and hang the outer cap onto the bottle mouth.
7. When the bottle passes through the capping station with the main turntable, the capping mechanism moves up and down, and the capping motor moves to drive the rolling knife to cooperate with the up and down movement, completing the aluminum cap closing.

## DIMENSIONAL SCHEMATIC DIAGRAM



## TECHNICAL PARAMETER

MODEL	GZF450-2
Filling volume (g)	0.1-25g
Filling Precision	±1-3%
Number of screws	2
Production capacity (bottles/min)	60-80
Dimensions (mm)	(Reference above)
Weight (Kg)	500kg
Power Supply	220V / 50HZ / 5A
Outer cover vibration disc	SUS 304
Qualified rate of capping	≥99.9%

## MAIN CONFIGURATION LIST

NO.	NAME	BRANE	QTY
1	Outer cover vibration disc	customized	1
2	Filling turntable	customized	1
3	Filling screw	customized	2
4	touch screen	Xinjie	1
5	PLC	Xinjie	1
6	Mixing motor	Xinjie	1
7	Switching Mode Power Supply	chint	1
8	Button	chint	1
9	relay	Omron	8
10	Main motor	(Domestic)	1
11	Conveyor motor	Zhongshan University	2
12	Optical amplifier	Alto Knicks	2
13	Splitter	Zhucheng, Shandong	1
14	Capping motor	Zhongshan University	2



# **HANYOO**

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