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Full-chain Digital Intelligence Empowerment A New Benchmark for Outpatient Pharmacies

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June 2026



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Full-scenario Intelligent Pharmacy Solution for Outpatient and Emergency Departments

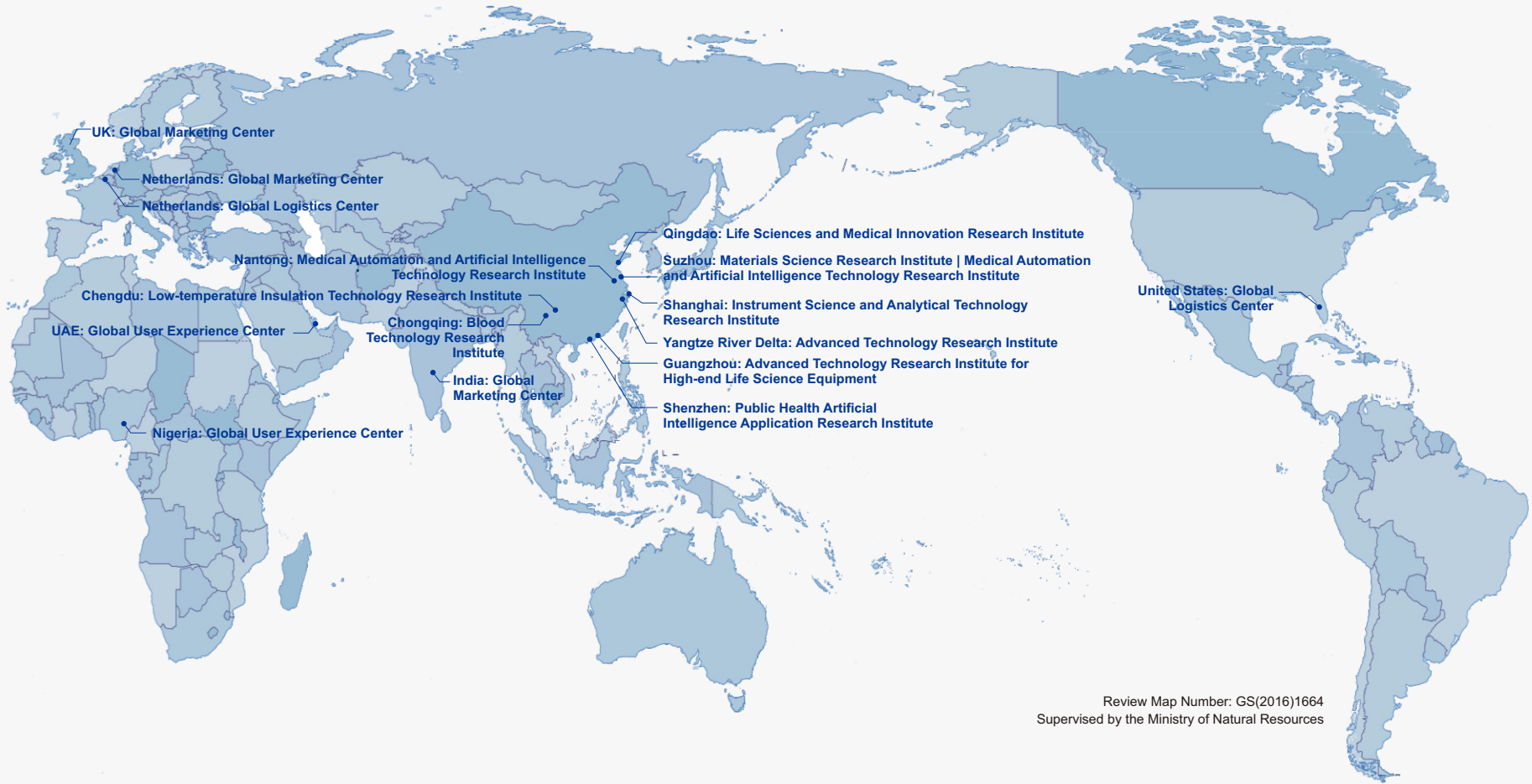
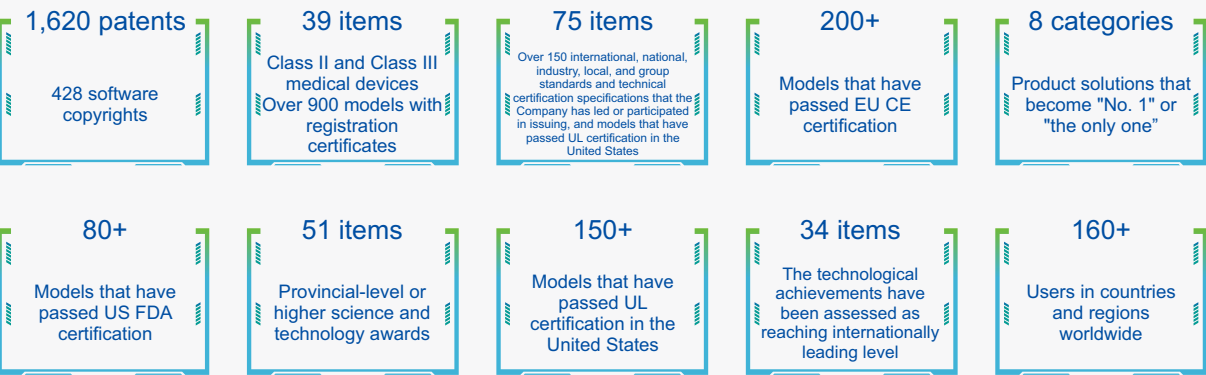


About Us



Haier Biomedical - A provider of customized integrated solutions for smart healthcare

Haier Biomedical was established in 2005 and listed on the STAR Market of the Shanghai Stock Exchange in 2019 (stock code: 688139). It is a key strategic layout of Incaier, the health sector of Haier Group, in the life science industry. The Company is committed to becoming a globally trusted world-class brand in life sciences. With the goal of creating the best user experience, it provides integrated digital scenario solutions covering multiple industrial fields such as low-temperature storage, laboratory solutions, in-hospital medication, and blood technology, serving life science users including pharmaceutical and biotech companies, universities and research institutions, as well as healthcare users such as hospitals, CDC centers, blood stations, and primary public health institutions.



Global
Marketing/R&D/Experience
Centers
17

Distribution
network
1,000⁺

Hospitals, enterprises,
and research
institutions
25,000⁺

Serving people
worldwide
1 billion



1. Full-scenario Outpatient/Emergency Pharmacy	001
2. One-stop Global Empowered Smart Full-scenario Solution for Outpatient and Emergency	
Departments	002
Scenario Introduction	003
1 Integrated Warehouse & Dispensing System for Pharmacy.....	005
2 Automatic Replenishment Robot.....	007
3 Replenishment Robot.....	009
4 High Speed Dispenser	011
5 Chute Type Dispenser.....	013
6 Robotic Arm Dispenser	015
7 Integrated Boxed Injection Dispensing Machine	017
8 General Dispensing Machine.....	019
9 Automatic Drug Traceability and Acquisition System.....	021
10 Conveyer System	023
3. Automatic Pharmacy-related Equipment	025
1 Unattended Automatic Dispensing Machine	026
2 24-hour Smart Medicine Cabinet	027
4. Other Related Equipment.....	029
1 Intelligent Dispensing Machine (Outpatient/IV)	030
2 Intelligent Injection Cabinet	030
3 Guiding Shelf.....	030
4 Basket Dispenser	031
5 Intelligent Medicine Basket	031
6 Desk-top Verification System.....	031
7 Self-service Registration Machine.....	031
5. Some Clients	032

Based on informatization and four core technologies



3D-AI visual
recognition



Temperature and humidity
control



High-speed motion control



Multi-robot bionics

Realize outpatient and emergency pharmacy operations



Automatic storage



Automatic
replenishment



Automatic dispensing



Automatic verification
function

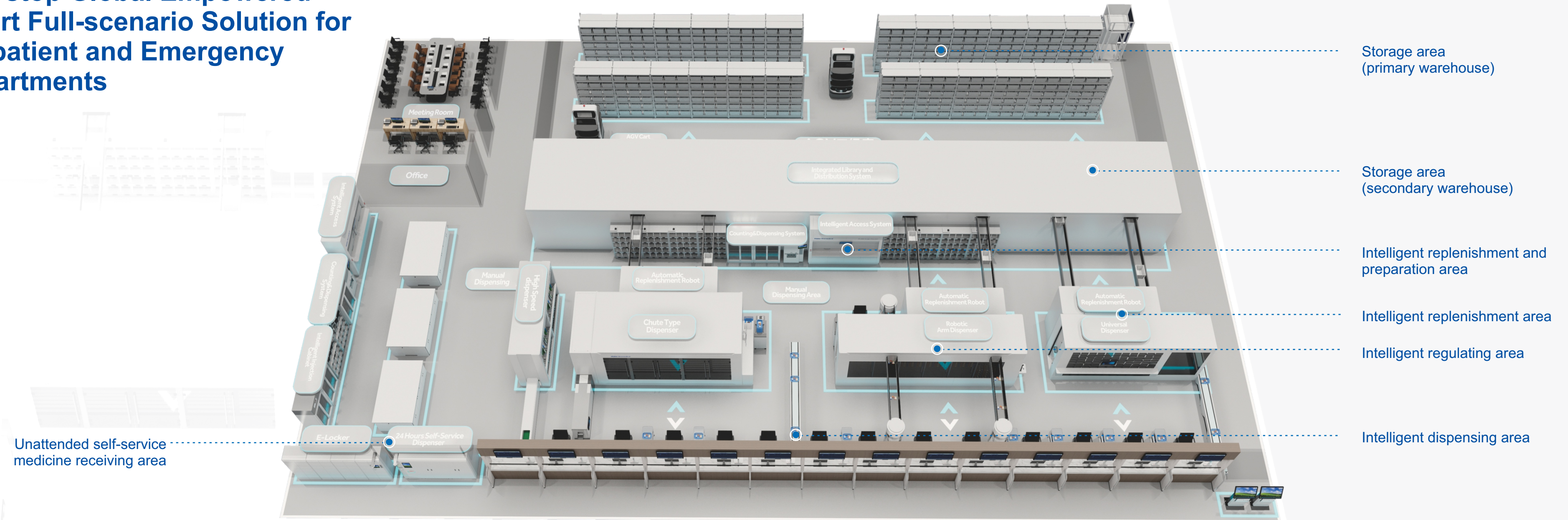
Full-scenario pipeline solution for outpatient and emergency pharmacies

