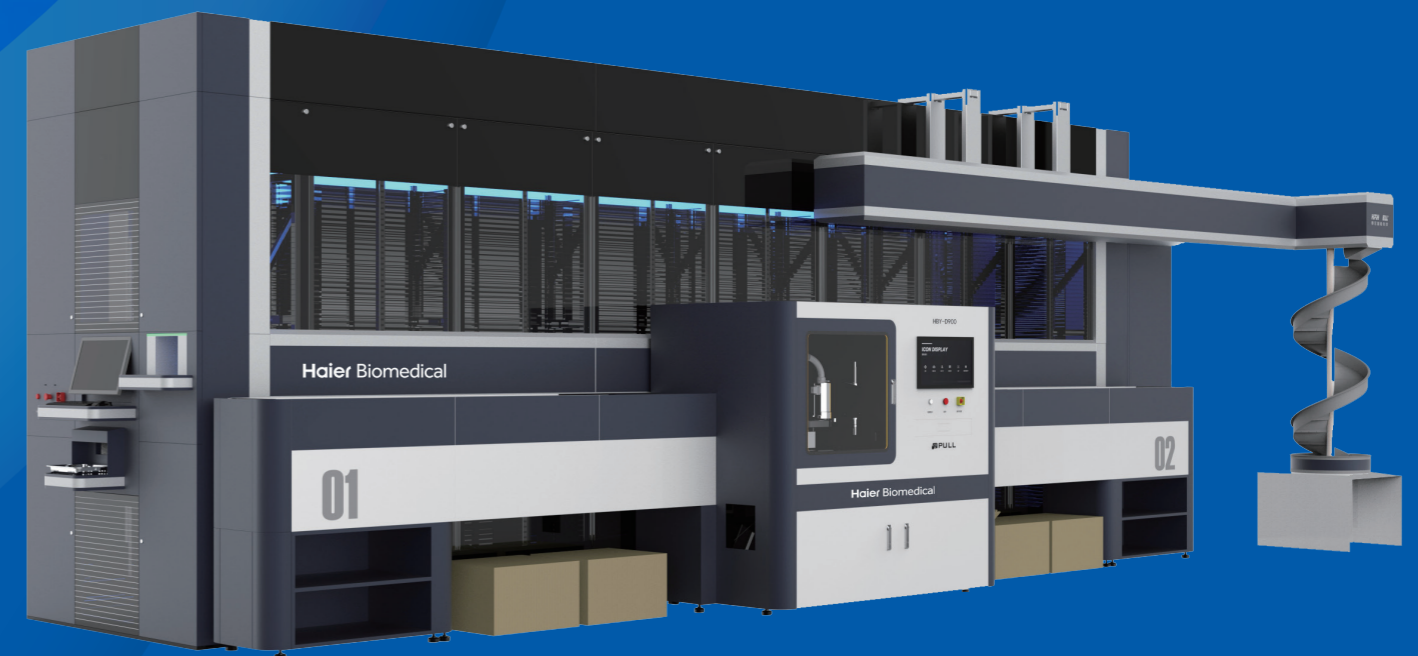


# Intelligent Outpatient Pharmacy System

Your Haier Biomedical Partner



**Qingdao Haier Biomedical Co., Ltd.**

No.280 Feng Yuan Road, High-tech Zone,  
Qingdao, 266111, P.R. China  
E-mail: [inquiry@haierbiomedical.com](mailto:inquiry@haierbiomedical.com)  
Website: [www.haiermedical.com](http://www.haiermedical.com)  
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Note: If a slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation of this brochure, please contact us for any further information if required.

# INTELLIGENT OUTPATIENT PHARMACY SYSTEM

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## System Introduction



### User Friendly Environment

By virtue of various transmission methods, the system effectively reduces workload, improves personal efficiency, and reduces patient waiting times, thereby making the pharmacy more professional and orderly.



### System Advantages

The smart system provides effective solutions for high-frequency and large-batch access of medicines, improves the automation level, and reduces the frequency of medicine loading and access to the medicines.



### System Management

The medicine buffering system, together with the rapid dispensing system, intelligent access system, intelligent pharmacy shelf, structured medical order system, and queue management system, forms an integrated intelligent pharmacy management system.



#### ① Automated Medicine Secondary Buffering Area

Based on the dual-manipulator access system, the medicines are automatically stored in the automated secondary storeroom, and depending on the medicine consumption, the storeroom will automatically generate medicine requests to transmit the information concerning the medicines that need to be replenished.

#### ③ Mixed Prescription Area

It is used to make up the mixed prescriptions of special-type packaged medicines or injections. After collecting and checking the medicines, it will send them to the front desk of dispensing through the medicine basket transmission system.

