

# GL-3 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



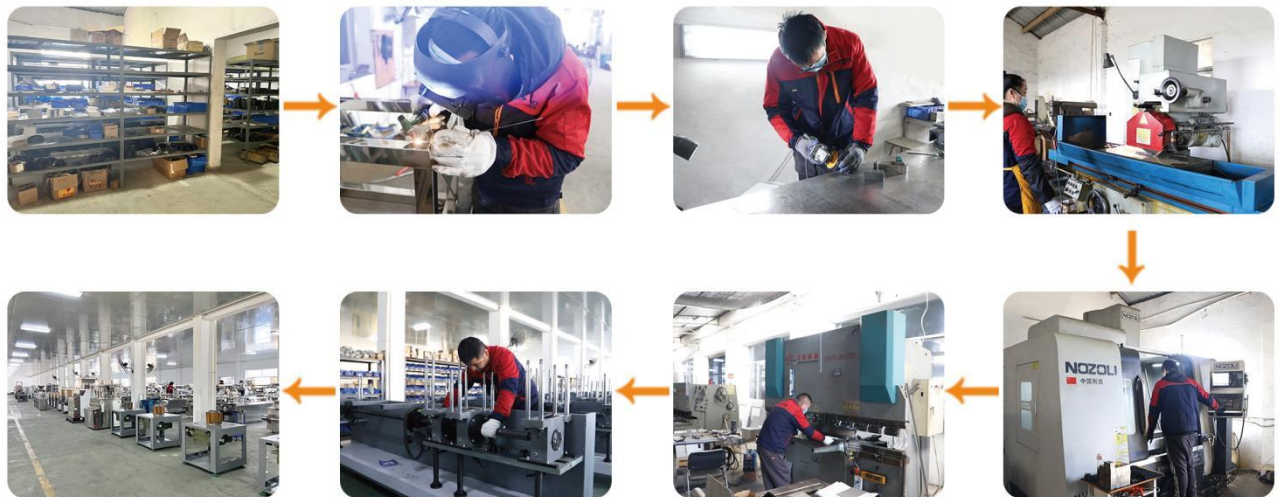


# EXHIBITION & CLIENT

WELCOME TO VISIT US



## WORKFLOW



## WORK SHOP & SHOW ROOM

MODEL COMPLETE





# GL-3 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 FEATURES

1. The equipment adopts internal CAM drive, reduces the center of gravity of the equipment, stable high-speed operation state, adopts Ferguson drive, small vibration, high-speed operation noise is less than 75dB, the dose difference is controlled within 3%-5% (depending on the powder situation);
2. The rotating part is completely closed, automatic lubrication system can be added, and the working table is free of oil, avoiding cross-contamination with drugs;
3. The gap between the dose plate and the copper plate has a special adjustment device, which does not need to be measured with a feeler, and the adjustment is quick and easy.
4. GL series automatic capsule filling machine adopts German Siemens man-machine interface, PLC programmable controller, liquid crystal display output per minute, cumulative output, empty capsules and powder status, lack of capsule alarm and powder is not enough automatic shutdown, fault diagnosis tips.
5. The equipment mold installation has pin holes, mold correction is quick and easy.
6. Adopts double release sac structure, stable release sac under fast running state, in line with GMP requirements.
7. The equipment adopts mold brush cleaning and dust suction device to improve the probability of capsule loading, and the probability of capsule loading can reach 99.99%.