One-stop Global Empowered

Smart Full-scenario Solution for Outpatient and Emergency Departments

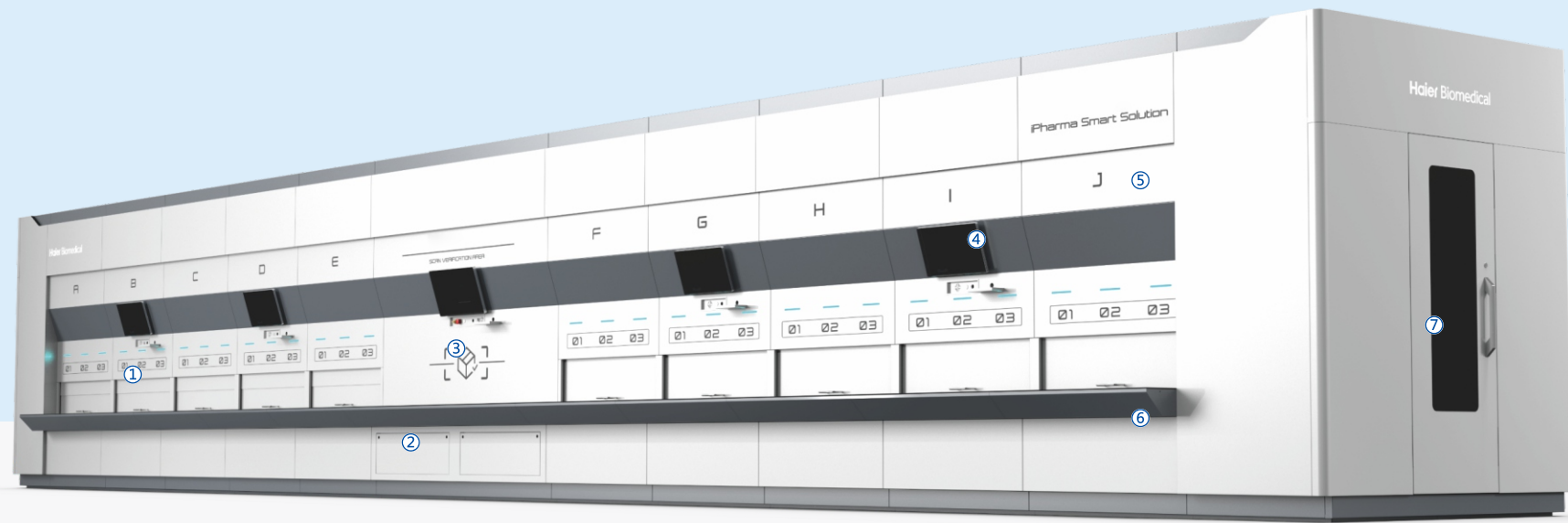
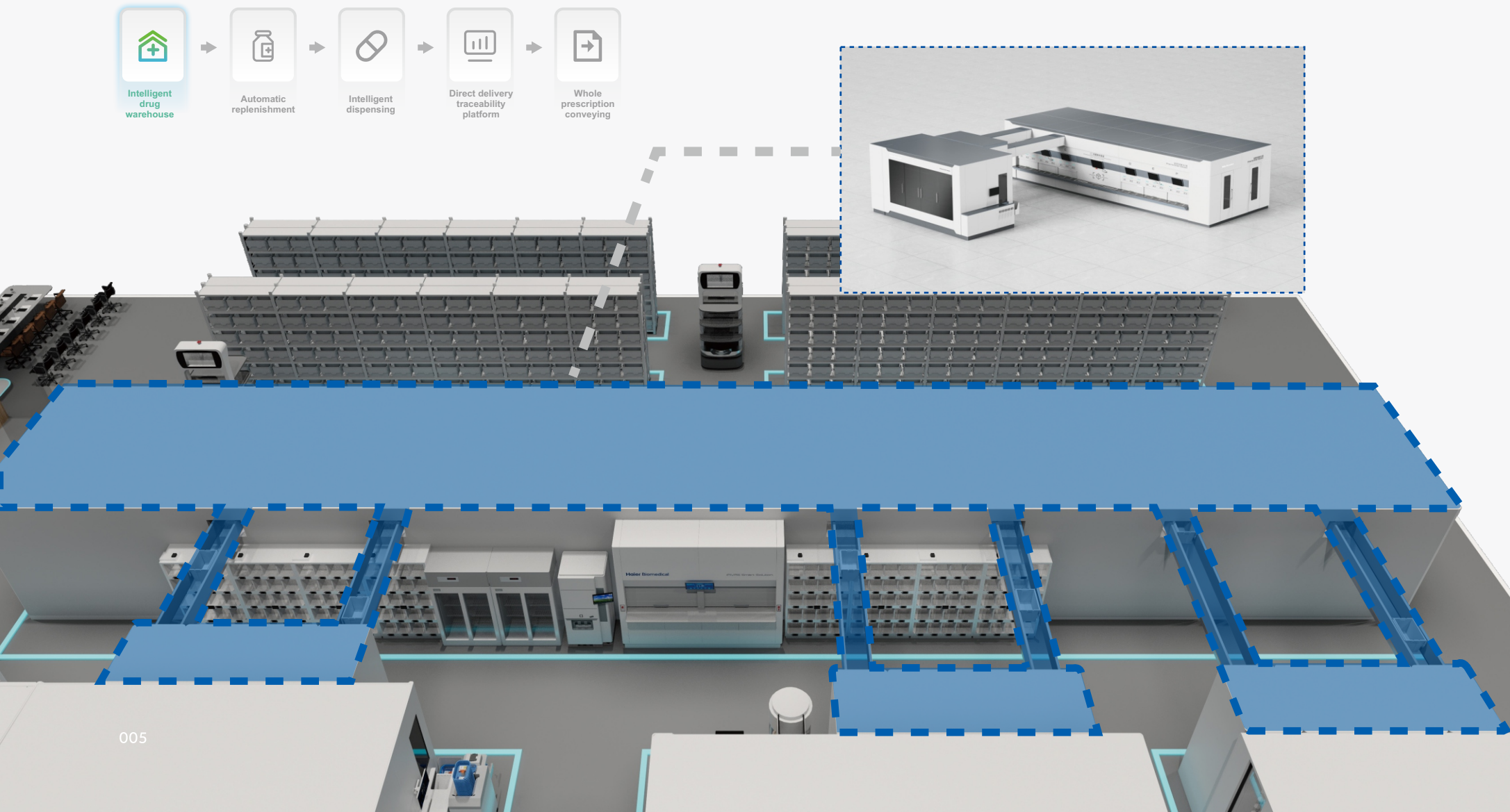
One-stop Global Empowered Smart Full-scenario Solution for Outpatient and Emergency Departments

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Intelligent secondary warehouse

The integrated warehouse & dispensing system for the pharmacy breaks down the physical barrier between the "storage area" and the "dispensing area" in traditional pharmacies. Through automated equipment, it realizes integrated end-to-end operations for the entire process from drug receiving, storage, picking, dispensing, to final dispensing, enjoying the advantages of both dense warehousing and automated replenishment and dispensing.



Product name

Intelligent secondary warehouse

Product functions

- ① Derivative operation large screen
 - ② Entrance of AGV/manual medicine replenishment station
 - ③ Terminal hub, interconnected with central server and other screens
- Cloud server viewing
Data report generation
Basic information maintenance
Record information of medicines and medicine baskets

Inventory module
Medicine storage module for automated storage and retrieval system
Independent dispensing window
Shovel type manipulator

Solution Advantages



Precise Inventory Management, Intelligent Replenishment



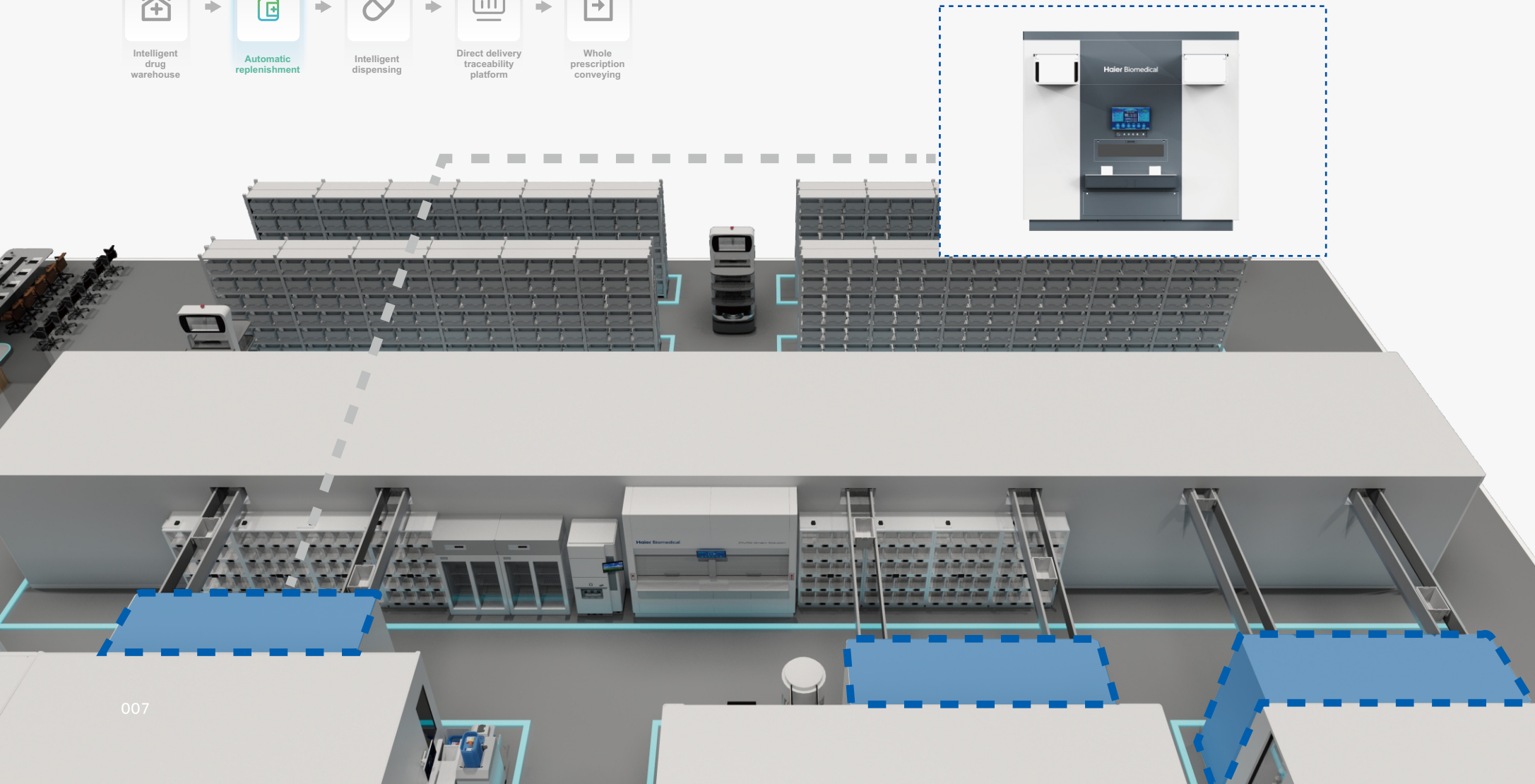
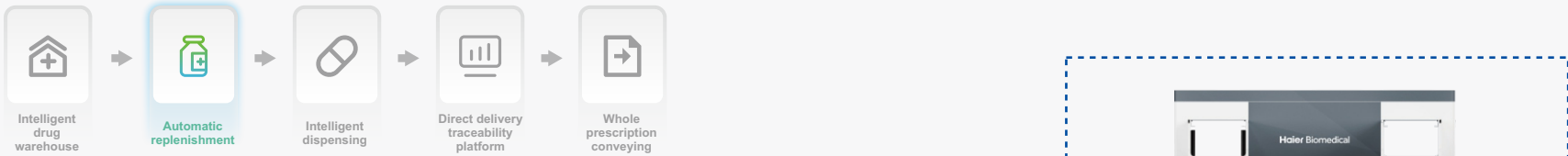
Intelligent Linked Warehouse Dispensing, Closed-Loop Efficiency Improvement