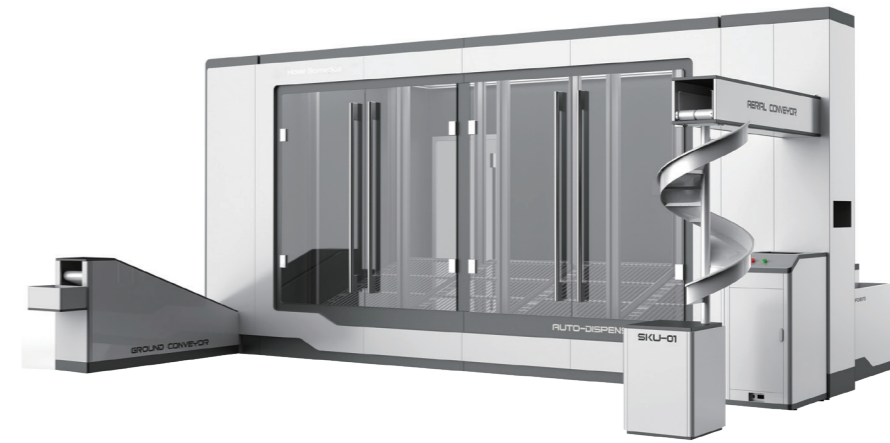
#### ② Automatic Dispensing Area

Boxed medicines are directly sent to the front desk through the overhead transmission system, and prescription medicines will be automatically delivered to the pharmacists in intelligent medicine baskets through the transmission system after the overall dispensing is completed, so the dispensing personnel remain in one location, with no need to manually collect the medicine as they are delivered directly to the personal workstation.

#### ④ High-speed Dispensing Area

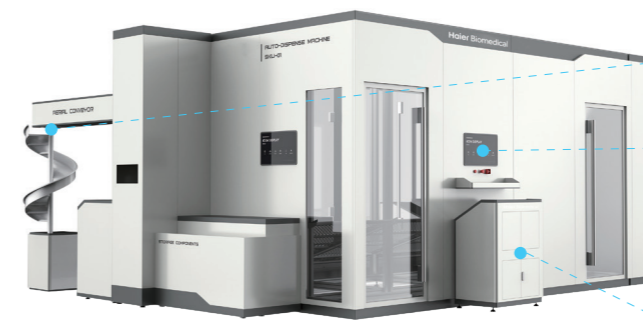
As an exclusive dispensing system for the delivery of large quantities of medicines, it features efficient storage for such medicines and can dispense at a rate of more than 4 boxes per second in every single slot.

## Automated Boxed Dispensing Machine



- Medicine uploading: Based on the dual-manipulator medicine loading (uploading speed:  $\geq 2500$  boxes/hour) and the rear-mounted batch medicine loading buffering mechanism, medicine dispensing and replenishing can be performed simultaneously.
- Inventory counting: Unattended, quick, and accurate inventory counting
- Storage capacity:  $\geq 20000$  boxes of medicines
- Speed: 450~550 prescriptions/h
- Convenience: Both the width and interlayer spacing of the medicine storage tracks can be adjusted as needed to improve the space utilization rate.

## Product Parts



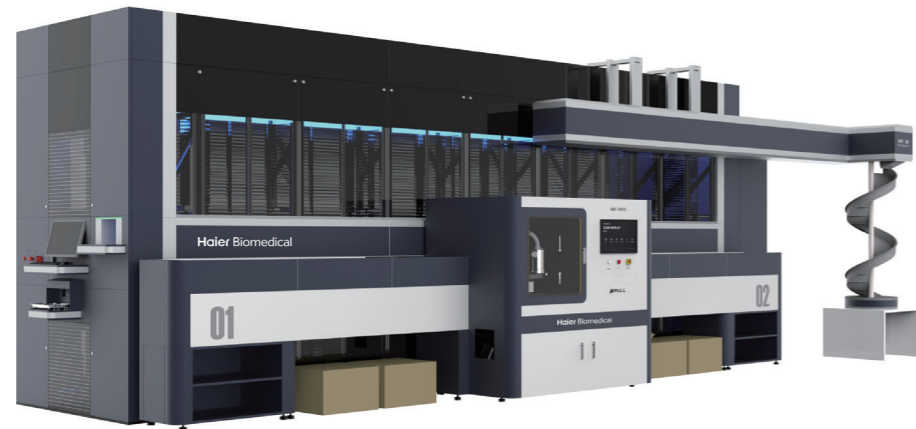
### Directly Sending to the Transmission System

The medicines in the equipment are delivered to the corresponding windows directly

