

**GL-55 High Speed**

**Automatic Capsule Filling Machine**



**EQUIPMENT  
TECHNICAL DOCUMENTS**

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





we are a national high-tech enterprise that integrates research and development, production, sales and service. We specialize in providing first-class packaging equipment solutions for food, pharmaceutical, daily chemical, electronic and other enterprises, with 20 years of experience in automation research and development production technology. The company's factory is located in Gaochun District, Nanjing City, covering an area of over 12000 square meters. The company's main products include tablet presses, capsule filling machines, blister packaging machines, counting and bottling production lines, mixers, granulators, box packing machines, and other products. Having dozens of invention and utility model patents, the company was recognized as a technology-based small and medium-sized enterprise. Some of its products have passed the CE certification of the European Union and obtained self-operated import and export rights. Our company's products have been sold to more than 30 provinces, cities, and municipalities across the country, and have been exported to over 100 countries worldwide, including the United States, Canada, Russia, the United Kingdom, Germany, Spain, Malaysia, Indonesia, Thailand, India, Brazil, etc. We have gained a good reputation and credibility in both domestic and international markets.



## CUSTOMER CASE



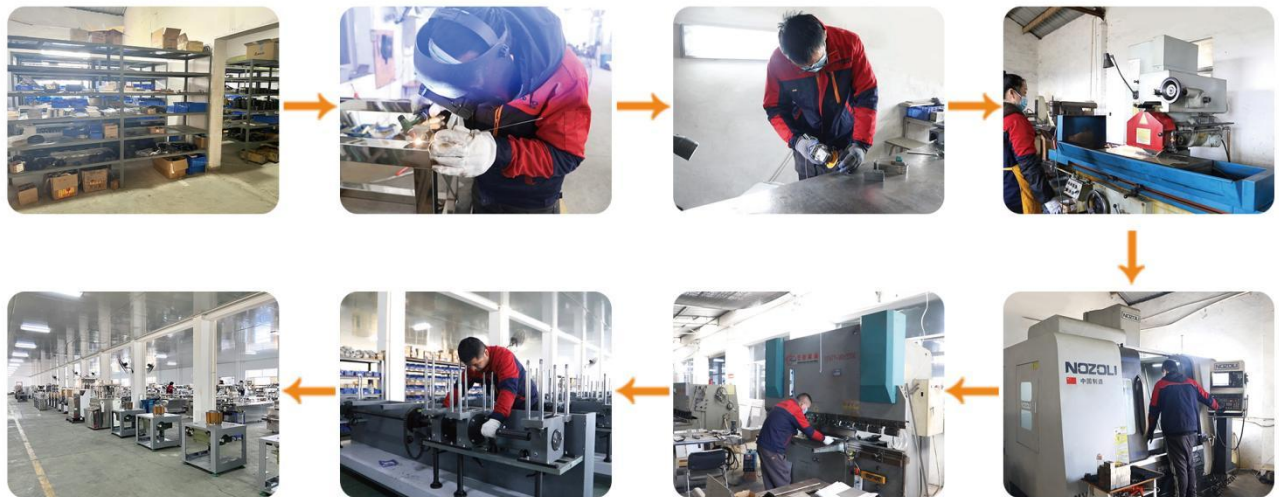


# EXHIBITION & CLIENT

WELCOME TO VISIT US



## WORKFLOW



## WORK SHOP & SHOW ROOM

MODEL COMPLETE





## GL-55 High Speed Automatic Capsule Filling Machine

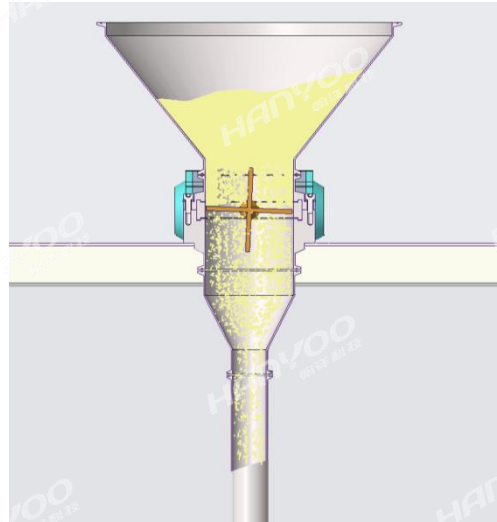


### MACHINE INTRODUCTION

GL series automatic capsule filling machine is a new product specially improved by our company according to the market experience. The whole machine adopts arc design, the equipment flow line is smooth and the appearance is atmospheric. The equipment adopts PLC programming, man-machine interface operation, touch screen display. Automatic alarm display for running faults or lack of materials, automatic shutdown, and automatic elimination of alarms after troubleshooting. The machine also has the functions of password input, parameter setting, data printing, zero clearing and so on. All the main key parts of the machine such as transmission shaft, CAM, bearing are imported materials, reliable quality, is the first choice for filling capsule drugs ideal equipment, and fully comply with GMP requirements.