Full-chain Traceability, Compliance Control

Automatic replenishment robot (linked to secondary warehouse)

Relying on self-developed core technologies such as 3D-AI visual recognition, the automatic replenishment robot is equipped with automatic visual positioning and drug information identification technologies. It enables 24-hour unattended automatic replenishment, helps pharmacies realize intelligent management of the replenishment process, and ensures precise management during drug circulation. It can be applied to the replenishment processes of hospital pharmacies including outpatient pharmacy, inpatient pharmacy and emergency pharmacy. Linked with the automatic dispensing system, it forms an integrated intelligent pharmacy solution featuring "transportation-replenishment-dispensing".



Product name

Automatic Replenishment Robot

Product functions

- ① Medicine replenishment buffer channel
- ② Intelligent automatic picking manipulator
- ③ Manual replenishment channel
- ④ Interactive operation large screen
- ⑤ Intelligent conveyer top rail
- ⑥ Drug lifting system

Solution Advantages



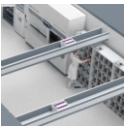
Warehouse replenishment coordination, batch drug loading

Highly flexible manipulators automatically replenish and dispense medicines to free hands



AI integration, verification closed-loop

One code on one box for full tracking, zero error in replenishment

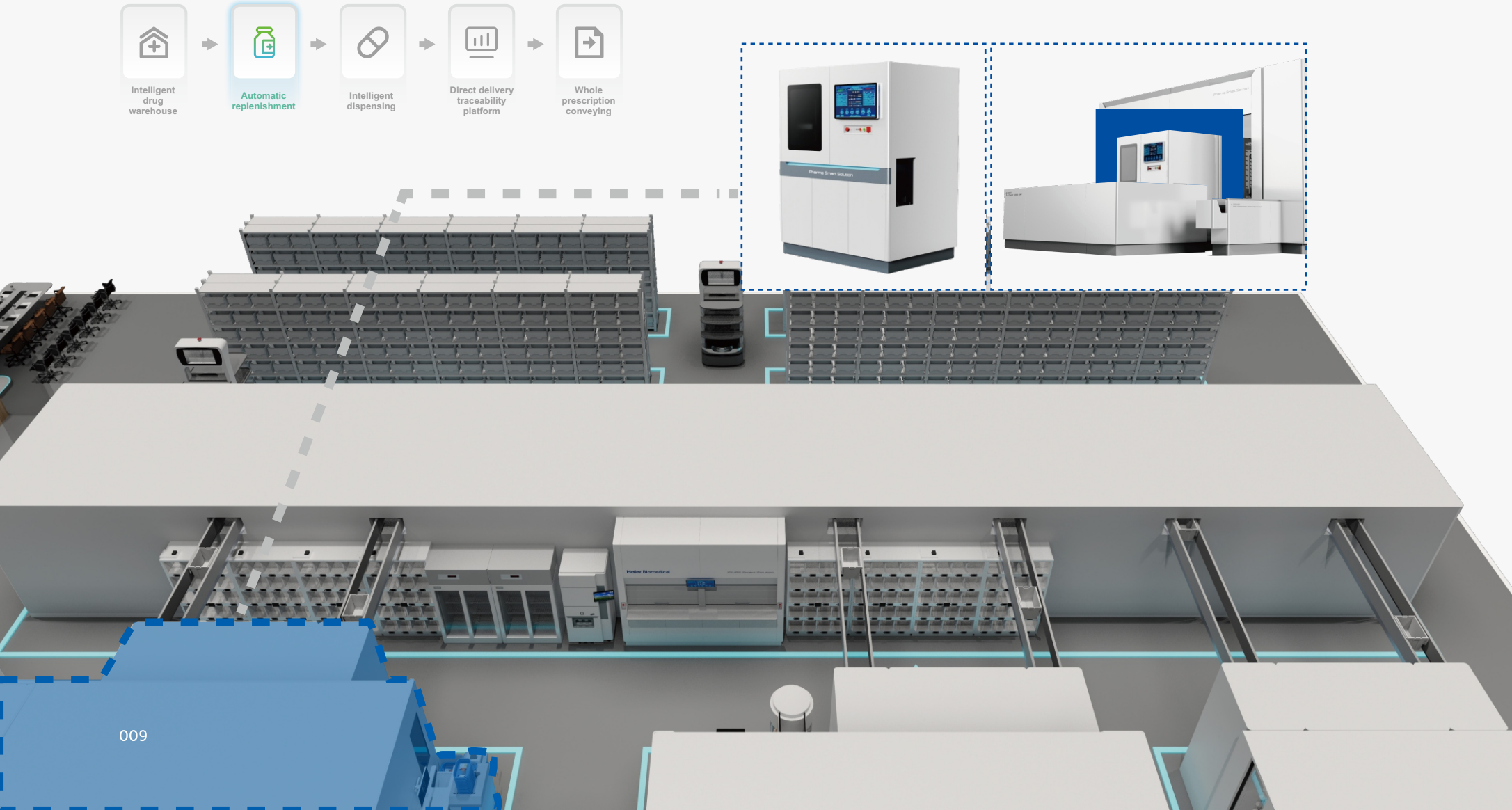


Full-chain traceability, real-time control

Connecting drug warehouse and various dispensing systems for interconnected and traceable information

Replenishment Robot

Relying on self-developed core technologies including 3D-A visual recognition, the system integrates visual automatic positioning and drug identification capabilities to deliver round-the-clock unattended automatic medicine replenishment. It facilitates intelligent management of pharmacy replenishment workflows and ensures precise control throughout drug circulation.



Product name
Replenishment Robot

- Product functions
- ✓ Automatic replenishment: Unattended loading 24 hours a day
 - ✓ Freeing hands: Disordered dumping sample loading
 - ✓ Precise replenishment: 360° replenishment robotic arm picks single medicine boxes
 - ✓ Data traceability: Verify and record drug batch numbers, expiry dates, quantities and other information

Solution Advantages



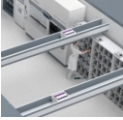
Interlinked with multiple dispensing systems

Compatible with rapid dispensers, robotic arm dispensers, boxed injection dispensers and general dispensers



AI integration, verification closed-loop

One code on one box for full tracking, zero error in replenishment

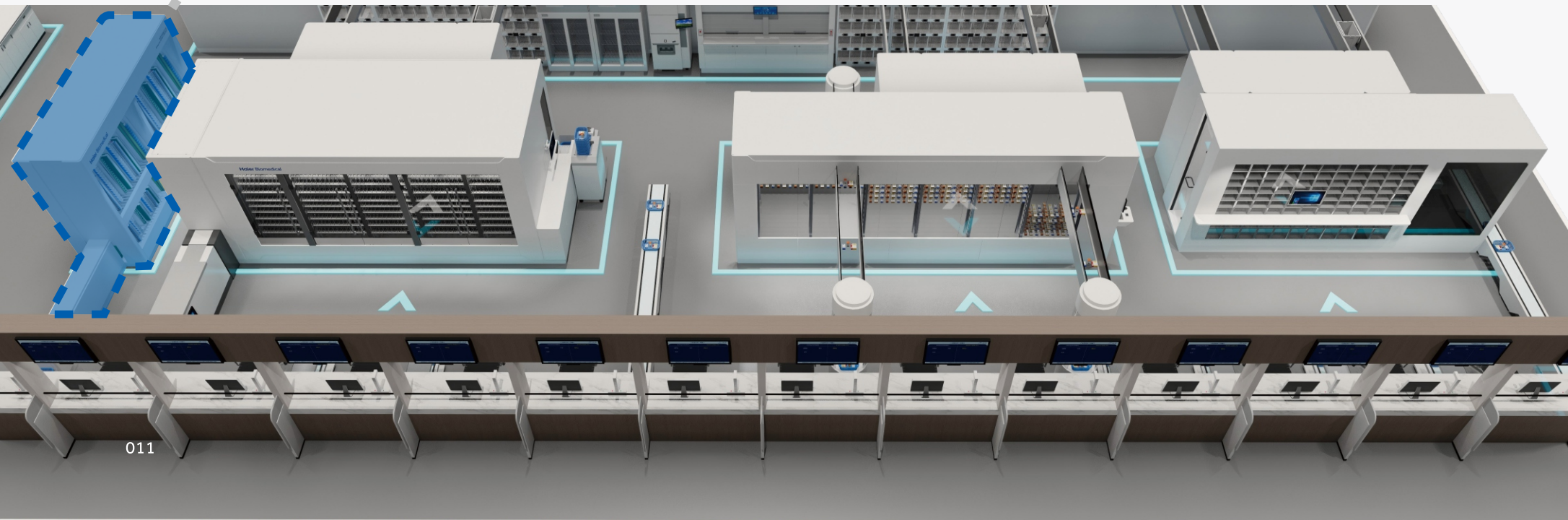


Full-chain traceability, real-time control

Connecting drug warehouse and various dispensing systems for interconnected and traceable information