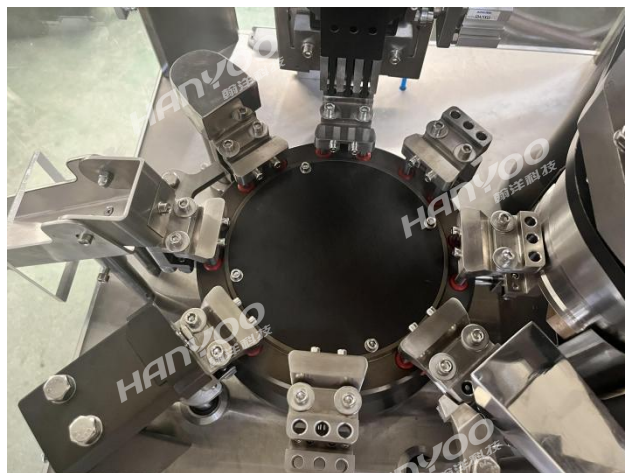
## TECHNICAL PARAMETERS

| Model                                       | GL-3                                 |
|---------------------------------------------|--------------------------------------|
| Motor Power                                 | 3kw                                  |
| Power Supply                                | Customizable                         |
| Maximum Production Capacity                 | 24,000 pcs/h                         |
| Filling Capsule Model                       | #000- #5                             |
| Weight                                      | 850kg                                |
| Size                                        | 810×700×1840mm                       |
| Capsule Loading Rate                        | 99.99%                               |
| Noise                                       | ≤75 dB                               |
| Content Uniformity                          | 3%-5%                                |
| Compressed Air                              | 0.4Mpa                               |
| Water Source Requirements                   | running water                        |
| Vacuum Degree                               | 63m <sup>3</sup> /h -0.04 ~ -0.08MPa |
| Discharge                                   | 200L/h                               |
| Inner Diameter Of Inlet Pipe                | 12mm                                 |
| Inner Diameter Of Drainage Pipe             | 20mm                                 |
| Ambient Temperature                         | 21°C±3°C                             |
| Requirements For The Height Of The Workshop | 2m                                   |
| Relative Humidity Of Working Environment    | 40-55%                               |
| Displacement                                | 300 m <sup>3</sup> /h                |
| Adapt to the filling range                  | Powder, granule, pellet, tablet      |

## MACHINE INTRODUCTION



**GMP/FDA Standarded**



**Powder contact part: SUS304(SS316 optional)**



**Full closed capsule loading system, easy cleaning**



**New filling station, stable & accurate filling,  
rate over than 97% (Adapt filling most type of powder)**



**Brush cleaning with dust collector,  
more stable capsule loading**



**All electronic parts adopted international brand**



## ELECTRONIC PART LIST

| NO. | NAME                  | MODEL                       | BRAND           | QTY |
|-----|-----------------------|-----------------------------|-----------------|-----|
| 1   | Touch Screen          | DOP-107BV                   | Delta           | 1   |
| 2   | Frequency Changer     | VFD4A2MS43ANSAA             | Delta           | 1   |
| 3   | PLC                   | DVP-24EC00R3                | Delta           | 1   |
| 4   | Main Motor            | CH32-1500-10S               | Taibang         | 1   |
| 5   | Index Box             | RU83DS-06-120-2R-S2-V-PPP-X | Numerous forces | 1   |
| 6   | Index Box             | DS83-10-150-2R              | Numerous forces | 1   |
| 7   | Vacuum Pump           | SK-0.5A                     | Jade ring       | 1   |
| 8   | Charging Machine      | WPWDX-40-20-A               | Youman          | 1   |
| 9   | Reduction Gear        | Y2-4-0.18KW-B5              | Youman          | 1   |
| 10  | Proximity Switch      | TL-Q5MC1-Z                  | Ottonicus       | 4   |
| 11  | Proximity Switch      | E2E-X5ME-5                  | Ottonicus       | 1   |
| 12  | Proximity Switch      | E3F3-D12                    | Ottonicus       | 1   |
| 13  | Material Level Device | TSA-30M-25NB                | Open source     | 1   |
| 14  | Air Switch            | OSMC32N3C32A                | Schneider       | 1   |
| 15  | Air Switch            | OSMC32N3C10A                | Schneider       | 1   |
| 16  | Air Switch            | OSMC32N1C2A                 | Schneider       | 1   |
| 17  | Thermal Relay         | LRD05C                      | Schneider       | 2   |
| 18  | Thermal Relay         | LRD10C                      | Schneider       | 1   |
| 19  | Contactor             | LC1D32M7C                   | Schneider       | 1   |
| 20  | Contactor             | LD1D09M7C                   | Schneider       | 1   |
| 21  | Contactor             | LC1D18M7C                   | Schneider       | 1   |
| 22  | Push Button Switch    | ZB2-BS54C                   | Schneider       | 2   |
| 23  | Scram Switch          | ZB-BA5C                     | Schneider       | 1   |
| 24  | Bearing               | /                           | IKO             | 90  |
| 25  | Dust Collector        | XCQ-1.2                     | HANYOO          | 1   |



A dark blue horizontal banner featuring several white line-art icons related to medicine and healthcare. These include a blister pack of pills, a medicine bottle with a cross, two crossed capsules, a pillbox, two pills, a syringe, and another blister pack.

# **HANYOO**

**翰洋科技**

Add:No.380 Sanqiaogeng,Gaochun District,Nanjing,China

Tel:+86-025-5621 6295

[Http://www.hanyoopm.com](http://www.hanyoopm.com)