## MACHINE DETAILS

### New material hopper



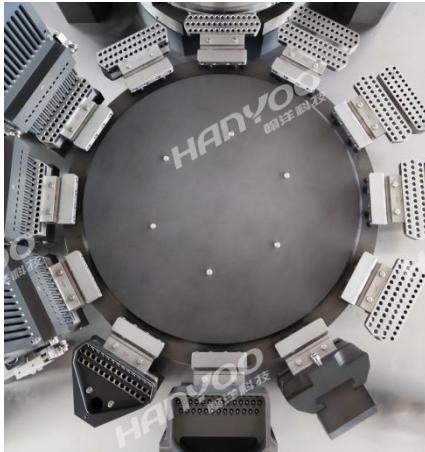
It adopts the disc valve feeding method and is equipped with a vibration device. It solves the problem that the traditional screw feeding device has no fluidity and often fails to feed powders with poor fluidity such as Chinese herbal medicines and proprietary Chinese medicines. Easy to disassemble, easy to replace and clean.

### Sowing Rack



Driven by guide rail, it has high precision and long service life. The closed design effectively prevents waste capsules and dust from entering. Good stability, orderly seeding, and accurate direction adjustment.

### New turntable



The frame of the 12-station turntable adopts one-piece processing, which has a compact structure and no splicing gaps, and has good sealing and easy disassembly; the upper and lower modules move independently, and the shaft seal of the fixed bracket adopts a double-lip skeleton dust-proof ring to achieve No noise, small size, small load, high precision. The interior of the fully enclosed rotary table is free of maintenance, oil, maintenance and powder for three years.

### Filling combination



Modular design is adopted, and the pin-type positioning of the filling holder is used. During production, there is no need to stop the machine to adjust the filling capacity, and it is convenient to replace different filling rods.

### Filling base



The filling base adopts a negative pressure design, which can suck the powder in the hole of the base through negative pressure when the equipment is running, and recycle it into the powder collector. Effectively avoid the waste and loss of the powder, and realize the secondary use of the powder.



### New capsule release mechanism



The new-type finished capsule discharge mechanism exclusively adopts the capsule plate design, no external air source is required when the finished capsules are discharged, and there is no dust flying during the production process. , strong permanent usability, less wear and tear.

### Capsule lock mechanism



The slot-type lock capsule plate has flexible adjustability and can be fine-tuned at any time without adjusting the station pull rod.

### New suction seat



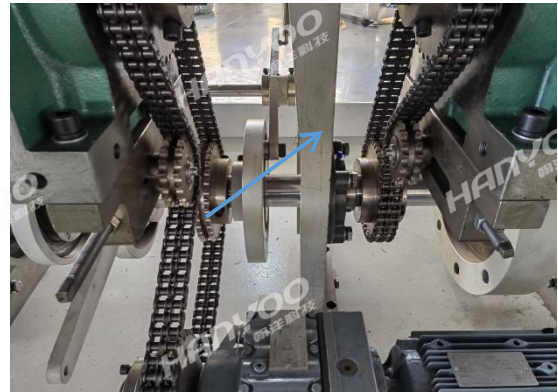
A soft sealing column is installed on the original suction seat, and the balance between the lower mold and the suction seat is automatically adjusted by the soft sealing column during the production process to prevent vacuum leakage and increase the rate of capsule separation.