High Speed Dispenser

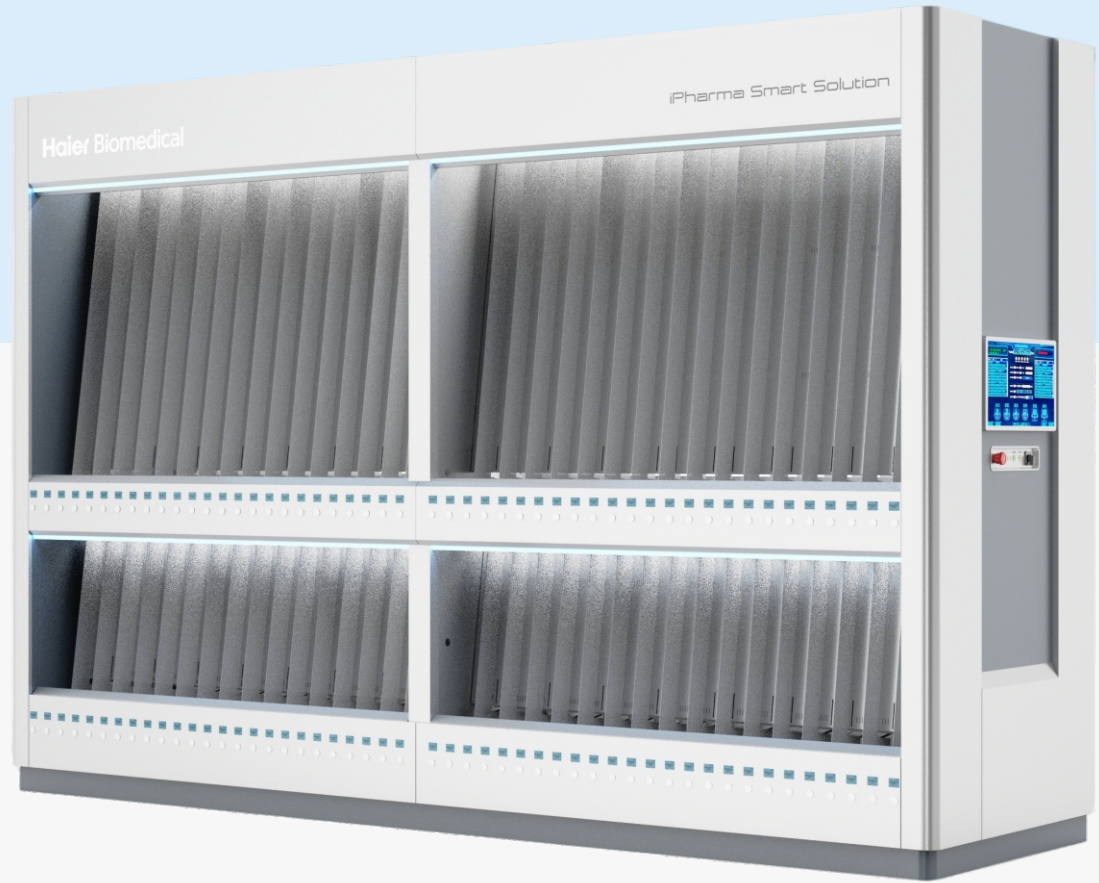
The high speed dispenser adopts a modular design. It is specially developed for boxed medicines with high frequency and large consumption. Supported by stacked dense unified storage, it realizes efficient medicine management and dispensing under high-load pharmacy scenarios.



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Product name
High Speed Dispenser

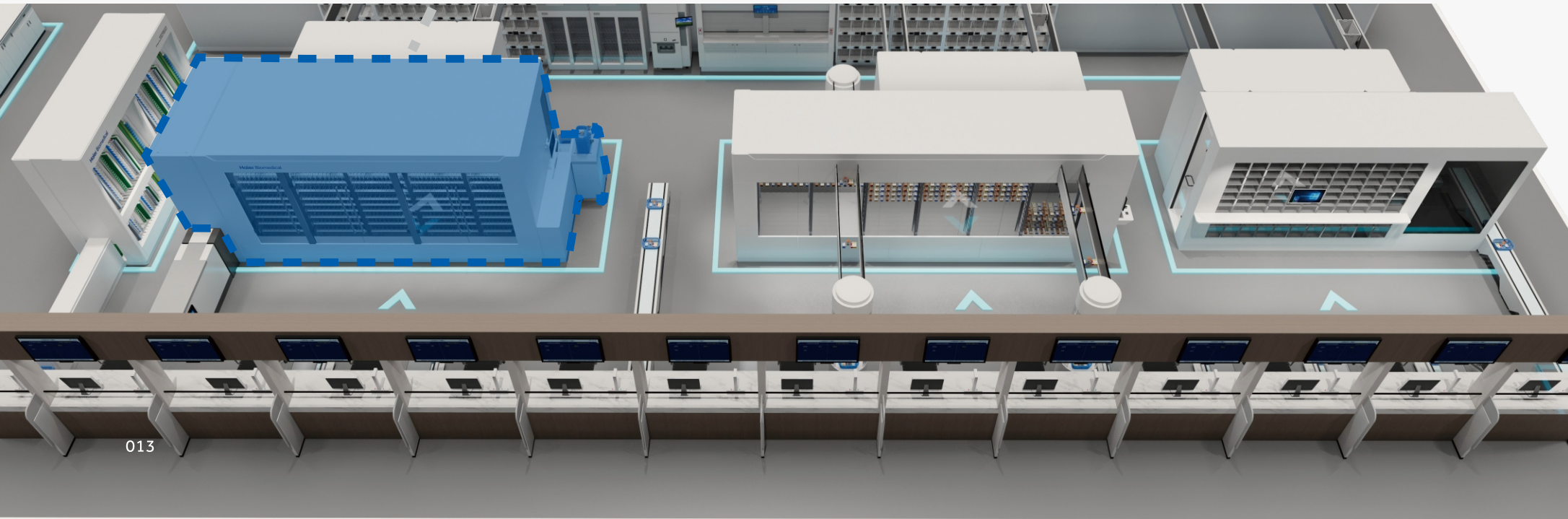
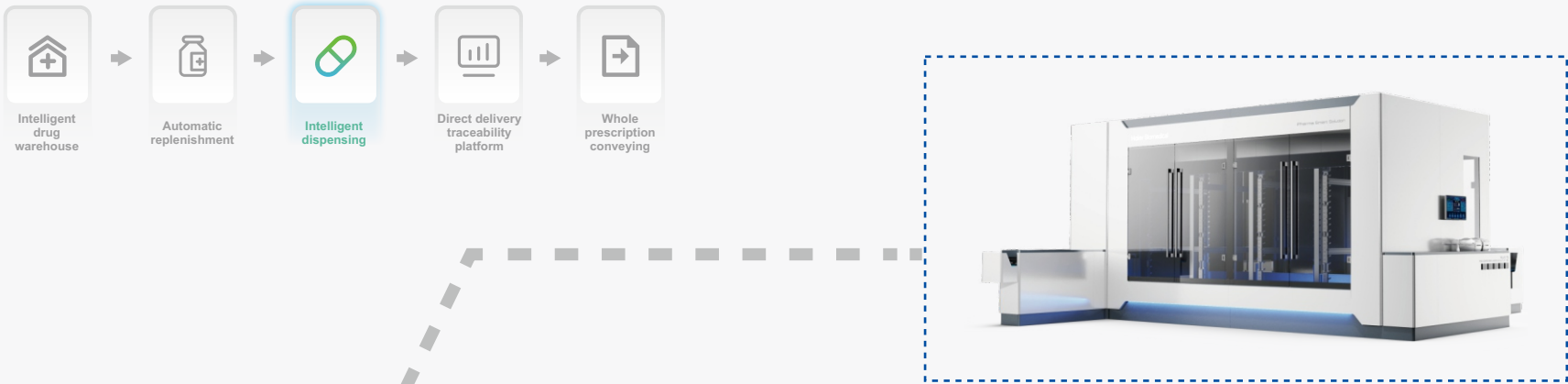
- Product functions
- ✓ Stacked drug loading: With batch replenishment pre-buffering system
 - ✓ Automatic positioning indication: Indicator lights of corresponding drug slots light up to alert abnormalities or shortages
 - ✓ Stacked storage: Adjustable slot width to t different medicine box sizes
 - ✓ Batch dispensing: Multiple medicines for a single prescription can be dispensed to the outlet at one time



- 优势 Advantages
- Multidimensional coordination**
Space-saving design, adaptable to all scenarios
 - Flexible storage and replenishment**
Suitable for large-capacity and high-frequency usage
 - Ultra-fast dispensing**
Multi-channel modular design

Chute Type Dispenser

The chute type dispenser realizes synchronous dispensing of prescription drugs via seamless connection with the HIS system and full-screen one-time drug dropping mode, fully meeting the core demand for efficient dispensing in outpatient pharmacies.



