



Laundry Management Solution

RFID IOT APPLICATION

Product Catalogue

Application process



Need Advice



Project Sales

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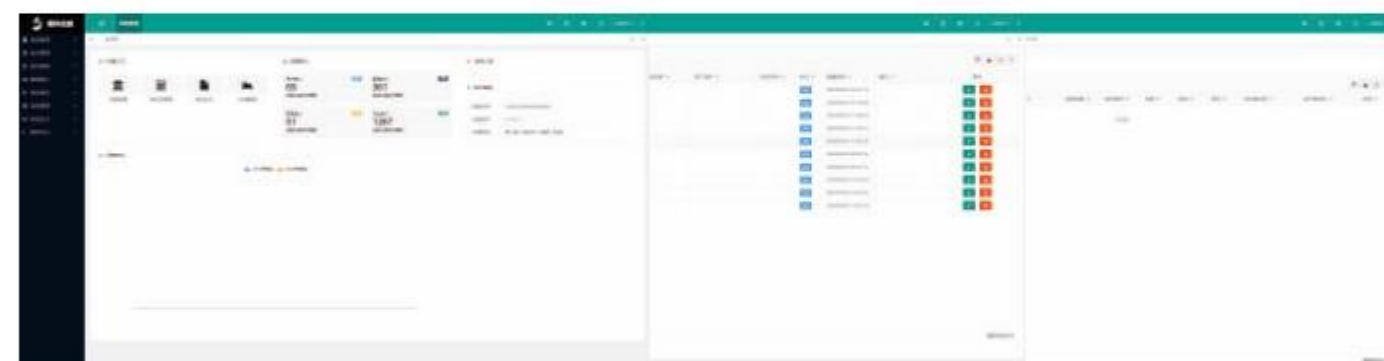


Overview of the Plan

By giving each piece of textile a unique RFID tag, starting from the textile put into use, until the textile is scrapped, RFID laundry management solution can realize the intelligent management of the entire life cycle of the textile, covering delivery, dispensing, return, handover, laundry, packing and sorting and other steps. Through RFID intelligent devices, the management of each steps to speed up the turnover speed, greatly improving management efficiency.



RFID Laundry Management Solution



Match RFID tag



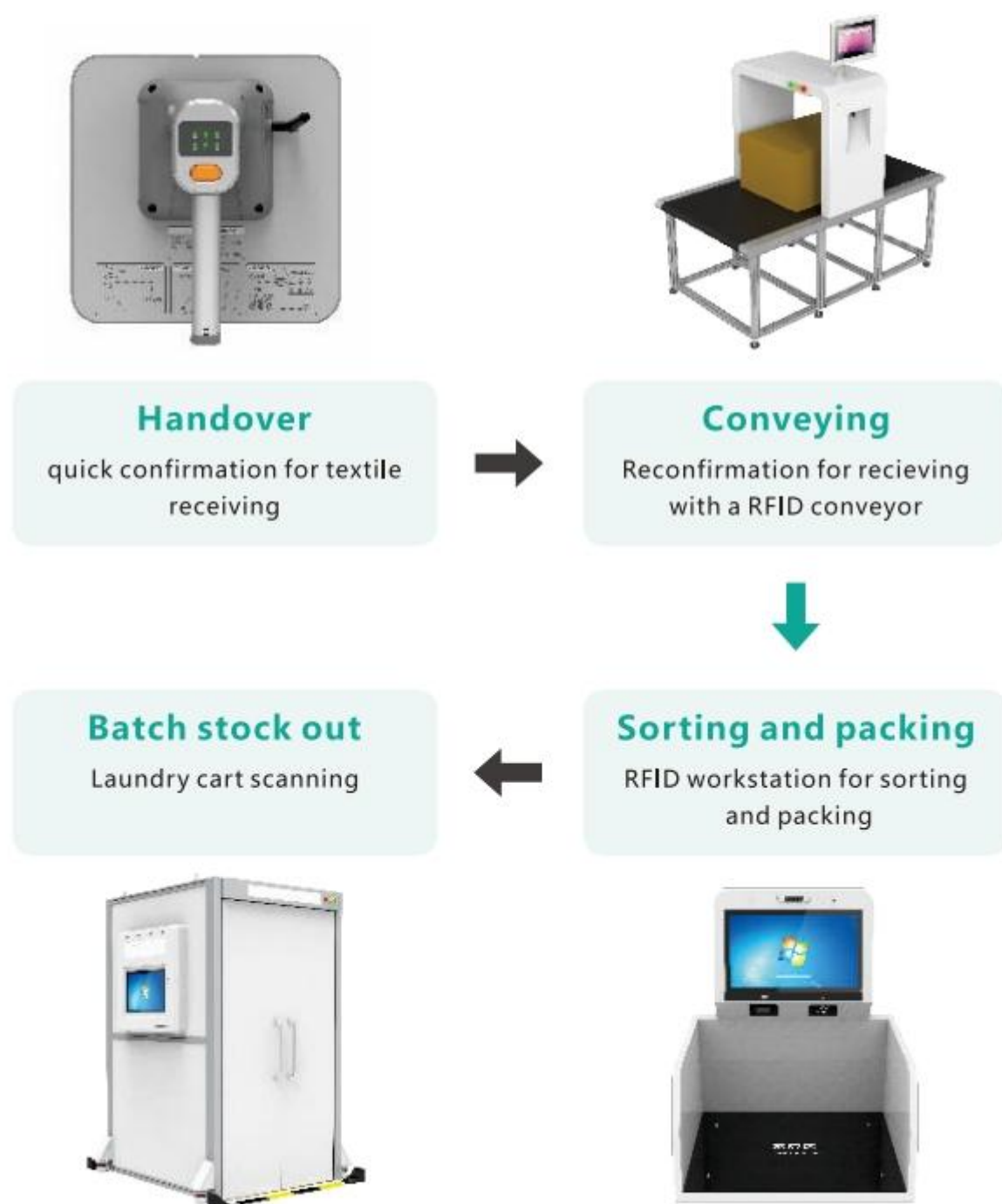
Item Name	EPC No.	Size	Date of first use	Owners
Scrub Top	E20191029041	S	2019-04-07	XXXXXXXXX