### Bottled Medicine Replenishing Function (Automatic Withdrawal Function)

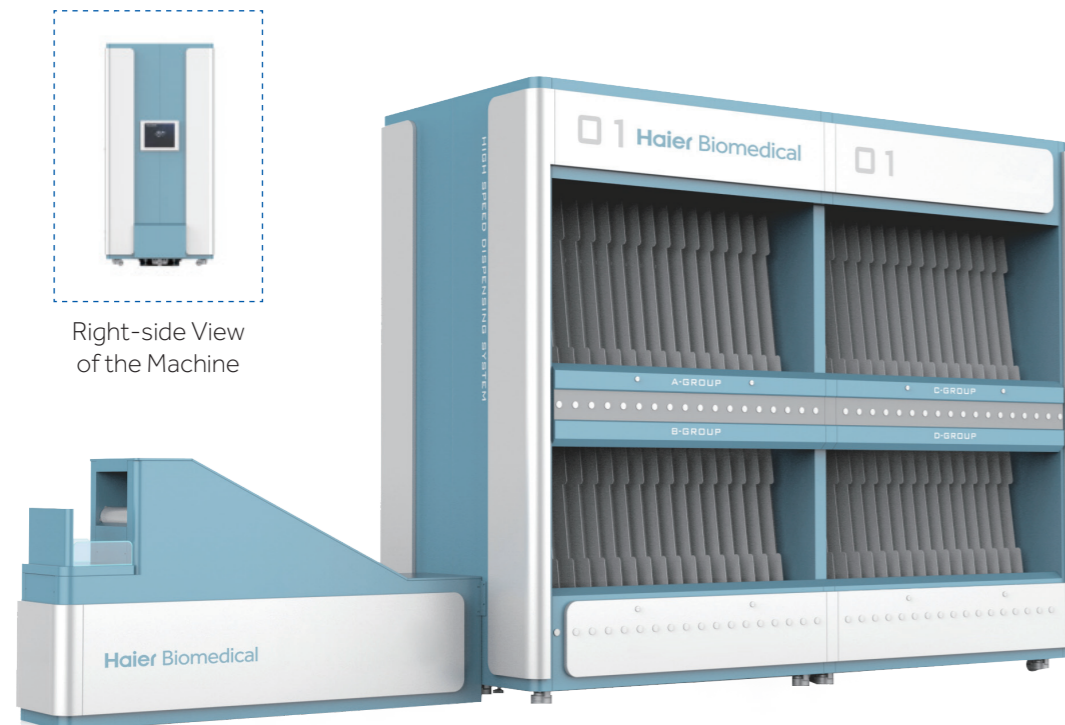


### Batch Medicine Replenishing System



- Dispensing: Dual manipulators dispense simultaneously
- Storage capacity: Up to 60,000 boxes
- Support equipment: Refrigerated medicine management system and automatic medicine cleaning system
- Medicine replenishing: Unattended fully-automatic medicine replenishment

### High-Speed Dispensing Machine



Based on a modular design, it is a perfect fit for the fully-automatic rapid dispensing machine. After receiving the prescription information, the unit can send the medicines to the outlet of the rapid dispensing machine automatically. It is used for boxed medicines that are used frequently and consumed in large quantities. It uses stacked storage and other innovative methods to store such medicines uniformly.

It can be seamlessly connected to the hospital HIS system and supports both online and manual control modes.

### Function Description

- Each module of the built-in high-speed dispensing machine comprises 44 to 52 storage positions (in two layers), and each storage position can store 65 to 120 boxes of medicines. The total storage capacity reaches more than 4000 boxes.
- The stand-alone high-speed dispensing machine comprises multiple modules.
- The dispensing speed of a single channel can reach 4 boxes per second, and the processing of every single prescription takes only 3 seconds. More than 3 channels can be used for dispensing at the same time.
- Automatic positioning indication is available during the medicine replenishing to enable stacked-type batch medicine replenishing. Multiple users are allowed to upload medicines at the same time, with each person uploading 100~150 boxes per minute.
- Startup self-check function, emergency stop protection, light curtain protection at the medicine collection opening, and motor overheating, overcurrent, and overload protection are available.

## Intelligent Operating Room Behavior Management System

Based on the Internet of Things, we have customized personnel management solutions starting with user experience.

Haier Biomedical provides the most advanced management consulting, solutions, information software, and services for customers in the medical care and health fields. As the provider of smart medical care integrated solutions in China, we engage in the overall planning, software development, system integration, operation and maintenance services, standard system construction, etc., and focus on the construction of intelligent regional medical care and digital hospital information system.

### Applicable Scenarios

The product aims to set up an operating room medical behavior management system in hospital operating rooms based on RFID technology and automatic gown dispensing and recovering technology. It integrates the automated access management of medical staff, the automatic dispensing and recovery management of operating gowns and operating shoes, the automatic identification and intelligent management system of gown and shoe changing cabinets, and the management of the operating room automatic doors to build an integrated solution to the intelligent operating room cleanliness management and medical behavior traceability.

### Advantages of the Solution

#### Efficient Management

- Transformation from artificial flexible management into systematic rigid management
- Access control and behavior control of the medical staff and temporary staff
- Clothing management to effectively reduce financial costs
- Reducing the clothing inventory base and the labor intensity of auxiliary staff

#### Better Services

- The solution can ensure the punctual arrival of medical staff and improve patient satisfaction.
- The intelligent gown dispensing function can help solve the congestion during rush hours

#### Enhanced Infection Control

- The post-operation clothing control can reduce cross-infection risks.
- The personnel access control reduces the hospital infection risks.
- Intelligent storage space management can improve the effective use of the gownchanging transit environment and make the environment more tidy.
- The solution can improve the operating room environment and the working efficiency of medical staff.