Product name
Chute Type Dispenser

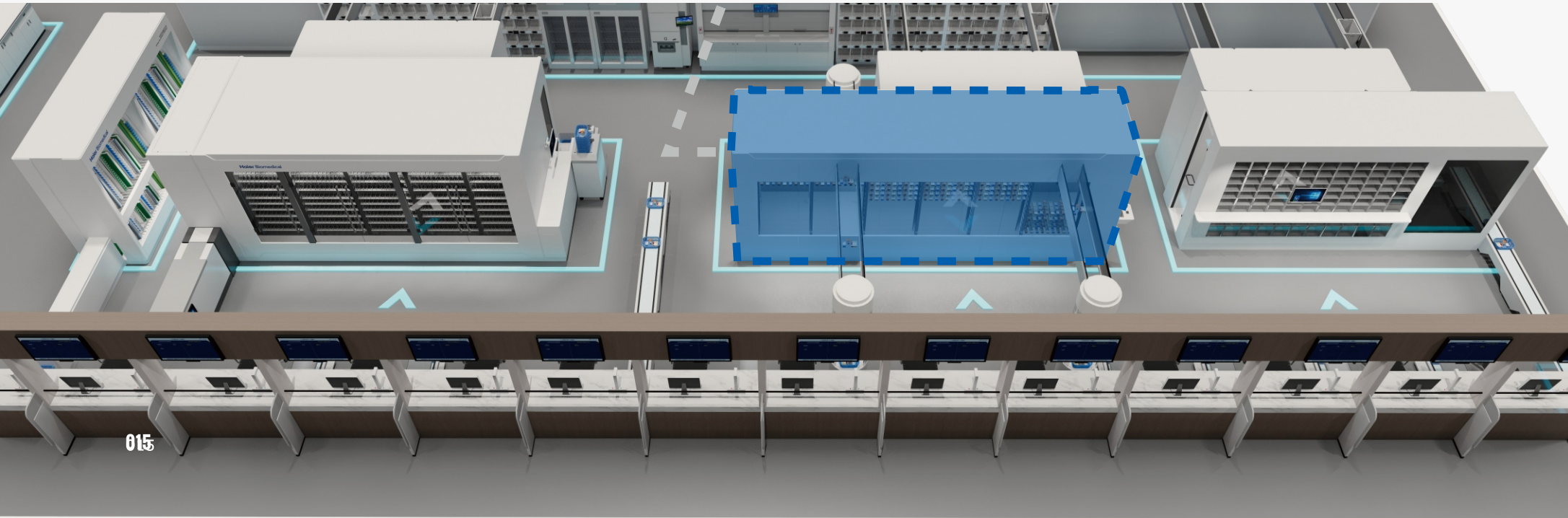
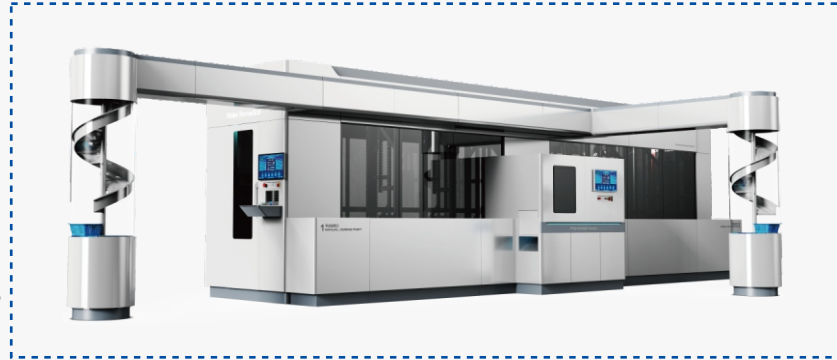
- Product functions
- | | |
|-------------------------------------|--|
| Left of the figure | Right of the figure |
| ① Direct delivery conveying channel | ① Large workload statistics screen |
| ② Dual counting function | ② Real-time system monitoring |
| ③ Multi-slot design | ③ Automatic replenishment by robotic arm |
| ④ Batch dispensing | ④ Manual replenishment system |
| ⑤ Manual dispensing port | ⑤ Unattended automatic replenishment system (optional) |

Solution Advantages

Eco-coordination capability Modular design supports capacity expansion on demand. It can coordinate with intelligent secondary drug storage for synchronized replenishment and dispensing, and integrate high-frequency dispensing and automatic replenishment systems.	Innovative materials The gravity type drug chutes are coated with special material to control friction and eliminate over-dispensing and under-dispensing of medicines.
Full-chain digital traceability Innovative new model of "storage-transfer-dispensing-distribution-consumption" realizes full-process control to ensure every link is fully accountable.	Smart Chain Skyeeye An innovative traceability scanning platform is added to the direct dispensing and conveyor system to eliminate the hassle of complicated scanning operations.

Robotic Arm Dispenser

The robotic arm dispenser is modern dispensing equipment integrating industrial-grade robot technology and intelligent warehouse management system. It can seamlessly interface with the hospital HIS system to receive prescription information in real time. Equipped with high-speed precise robotic arm coordinated with a visual recognition system, it automatically captures, precisely positions and rapidly dispenses medicines to deliver an automatic dispensing workflow.



Product name
Robotic Arm Dispenser

- Product functions
- ① Large visualized data software screen
 - ② Drug conveying channel
 - ③ Automatic replenishment system
 - ④ Refrigeration module design
 - ⑤ Full-process traceability
 - ⑥ Double robotic arms

Solution Advantages

Zero error traceability

Integrated with an AI visual traceability system, each robotic arm is equipped with a high-precision camera, ensuring full traceability throughout the process.

Refrigeration management of special drugs

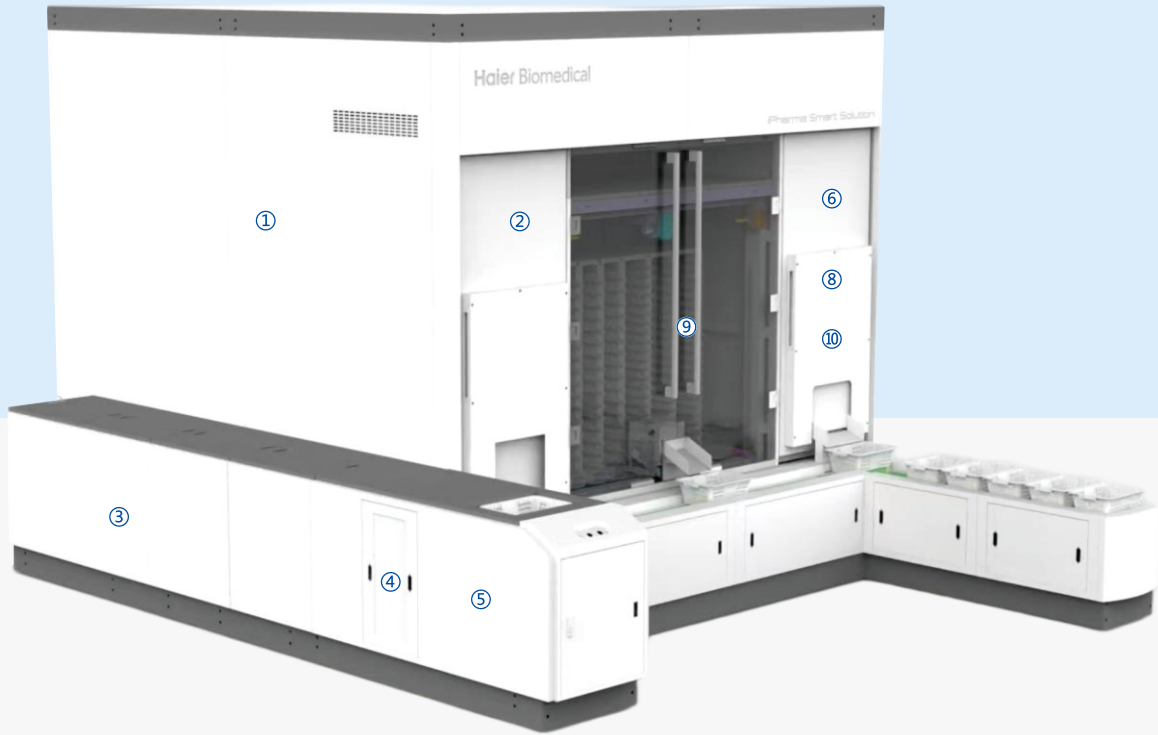
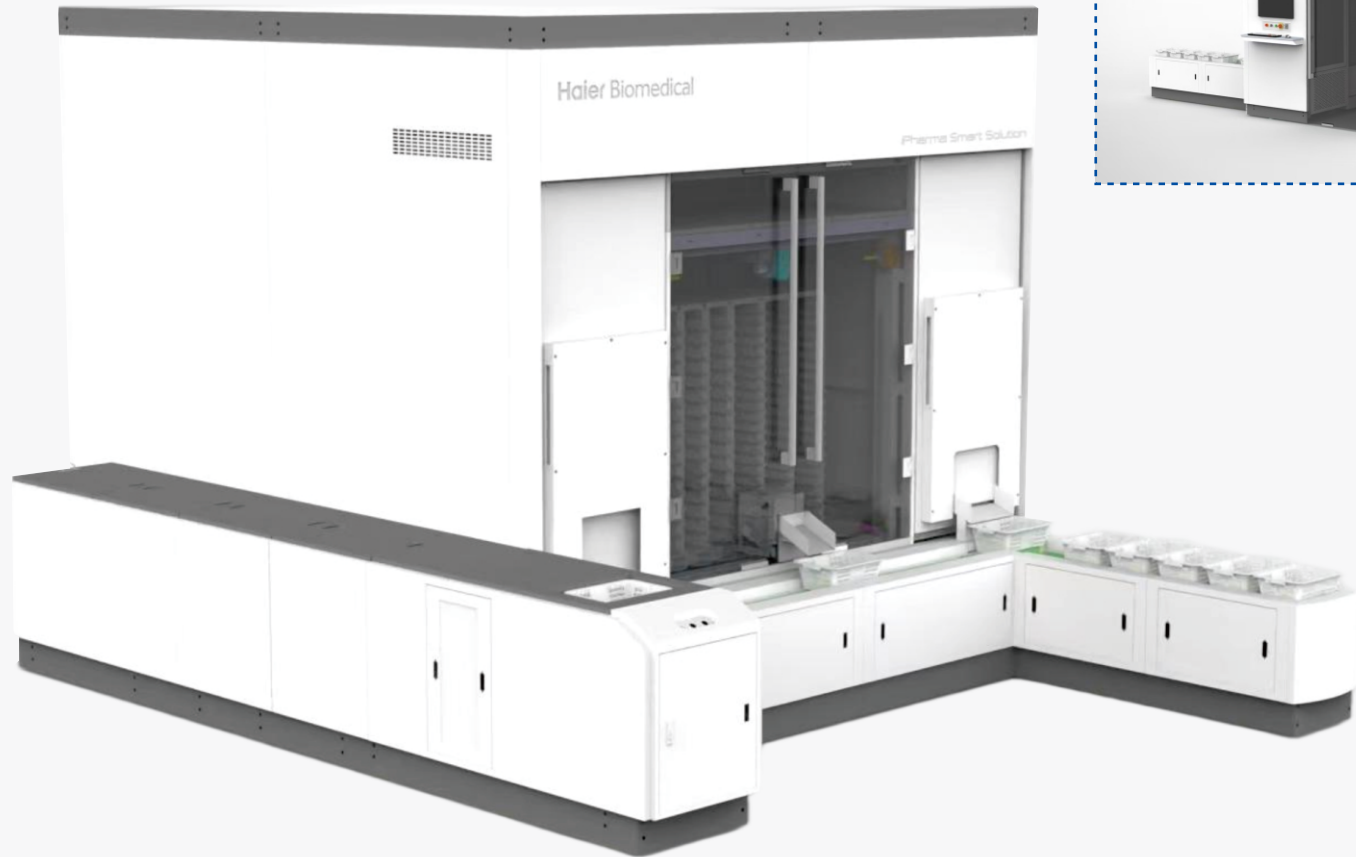
Built-in cool and refrigerated modules, achieving real-time accurate temperature and humidity monitoring

Digital intelligent inventory management

Full-process automatic management synchronizes drug consumption data in real time and implements the first-in, first-out principle for drug efficacy, reducing losses caused by expired medicines.