Enroll textile information



Laundry Factory Management

Laundry factories use RFID handhelds for quick handover and receipt of goods from the textile receiving. After the textiles are transported to the plant, an RFID conveyor will be needed for quick batch review. When Laundry is completed, sorting is performed by RFID sorting and packing stations. In the batch out of the warehouse, the use of RFID inventory cabinets on the textile cart for batch inventory review.



Handover Inventory Device

RFID handheld reader



Product Features

Good performance

It can work well even with soiled/ wet clothes.

Inventory speed

It can detect 200 pcs in 1 second.

Battery life

5600mAh battery capacity.

Integrated design

It has embedded reader and antenna with high gain.

Bluetooth

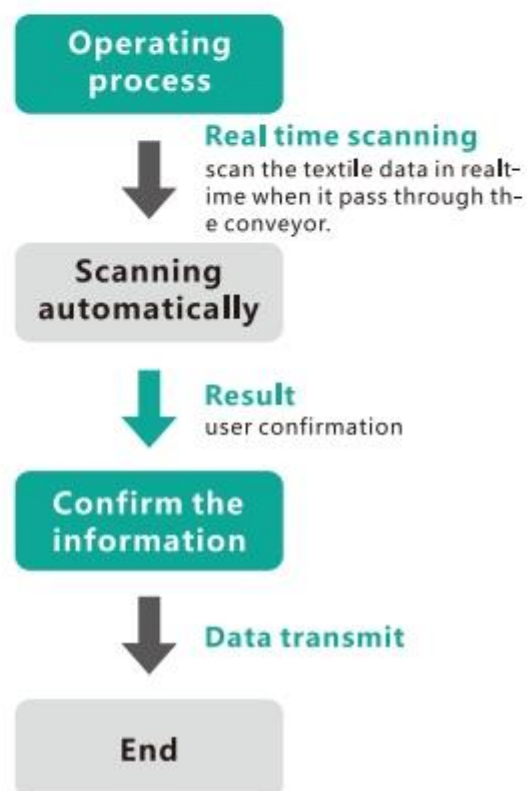
bluetooth communication with smart phone.

Production Specifications

reading speed	≥200pcs/s	communication	bluetooth
scanning mode	triggered by scanning button	antenna gain	9dBi
battery capacity	5600mAh	dimension	240mm*142mm*238mm

Laundry Receiving Confirmation Devices

RFID Conveyor



Product Features

Real time scanning

This equipment is suitable for inventory review in the front channel of manual sorting on the conveyer or to check the quantity of goods received.

Quick scan

scan the textile when they pass through the conveyor.

Easier confirmation

It has a 14" touch screen which allows people to check the scanning result immediately and import receiving list for confirmation.

Controllable

It can be connected to existing conveyor lines to maintain consistent speed.

High efficiency

opening design for better operation.