#### A Good Aid to Decision-making

- It can perform medical staff performance appraisals.
- The multi-dimensional report data can help in management decision-making.

## Operating Room Intelligent Anesthesia Trolley

### Specifications



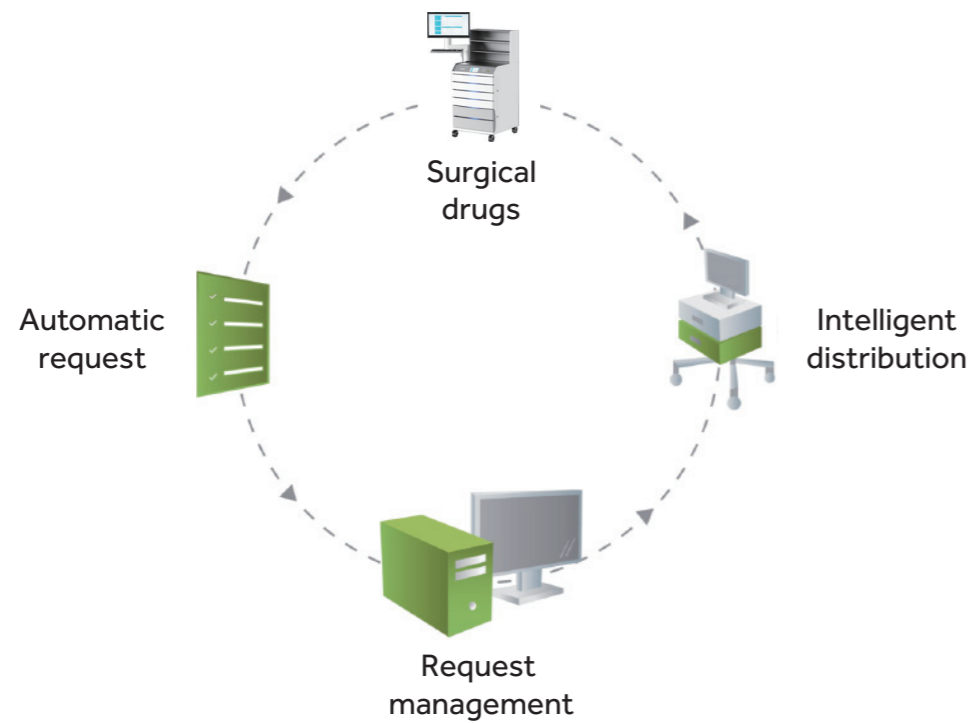
Model	HOH-M600-A
External Dimension (W*D*H) (mm)	620*700*1545
Small Pillbox (Standard)	24 pcs
Storage Capacity of a Single Small Pillbox	150 pcs (Counting by 1 ml Ampoule)
Large Pillbox (Standard)	8 pcs
Storage Capacity of a Single Large Pillbox	20 pcs (Calculated on a Regular Pillbox. 76*130*20(W*D*H) (mm))
Display Screen	7-Inch Display +23-Inch Touch Screen
Power Supply (V/Hz)	AC 220V, 50/60HZ
Power (W)	350



### HOH-M600-A Operating Room Intelligent Anesthesia Trolley

It can store the anesthetic drugs safely in each operating room and provide 24h/7d convenient, timely, and accurate drug access.

Through the collaborative management of the intelligent supervision center of the Department of Pharmacy and the intelligent operation center of the Department of Anesthesiology, it can supervise surgical drugs intelligently to deliver a modern hospital intelligent medicine management mode that features dynamic inventory management and intelligent medicine distribution.



## Surgical Drugs

- Review of the request form and prescription information
- Dispensing
- Generation of the delivery list
- Automatic request of the medicines depending on the dosage

## Request Management

- Review of the request form and prescription information
- Dispensing
- Generation of the delivery list

## Automatic Request

- Automatic request of the medicines depending on the dosage
- Automatic summarization of the request requirements of all intelligent cabinets in the department
- Automatic sending of the request forms to the Pharmacy Department on time

## Intelligent Distribution

- Online medicine delivery and checking
- Automatic generation of the intelligent cabinet replenishment orders
- Guiding the accurate replenishing of medicines into the intelligent cabinets

## Product Parts

### 19" surface Acoustic Wave Touch Screen

- It is easy to operate and features a clear display effect
- It allows users to operate while wearing gloves in a surgical setting
- The whole screen is free of dead corners and easy to clean and disinfect.

### Flexible Drawer Configuration

Drawers of three safety levels are available for selection to meet the storage requirements of different medicines.

### Sensor Drawer

It can sense the opening state of each medicine box automatically to simplify the procedures of medicine dispensing.