Integrated Boxed Injection Dispensing Machine

It is compatible with various specifications of medicines including boxed drugs, bottled drugs, vials and ampoule injections; it also supports management of medicines under different storage conditions such as ambient temperature and refrigeration. Some models adopt a modular multi-chamber design, enabling flexible switching of dispensing modes according to prescription requirements. It is suitable for outpatient, emergency and inpatient pharmacies of general hospitals, and changes the traditional single-item dispensing mode.



Product name

Integrated Boxed Injection Dispensing Machine

Product functions

- | | |
|---|---|
| ① Room-temperature boxed medicine dispensing module | ⑥ Room-temperature injection dispensing module |
| ② Refrigerated boxed medicine dispensing module | ⑦ Medicine basket pending pickup cache module |
| ③ Scanning traceability module system | ⑧ Human-machine interaction large screen terminal |
| ④ Automatic basket dispensing module | ⑨ Refrigerated injection dispensing module |
| ⑤ Card reader | ⑩ Manual replenishment port |

Solution Advantages



Strong compatibility

1. Store medicines at ambient and refrigerated temperatures.
2. Dispense multiple dosage forms including boxed medicines, vials and ampoules.



Flexible and customizable

Customizable flexibly according to site conditions to meet the demand for high medicine storage capacity per unit area.

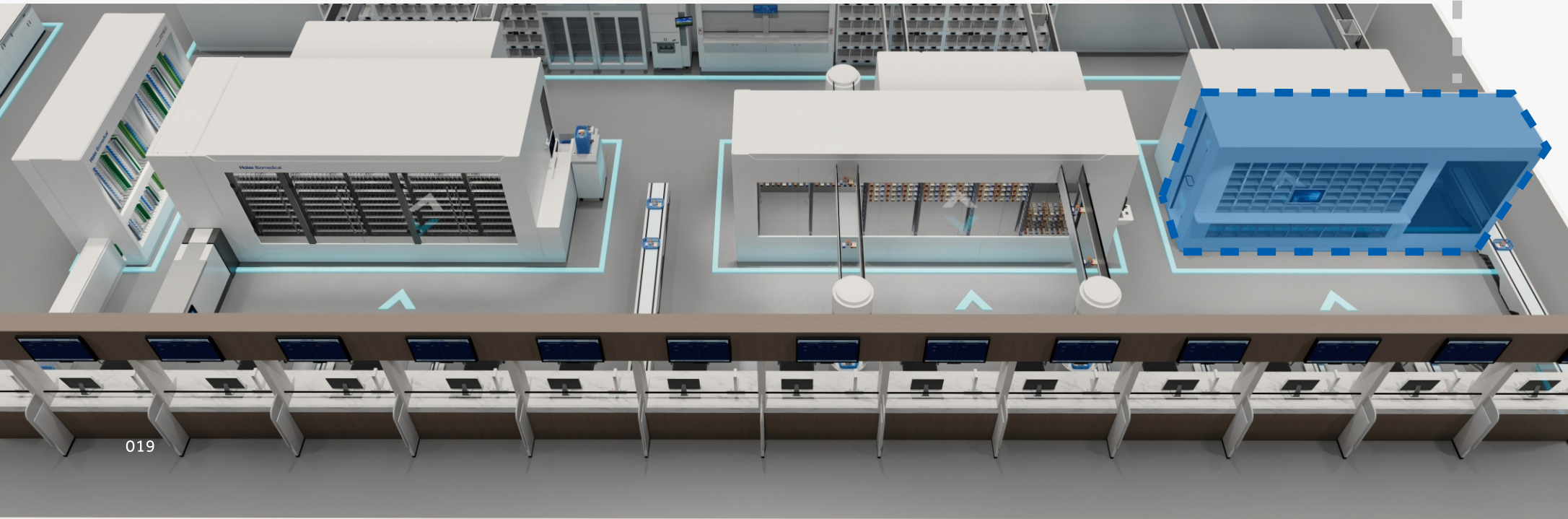


Digital intelligent management

Millisecond-level dynamic scanning technology builds a full-life-cycle traceability system for medicines.

General Dispenser

Equipped with multiple dedicated robotic arms, it can adaptively grab various types of drugs such as boxed drugs, plate-packed drugs, bottled drugs, injections and infusion bags. An automatic medicine dispensing and packaging device integrated with 3D vision-driven intelligent bag selection, which can automatically adapt to various medicine bags including light-proof and transparent ones, realizing professional packaging for all categories of medicines.



Product name
General Dispenser

- Product functions
- ① Labeling & plastic sealing
 - ② Pre-packaging of drugs
 - ③ Picking robotic arm
 - ④ Drug conveying
 - ⑤ Drug gripping (multi-category adaptive robotic arm)
 - ⑥ Drug storage module

Solution Advantages

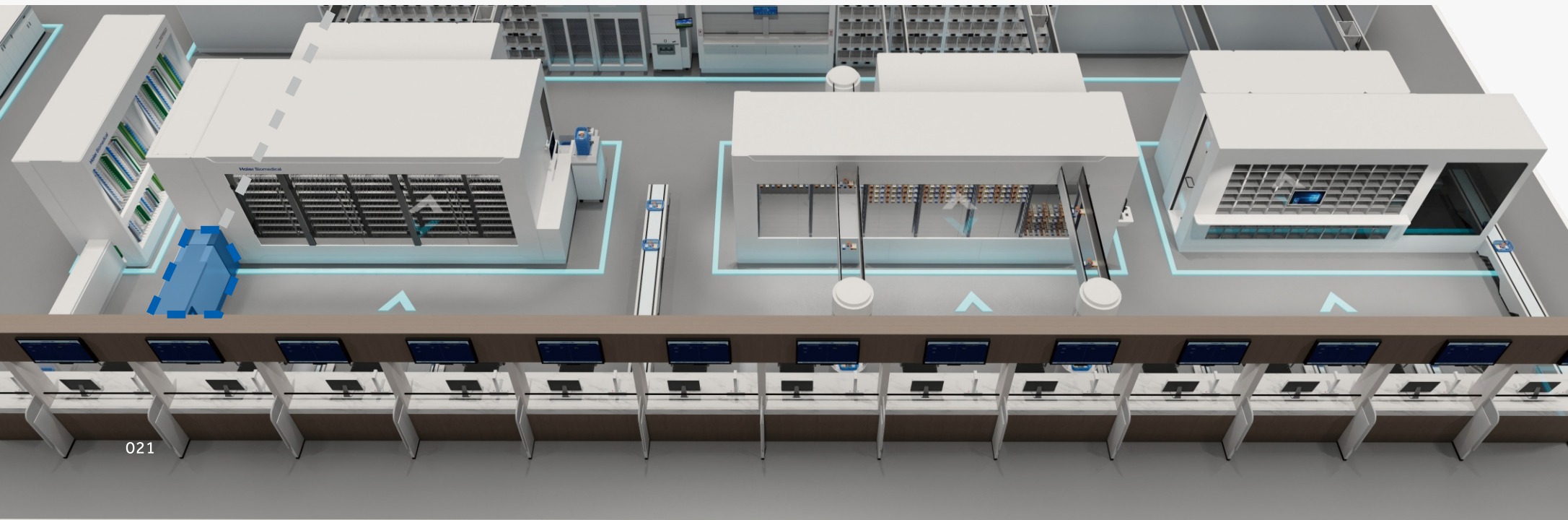
Full-range drug compatibility
Compatible with various drugs in pharmacies (boxed drugs, blister packs, bottled drugs, injections and infusion bags)

Compliant with standards of multiple countries
Interconnected international interfaces, compliance with pharmaceutical regulations of multiple countries, and multi-language interface support

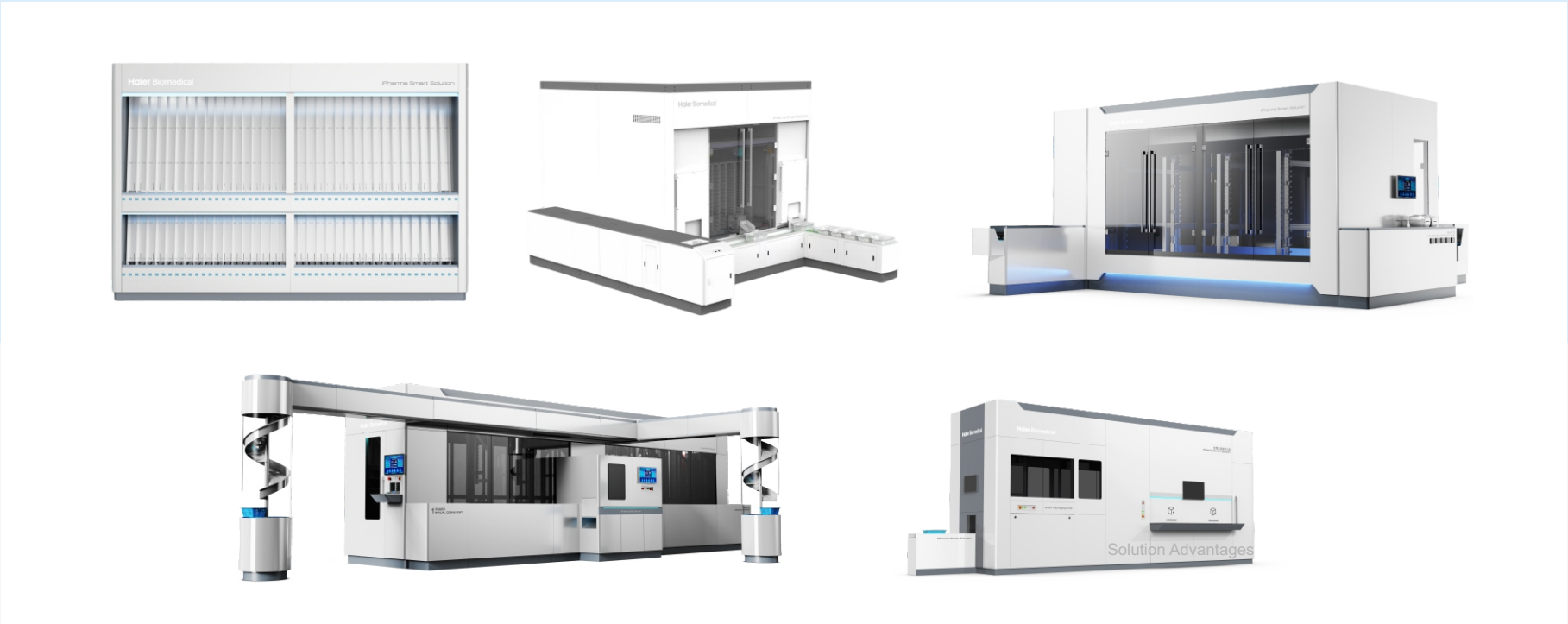
Full-process automation
Automatic circulation + precise labeling + intelligent bag selection + packaging and dispensing