### Clean die hole device



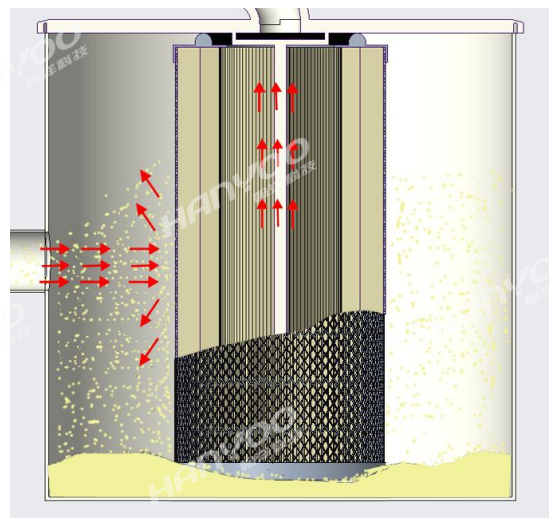
Purified compressed air and intermittent gas impingement technology are adopted. It solves the problem of powder sticking to the mold and improves the probability of capsule loading.

### New transmission system



Adopt the latest cam bottom transmission system, the transmission bracket runs through the top and bottom of the design, all the running cams use inner groove cams instead of honest outer cams, and the high-speed operation achieves precision, accuracy, stability and no noise.

### Powder Recycler



Negative pressure technology is adopted, and it is equipped with an independent distribution system for powder, which can accurately recover powder and avoid crossover Pollution, the recovered powder can be directly produced again, which is convenient and efficient.



## TECHNICAL PARAMETERS

MODEL	GL-55
Maximum yield	456000 grains/hour
power supply	380/220V 50Hz
total power	13kw
Number of holes	55 holes
Vacuum	120m <sup>3</sup> /h -0.04 ~ -0.08MPa
vacuuming	24.5Kpa 210m <sup>3</sup> /h
compressed air	Air consumption 12m <sup>3</sup> /h Pressure 0.3 ~ 0.4MPa
working noise	≤78dBA
Working temperature	21°C±3°C
working relative humidity	40-55%
Capsule on chance	Empty capsule ≥ 99.9% Full capsule ≥ 99.8%
Adapt Capsules	00#-5# capsule
Loading accuracy	Western medicine ±3% Traditional Chinese medicine ±4%
Adapt to the filling range	Powder, Granule, Pellet, Tablet
special function	Powder collector function
machine weight	35 00 kg
Machine volume	1880×1390×2400mm (height with automatic powder feeder: 2910mm)

## ELECTRONIC PART LIST

NO.	NAME	SPECIFICATIONS	QTY	MANUFACTURER
1	touch screen	SMART 1000IE V4	1	Siemens
2	PLC programmable controller	SIMATIC S7-200	1	Siemens
3	AC contactor	3T S3300-ON2	3	Siemens
4	frequency converter	ACS180-04N-17A0-4 (3P 380V) ACS180-04N-12A2-1(3P 220V)	1	ABB Switzerland
5	thermal overload relay	3US5040-2A (3P 380V) 3US5040-2C (3P 220V)	3	Siemens
6	button	ZB2-BS54C-BA3C-BA5C-BA4C	4	French Schneider
7	main motor	R77-RDRS112M4BE5	1	German SEW
8	relay	RXN2L B2BD	9	French Schneider
9	switching power supply	LRS-150-24	1	Taiwan Ming wei
10	air switch	5SW6352-7CN-3P63 1P10	2	Siemens
11	High precision cam indexing box	180F12-150-R1-S2-V-2P 180F06-120-R1-S1-V-2P	2	Taiwan rice gold
12	dry vacuum pump	KVT3-140	1	german baker
13	Vacuum cleaner	XLJ-400	1	The company produces
15	Linear Bearings	LM12UU	82	SAMICKKorea
16	Linear Bearings	LM20UU	48	SAMICKKorea
17	Linear Bearings	LM30UU	22	SAMICKKorea
18	Plastic Engineering Bearings	LIN-01-16	20	igus germany
19	Needle Roller Bearings	CF12B	1	Japan
20	Needle Roller Bearings	CF16B	8	Japan
21	Deep Groove Ball Bearings	6200	12	NSK Japan
22	door control system	10-36VDC	8	Zhejiang military industry



The banner features a dark blue background with several white line-art icons related to medicine and healthcare. These include a blister pack of pills, a medicine bottle with a cross, a pill being poured from a container, two pills, a syringe, and another blister pack.

# **HANYOO**

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