### Machine Body Operation Screen

The creative machine body operation and control screen is ergonomic and convenient for users to view the information of medicine receiving or replenishing with the best view of field and to confirm the operations.

### Secure Drawer

Each medicine box comes with an independent lock, which conforms to the strictest narcotics control regulations.

### Guided Drawer

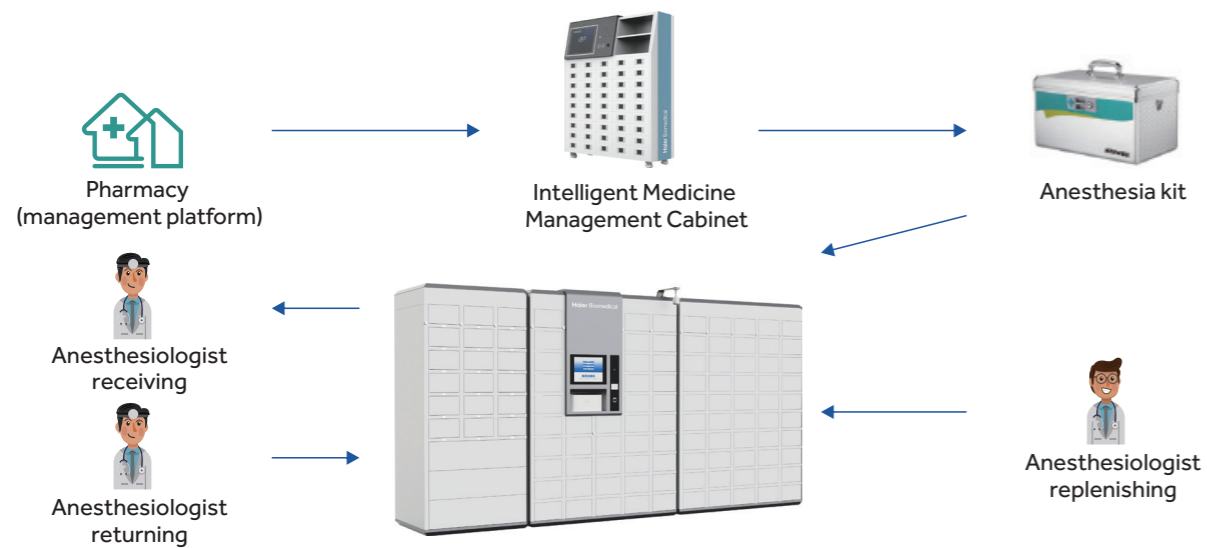
Through the light source, it can guide the medicine dispensing; also, each layer of the drawer can store a maximum of 96 medicines independently, and the drawer also supports the mixed storage of different medicines.



## Operating Room Anesthetic Pharmacy Management System

It conforms to the anesthetic management requirements and makes medicine management more convenient to comprehensively improve the management level of anaesthetic and tranquilizer drugs; it classifies the anesthesia kits according to the surgical drugs and enables the intelligent and on-demand access of the kits; it can monitor the medicines throughout the process (storage cabinets, anesthesia kits, anesthesiologists, and patients).

It can build the integrated management of intelligent terminal equipment to deliver a whole-hospital solution to the management of anaesthetic and tranquilizer drugs and special drugs. It can achieve whole-staff closed-loop management and whole-process monitoring for the anaesthetic and tranquilizer drugs and comprehensively improve the hospital's management level concerning such drugs. It can build an intelligent, information-based, and automated management mode in the operating room anesthetic pharmacy to monitor the flow of each drug in real time and identify the responsible person and supervise and trace the recovery process of each empty bottle, thereby ensuring the safety of the anaesthetic and tranquilizer drugs and special drugs during medicine receiving and using.



## Intelligent Mixing Machine



- Efficient**  
 It can be connected to the hospital HIS system for real-time data exchange, receive prescription information automatically, and prompt the dosing positions intelligently. It operates following the optimal paths to effectively improve dispensing efficiency.
- Secure**  
 Based on the safety light curtain design, the equipment will stop automatically in the case of any error in operation to ensure the safety of the pharmacists.
- Intelligent**  
 Intelligent alarm prompts are available when the medicines in stock reach their lower limits. The required medicines can be automatically transferred to the pharmacists, and the LED lights will indicate the exact positions of the medicines.
- Optimized medicine management**  
 The equipment can monitor the inventory/expiry date management of the medicines in real time. It can be used alone, online with multiple other machines, or online with the outpatient system.

## Intelligent Injection Cabinet



- Automatic distribution of ampoule and penicillin bottles of different sizes
- Automatic inventory counting function
- Also capable of distributing boxed medicines at the same time

## Intelligent Pharmacy Shelf



- Intelligent medicine access for outpatient, emergency, inpatient, PIVAS, and large-pack medicines.
- Indicating the medicine positions automatically and displaying the medicine name and inventory quantities at the same time.

Note: LED indicator lights can be used to indicate the positions directly.