Automatic Drug Traceability and Acquisition System

"Smart Chain Skyeeye" is an automatic drug traceability code acquisition system deeply integrated into pharmacy dispensing workflows. Adopting advanced multi-magnification hyper-visual sampling scanning technology, it can accurately capture and fully identify drug traceability codes regardless of their position or placement angle, ensuring complete traceability information in a single scan with zero omission.



Compatible with various dispensing systems



Solution Advantages



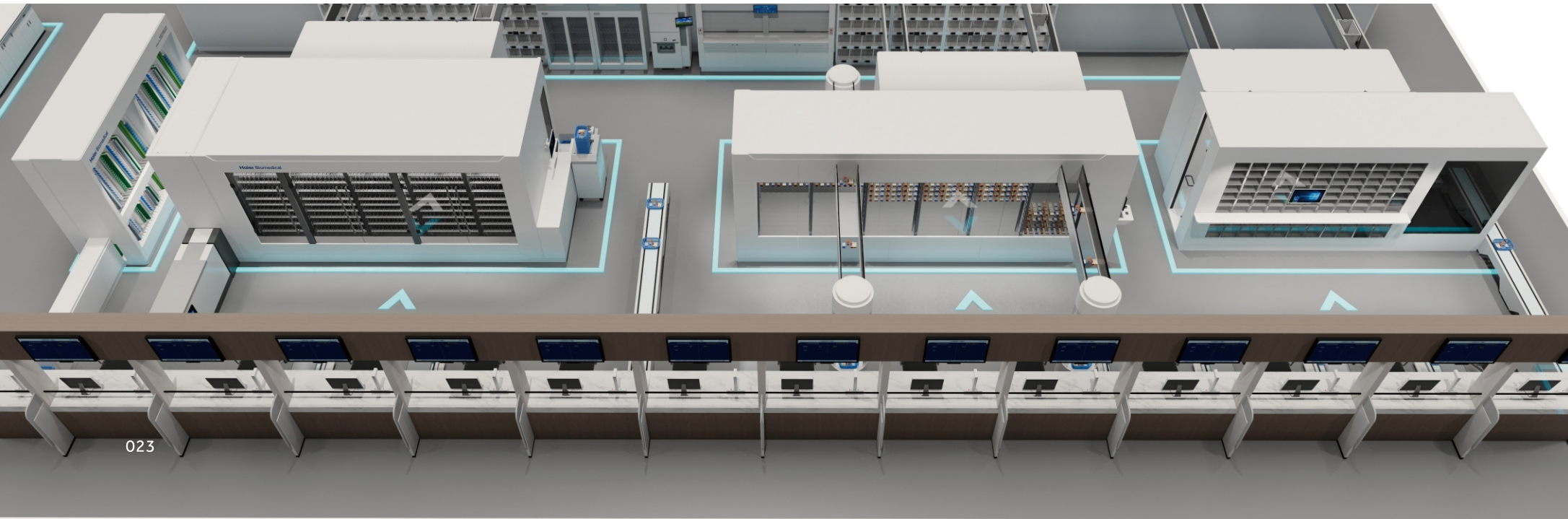
Free medical staff from manual labor
The equipment is deeply embedded in the drug dispensing section of the dispensers without slowing down operation efficiency, enabling fully unattended operation throughout the process.



Zero waiting time for patients
Traceability code acquisition and information correlation can be completed synchronously from prescription entry to drug dispensing, enabling glitch-free verification and maximum efficiency.

Conveyer System

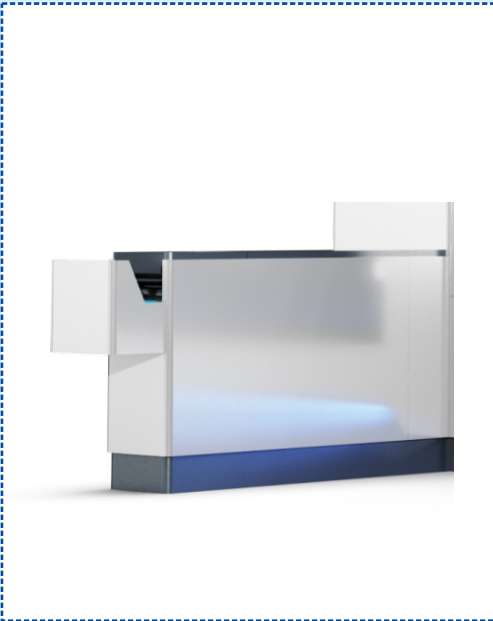
The conveyer system can automatically receive prescription data, realize directional window distribution for intelligent drug management, and real-time display of patient names on screen. It supports flexible distribution and transmission of prescriptions out of receiving sequence. It can work as an auxiliary unit for rapid dispensing systems or operate independently.



High-throughput spiral channel



Direct ground rail dispensing



Solution Advantages



Reduce manual intervention
Seamlessly interfaced with HIS; accurately conveying bound medicine baskets and displaying in real time on the screen, cutting down manual intervention throughout the whole process.



Efficient conveying
Dual-line structure prevents deviation, supports conveying of multiple prescriptions and improves conveying efficiency.



Stable and reliable
The ground rail features fixed conveying routes and stable operation to reduce the risk of medicine shaking.



Automatic window allocation
RFID automatically identifies medicine basket information and distributes windows without manual binding.

Precise conveying & efficient circulation

System collaboration & prescription processing

Receive data, convey precisely, and display information on screen in real time.

Intelligent identification & allocation

RFID automatically synchronizes and identifies information to allocate dispensing windows autonomously.

Basket recycling

Integrated sending and receiving design enables automatic circulation without manual operation.

Large-capacity buffer for orderly picking

Customizable buffer

The quantity of medicine basket buffers can be customized according to actual demands to fit pharmacy operation requirements.

Multi-prescription processing

Parallel processing of multiple medicine baskets, synchronous conveying without interference.

Intelligent warning for safety assurance

Full basket warning

Real-time monitoring of medicine basket buffer status and automatic warning.

Electrical safety

The system has passed withstand voltage and insulation tests for stable and reliable operation.

Self-service Pharmacy-related Equipment



Unattended Self-service Dispenser

It can be deployed in hospital lobbies, fever clinics, department entrances and other scenarios to support 24-hour self-service pickup of boxed medicines and injections.



Internal storage slots

- To improve dispensing efficiency, the drug storage module of the equipment shall be equipped with three independent dispensing modules (upper, middle and lower layers) that can work collaboratively for dispensing;
- The equipment features customizable design, allowing medicine receiving operations from the left, right, front, back and side, providing flexible options for hospitals.



Solution Advantages

- | | |
|--|---|
| <p>✔ Full-time service</p> <p>No staff on duty required, providing uninterrupted 24-hour dispensing service.</p> | <p>✔ Dispensing accuracy up to 99.9%</p> <p>Built-in high-frequency dispensing module ensures dispensing accuracy. Dispensing accuracy is up to 99.9%.</p> |
| <p>✔ Dispensing of multi-specification medicines</p> <p>It supports the storage and dispensing of boxed medicines and injections.</p> | |

Two core technologies



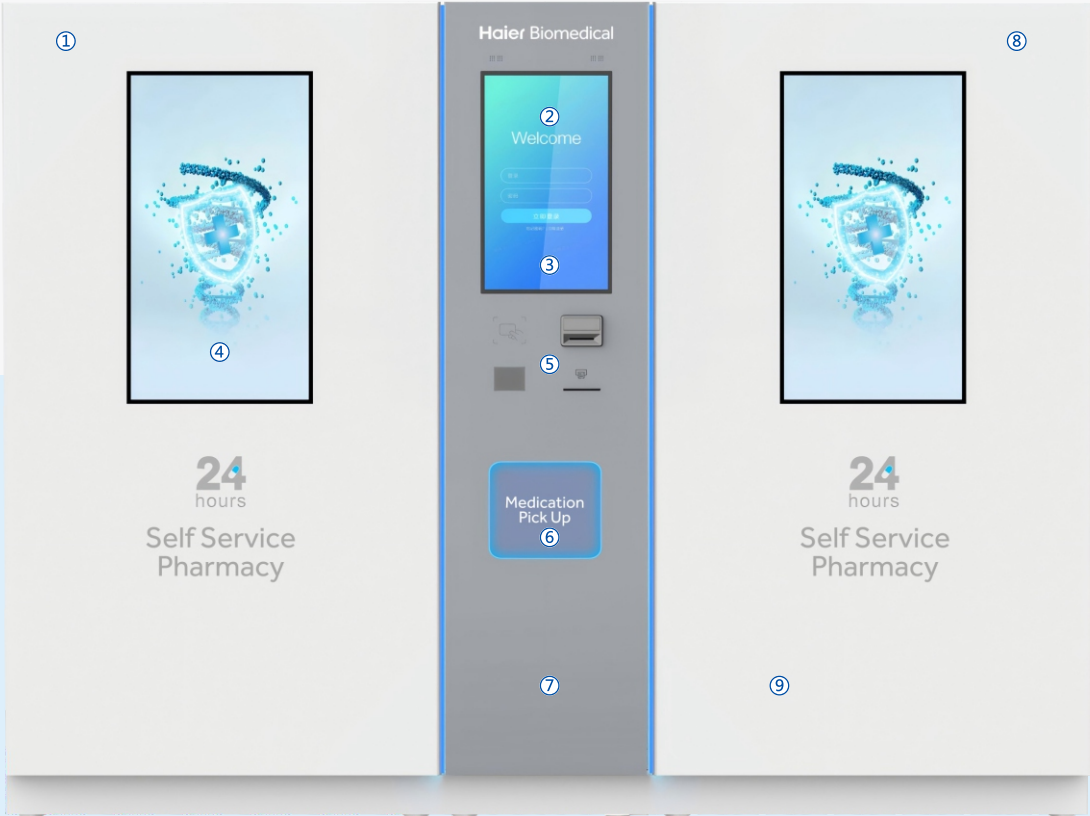
Visual verification



AI algorithm

24-Hour Self-service Pharmacy

The 24-hour self-service pharmacy adapts to all hospital scenarios and enables storage of room-temperature medicines as well as medicines requiring 2–8°C refrigeration. It has self-service dispensing function to enable 24-hour self-service medicine pickup for patients.