## Entire Prescription Transmission System



- There is no need to place the intelligent medicine baskets in sequence. As an RFID card reader device is available at the corner of each buffering area, the system automatically reads and writes the information of the intelligent medicine baskets and automatically distributes them to the designated windows.
- Capable of customizing the inlet and outlet buffering areas depending on the actual field distribution of the windows
- Reducing the walking distance and work intensity of the pharmacists.

## Single-/Double-Outlet Basket Dispensing Machine



It can dispense medicine baskets automatically after binding corresponding prescription information to them and print patient information and medicine list.

## Intelligent Medicine Basket



They are self-luminous medicine baskets and do not need to be placed in fixed positions. They help to locate medicines quickly.

Remarks: The battery in each basket can last 300 days on a single charge.

## Prescription Checking System



The present invention provides an automatic medicine checking system, which comprises a database connection module, a sample picture entry module, a prescription information acquisition module, an image acquisition module, a checking module, and a feedback module, wherein:



- The sample picture entry module is used to input the appearance of all medicines that may be dispensed in the pharmacy into the database of the present system as the sample appearance pictures
- The database connection module is used to connect the database of the present system with the database of the HIS system
- The feedback module is used to give back the checking results to the dispensing pharmacists
- The image acquisition module is used to acquire the images of the medicines to be dispensed
- The prescription information acquisition module is used to obtain the prescription information required by patients from the database of the HIS system through the said database connection module
- The checking module is used to identify the said images acquired for the medicines to be dispensed according to the sample appearance pictures of medicines in the system database so as to complete the automatic checking of the medicines to be dispensed

## Medicine Replenishing Machine



- It supports 24h unattended automatic medicine loading;
- The medicine replenishing robot is capable of rotating freely at 360 degrees to grab medicines accurately (the medicines in the buffering area can be placed at will);
- The high-definition camera plus AI intelligent algorithms can accurately check the images and text on the outer packaging of medicines and check the bar codes of medicines at the same time to realize error-free dosing;
- The equipment can achieve seamless connection with subordinate systems (such as the dispensing machine replenishing system) to acquire the medicine inventory information in real time, reduce the number of medicine replenishing staff required, and improve the degree of automation.

## 24-Hour Unattended Pharmacy



A flexible medicine delivery drive unit is available

- Storage: It can store 70-140 kinds of medicines
- Inventory: Medicine shortage reminder function
- Medicine uploading: Automatic indication function for medicine uploading
- Storage capacity:  $\geq 1000$  boxes of medicines
- Convenience: Both the width and interlayer spacing of the medicine storage tracks can be adjusted as needed to improve the space utilization rate.

### Product Advantages

- The receipt printing function is available;
- It comes with symptom-oriented purchasing procedures/medicine search purchasing procedures;
- It supports online consulting and video diagnosis functions
- The payment system not only supports cash payment, bank card payment, and medical insurance card payment but also can be combined with the pharmacy sales system.
- It is suitable for hospitals, outpatient clinics, and 24-hour drugstores and supports self-service prescription dispensing through prescription scanning. Also, it supports face-scanning payment and body temperature measurement functions.

## 24-Hour Unattended Pharmacy (For Injections)

### Product Features



- Manipulator dispensing: This product stores injections and oral medicines separately and uses manipulators to grab the medicines so as to ensure 100% correct dispensing, prevent the injections from being broken, and eliminate less and missing dispensing, etc.
- Visual AI dispensing review: It can eliminate dispensing errors arising from the artificial misplacement of medicines.
- Compact structure: As the front door is used for medicine replenishing, the rear of the equipment no longer needs to reserve space for medicine replenishing, and the equipment can be pressed against the wall
- Self-service payment: Through access to the hospital charge system, the equipment supports various payment methods, including medical insurance card payment, mobile phone scanning payment, etc.
- Self-service printing: The equipment supports the printing of invoices and the usage and dosage receipts
- Automatic inventory counting function: Capable of automatic inventory counting for the medicines in the storeroom
- Medicine shortage warning: When any medicine is in short supply, the product will notify relevant pharmacists automatically through 5G
- Medication consultation: After clicking medication consultation, the patients can be connected to the relevant pharmacists automatically for medication consultation remotely

## Fully Automatic Tablet & Capsule Packaging Machine

### Purpose/Application Scope

The fully automatic pharma packaging machine, based on the prescription information transmitted by the hospital information system automatically packs a single dose of oral tablets or capsules into the same medication bag (single-dose bag), and prints patient information on the bag as needed, such as ward, bed number, patient name, medication time, quantity, QR code, etc., ensuring that the medication is correctly delivered to the patient and that the patient takes it clearly and as prescribed.