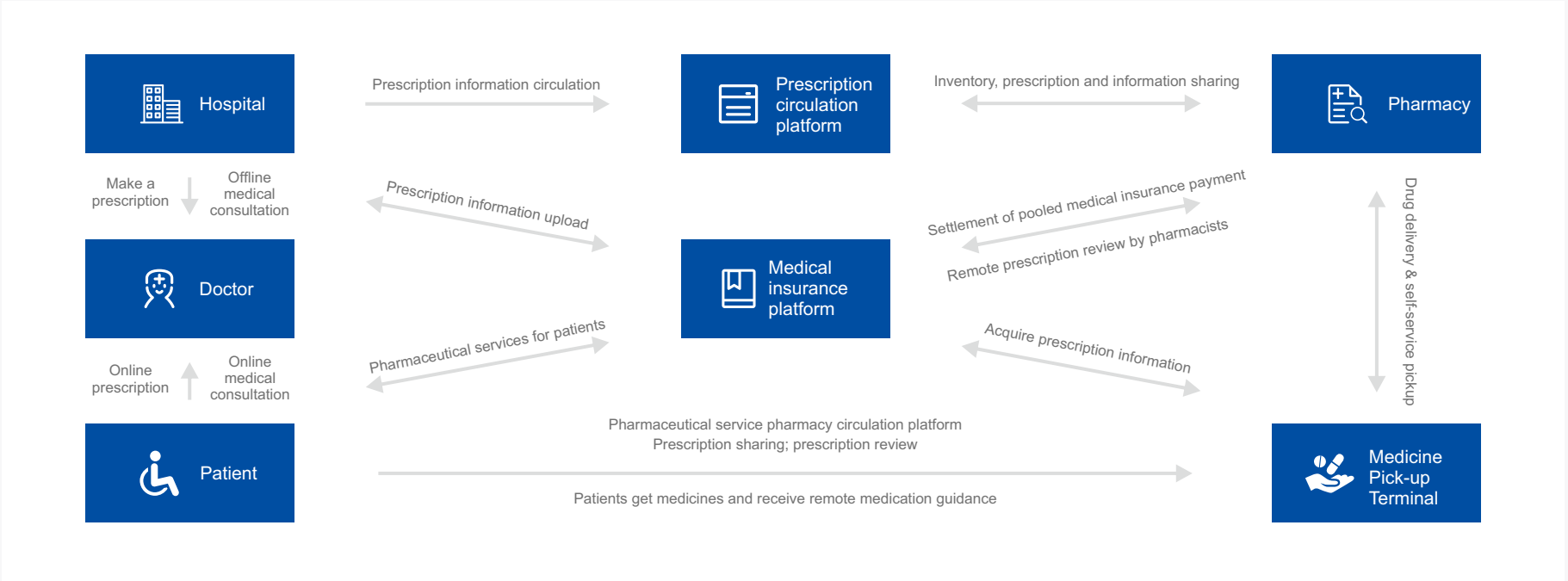


Product name

24-Hour Self-service Pharmacy

Product functions

- ① High-definition monitoring module
- ② Human-machine interaction terminal
- ③ Drug traceability module
- ④ Large screen or light box (optional)
- ⑤ Patient's prescription processing
- ⑥ Dispensing port
- ⑦ Abnormal medicine recycling bin
- ⑧ Drug storage module
- ⑨ Innovative mobile mechanical structure



Product Advantages

✓ Precision temperature-controlled storage

Adjustable multi-temperature zones (2-8°C /10-20°C)+ real-time temperature and humidity monitoring, ensuring safe drug storage.



✓ Full-chain drug traceability

Original drug supervision code tracing module automatically records drug information upon dispensing for full-time traceability and inquiry.



✓ Innovative mobile mechanical structure

The conveyer belt automatically receives drugs from both upper and lower positions, featuring anti-drop and smooth conveying to ensure zero damage to drugs.



Other Related Equipment

Product name

Intelligent Dispensing Machine (outpatient/IV)

Through three-dimensional storage and automatic addressing technology, drugs are precisely delivered to the pharmacist, enabling "drug-to-person" automation equipment.

Purpose: Used in the intelligent replenishment and preparation stage.



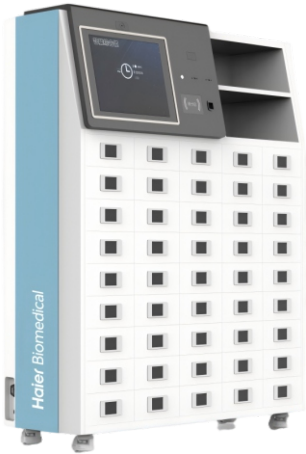
- ✓ Seamless integration with HIS/PIVAS systems, automatically receiving medical orders and precisely delivering drugs.
- ✓ Three-dimensional storage structure design, flexibly compatible with drugs of various specifications and types.
- ✓ Support both online and manual dual-mode operation, with full information recording and end-to-end traceability throughout the entire process.
- ✓ Built-in LED indicator lights for rapid and precise location of drugs.

Product name

Intelligent Injection Cabinet

An automatic storage device for fully enclosed storage and safe and efficient management of injection drugs.

Purpose: Used in the intelligent replenishment and preparation stage.



- ✓ Suitable for automatic dispensing of injection drugs.
- ✓ Support multi-unit hierarchical linkage, with the number of drug types expandable on demand.
- ✓ Fully enclosed drug storage, ensuring drug safety.
- ✓ Automatically record medication information and trace drug flow.

Product name

Guiding Shelf

A drug storage solution integrating digital storage, intelligent guidance, and precise management. Achieve visualization of drug information, guided operations, and refined management.

Purpose: Used in the intelligent replenishment and preparation stage.



- ✓ **Cloud connectivity:** It can be connected to PDA/PC terminals for drug shelving and inventory management.
- ✓ **Label illumination:** When dispensing, the label lights up, and the corresponding cabinet will illuminate.
- ✓ **PDA/barcode scanner:** Allow scanning to input product barcodes, eliminating the need for manual entry.
- ✓ **Movable shelf:** Indicator labels can be freely moved as needed.



Product name
Basket Dispenser

It automatically conveys empty medicine baskets to the dispensing outlet, while automatically binding prescription information, ensuring one-to-one correspondence among drugs, medicine baskets, and prescription data for guaranteed accuracy.

Purpose: Used in the automatic receiving stage for machine-dispensed drugs.

- ✓ Automatic medicine basket assignment
- ✓ Electronic identification for overall tracking
- ✓ Medical-grade material, lightweight and durable
- ✓ Improving efficiency and accuracy



Product name
Intelligent Medicine Basket

Information synchronization with the dispenser is achievable. The intelligent medicine baskets are equipped with RFID chips for linking prescriptions, drugs, and medicine baskets, ensuring accuracy.

Purpose: Used in the drug receiving and conveying stage.

- ✓ Automatic binding, one prescription per basket
- ✓ Medical-grade material, lightweight and durable
- ✓ Built-in RFID chip for prescription tracking



Product name
Desk-top Verification System

Equipment used for drug traceability code acquisition, an equipment system that monitors the entire process of drug production, distribution, and usage.

Purpose: Used in the front-desk dispensing stage for scanning traceability codes.

- ✓ Powerful scanning performance, meeting diverse needs
- ✓ Strong anti-interference capability, achieving stable and reliable operation
- ✓ Easy to assemble and disassemble, flexibly adapting to space
- ✓ Designed to fit hospital scenarios, convenient and practical



Product name
Self-service Registration Machine

Support identity recognition via ID card, medical insurance card, QR code, etc., enable quick registration, number retrieval, and receipt printing, optimize the queuing order for medicine pickup and reducing patient waiting time.

Purpose: Used in the patient queuing and registration stage

- ✓ Multiple medicine pickup methods (1D/2D barcode, ID card, medical insurance card, etc.)
- ✓ Capable of printing medicine pickup receipts
- ✓ Intelligent prevention of duplicate dispensing due to repeated scanning
- ✓ Designed to fit hospital scenarios, convenient and practical

List of Partners



Beijing Tsinghua Changgung Hospital



Shaanxi Provincial People's Hospital



Capital Institute of Pediatrics



Zhejiang Provincial People's Hospital



Sir Run Run Shaw Hospital
Zhejiang University School of Medicine



The Second Affiliated Hospital of Soochow University



Sichuan Provincial People's Hospital



Fujian Provincial Hospital



Guangdong General Hospital



Southern Hospital Baiyun Branch
Southern Medical University



Taikang Xianlin Drum Tower Hospital



Hubei Provincial Hospital of TCM



Shenzhen Third People's Hospital



The First Affiliated Hospital of Anhui Medical University



Xi 'an International Medical Center



The First Affiliated Hospital of Nanchang University



Jiangxi Provincial Maternal and Child Health Hospital



The Third Affiliated Hospital of Guangzhou Medical University



Children's Hospital of Chongqing Medical University



Nanjing Municipal Hospital of Traditional Chinese Medicine