### Product Features

- **Medicine Storage Department**  
The overall electric sliding cabinet-style medicine storage department features a medicine box with a sample display window.
- **Intelligent Canister**  
The rotor of the canister is custom-tailored according to the shape of tablets and capsules, and the canister has smart chip inside, allowing for placement at any position.
- **Manually Dispensing Tray**  
The double tray with 72 compartments, in conjunction with software, can achieve multiple spare medication slots for rotating medication addition, enhancing the overall work efficiency of the machine.
- **Packaging and Printing**  
Adopting the method of bagging after filling the medicine, it maximizes the use of the medicine bag volume. With dual heating heads and dual temperature control, it ensures the stability of the packaging effect.
- **Medication Verification**  
Optional medication verification and detection module can detect the strengths and quantity of the medication, mark the packaging of incorrect medications, and reissue new medications.
- **Seamless Integration**  
Seamlessly connected with the hospital's HIS system, with flexible interface methods, it can quickly and accurately process prescription information.

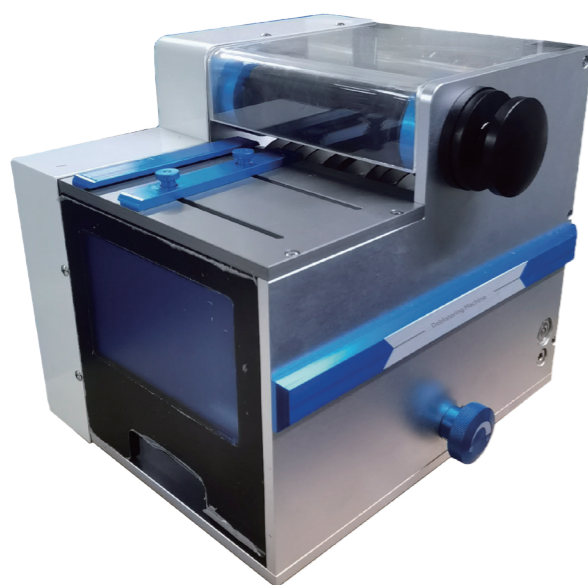


### Product Parameters

Parameter Model	HOH-FB-D240	HOH-FB-D300	HOH-FB-D360	HOH-FB-D480
Machine Size (mm)	880*930*1730	880*930*1865	880*930*2000	880*1207*2000
Quantity of Canister	240	300	360	480
Smart Computer	13.3	13.3	13.3	13.3
Portable Pad	Optional	Optional	Optional	Optional
MDU	72	72	72	72
Weight (kg)	550	600	650	750
Packaging Speed	60pcs/min(max)			
Pouch Size (mm)	75*70			
Print Type	Thermal Printing			
Voltage	220V/50-60Hz			
Power	550w (max. 1000w)			

## Deblistering Machine HOH-BY-02

### Product Features



Deblistering Machine

- The device can be used for peeling particles of Aluminum-plastic blister drugs of various sizes
- Adjustable space between stripping partitions to achieve automatic drug stripping
- Eliminate the risk of contamination from manual operation

### Specifications

Dimensions (mm)	Deblistering Speed	Power Supply	Power (W)
300 (L) *280 (W) *280 (H)	40 boards /Min	AC 220V, 50Hz	35

### Product Features



Cassette Counting Machine

- Rotary counting mode can automatically identify capsules and tablets
- The machine can count the entire box of drugs as well as certain prescription (fixed quantity)
- Eliminate the risk of contamination from manual operation

(Note: The machine needs to match the cassettes from HaierBiomedical ATDPS)

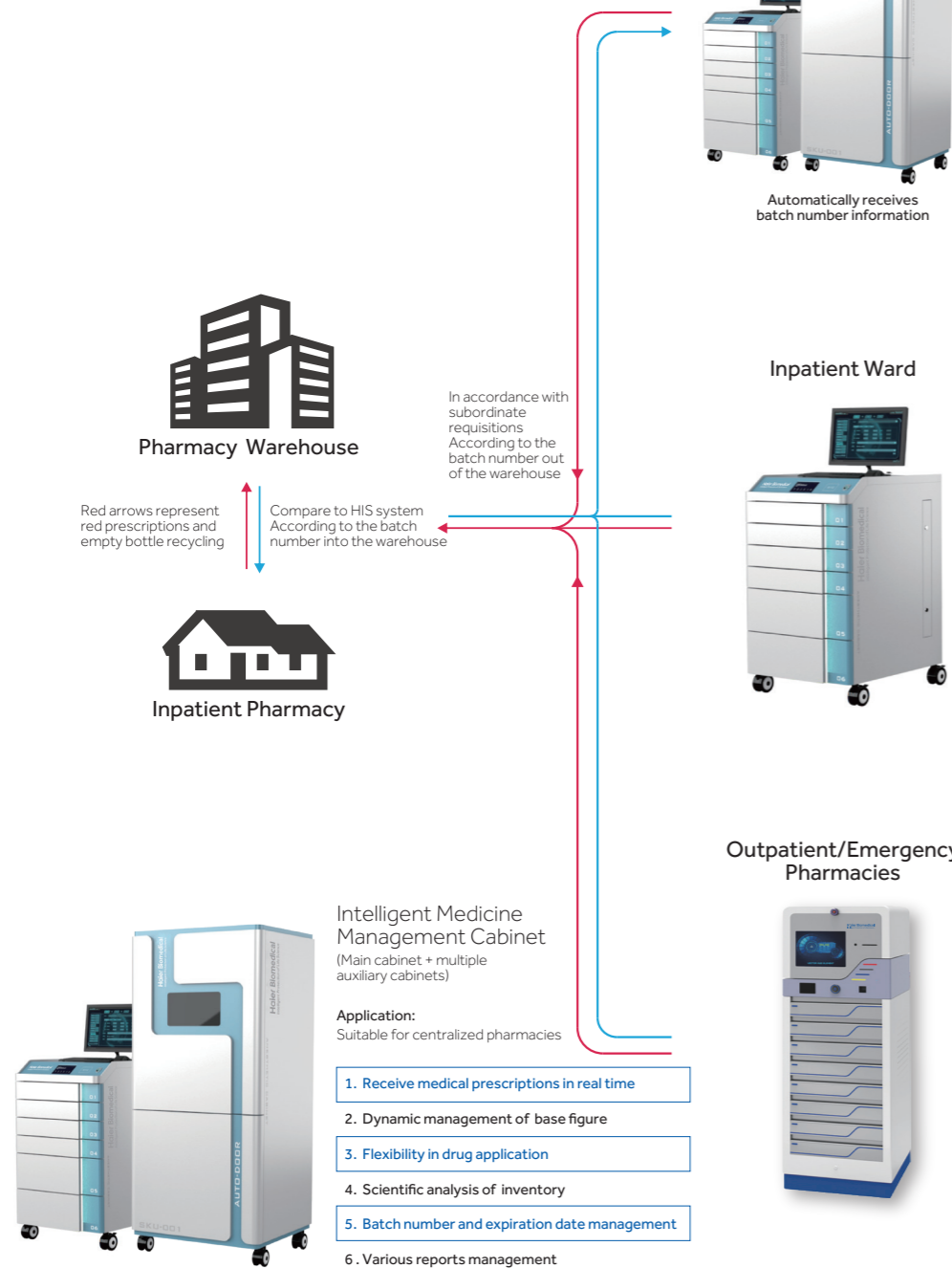
### Specifications

Dimensions (mm) (Without Cassette)	Counting Speed	Counting Method	Max Capacity
180 (L)* 135 (W)* 180 (H)	Max 240 particles/ min	Rotary counting method	9999 pills

Inventory Method	Induction Method	Screen	Power Supply	Power (W)
Single dose/ uniform inventory	Infrared multi-point induction	2.8 inch touch screen	AC 220V, 50Hz	50

## Anesthetic Medication Dispensing Cabinet

- Red arrows represent red prescriptions and empty ampoule recycling
- The blue arrow represents the medication issuance process
- The yellow arrow represents the final patient



### Intelligent Medicine Management Cabinet (Main cabinet + multiple auxiliary cabinets)

Application: Suitable for operating theatres and pharmacy prep areas

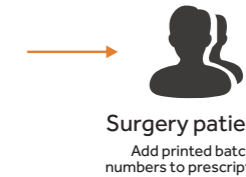
1. Automatic review of batch number during refill
2. Dual display technology
3. Fingerprint/Password/RFID authentication
4. Emergency unlock function
5. Empty ampoule recycling device
6. Main cabinet dispenser weighing boxes
7. Auxiliary cabinet boxed weighing cartridges
8. Guiding/counting function
9. Video recording of refill/pickup process



### Intelligent Medicine Management Cabinet

Application: Suitable for Operating room

1. Dual display technology
2. Fingerprint/Password/RFID authentication
3. Emergency unlock function
4. Empty Ampoule recycling device
5. Paper & Boxed Weighing Pill Boxes
6. Guiding/counting function
7. Consumables Compartments



### Intelligent Medicine Management Cabinet (Main cabinet)

Application: Suitable for Inpatient Ward

1. Dual display technology
2. Fingerprint/Password/RFID authentication
3. Emergency unlock function
4. Empty ampoule recycling device
5. The weighing function automatically records weights and counts to provide accurate information on accessed drugs
6. Guiding/counting function
7. Video recording of refill/pick-up process



### Intelligent Anesthetic Medication Dispensing Cabinet

Application: Suitable for outpatient pharmacy

1. Fingerprint/Password/RFID authentication
2. Emergency unlock function
3. Empty ampoule recycling device
4. Lock drug location function
5. Video recording of refill/pick-up process



## Authority management at all levels

Role	Function module
System administrator	User Management, Basic Data Maintenance, Authority Management
Pharmacy manager	Medicines Data Management, Electronics Report Management
Pharmacist	Drugs In, Drugs Out, Drugs Pickup/Inventory, Empty Ampoule Management, View Reports

Information Platform | Process Intelligence | Work Efficiency  
User-Friendly | Management Refinement