Textile quantity

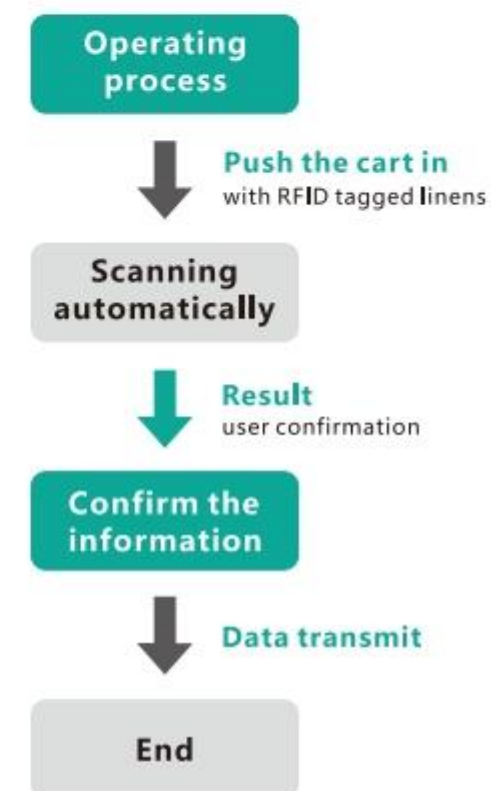
the users can import receiving list for confirmation.

Production Specifications

reading speed	≥50pcs/s	Scanning mode	real time scanning
Screen size	14" touch screen	RFID leakage	≤1.5m
Internal dimension	820mm*850mm*500mm	External dimension	930mm*900mm*500mm

Laundry Receiving Confirmation Devices

RFID box counting cabin



Product Features

Batch scanning

up to 400 pcs in one scanning.

Blocking performance

less than 30 cm.

Scanning cart

Equipped with mobile cart for easier operation.

Quick scanning

scanning within 10 seconds.

Cost effective

manual operation.

Auto scanning

triggered and scan automatically.

Production Specifications

Scanning speed	≥400pcs/s	Screen size	14" touch screen
Door	serve as scanning cart	RFID leakage	≤30cm
Internal dimension	640mm*700mm*1400mm	External dimension	760mm*834mm*1858mm

Device for Packing Confirmation

RFID Desktop Reader



Product Features

Desktop type

serial or Ethernet connection.

Multiple sizes

we provide such desktop reader in different sizes.

Production Specifications

Scanning qty	≥30 pcs/scan, within 3s	RFID leakage	≤50cm
Power	DC 12V 4A	Communication	USB/ Rs232
dimension	800mm*600mm*27mm		

RFID cart for Packing



Product Features

Mobility

Optional for battery for mobility.

Desktop

big table with RFID.

Production Specifications

Scanning qty	≥40 pcs/scan, within 3s	RFID leakage	≤50cm
Mobility	with wheels and optional for battery	Power	AC 220V/ 110V
dimension	800mm*700mm*850mm		

Device for Packing Confirmation

Packing Device A



Product Features

Integrated design

It is equipped with touch screen, face recognition and UHF table.

Concentrated scanning

embeded nearfield antenna.

Production Specifications

Scanning qty	≥50 pcs/scan, within 3s	RFID leakage	≤50cm
Access management	face recognition	Screen size	22" touch screen
dimension	800mm*630mm*782mm		

Packing Device B



Product Features

Batch scanning

up to 100pcs in each scan.

Shielding design

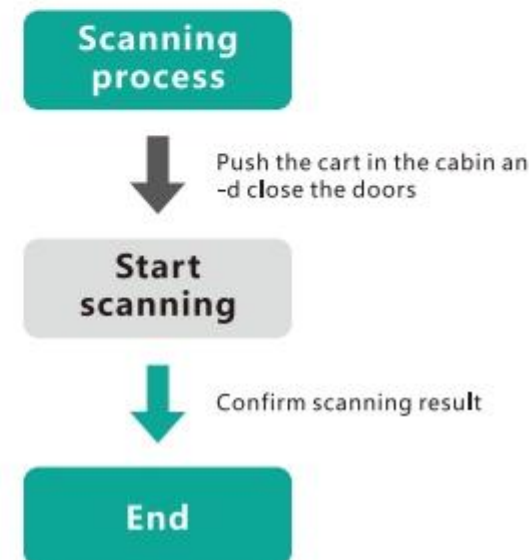
shielding design for better blocking and reading performance.

Production Specifications

Scanning qty	≥100 pcs/scan, within 3s	Screen size	22" touch screen
Access management	face recognition	RFID leakage	≤25cm
dimension	800mm*700mm*957mm		

Batch Check-out Devices

RFID Scanning Cabin- Manual Doors



Product Features

Batch scanning

up to 800pcs in each scan.

Cost effective

manually-open doors.

High reading performance

50times more than traditional method.

Quick scanning

scanning within 15s.

Small size

specially designed for laundry cart.

Auto Scanning

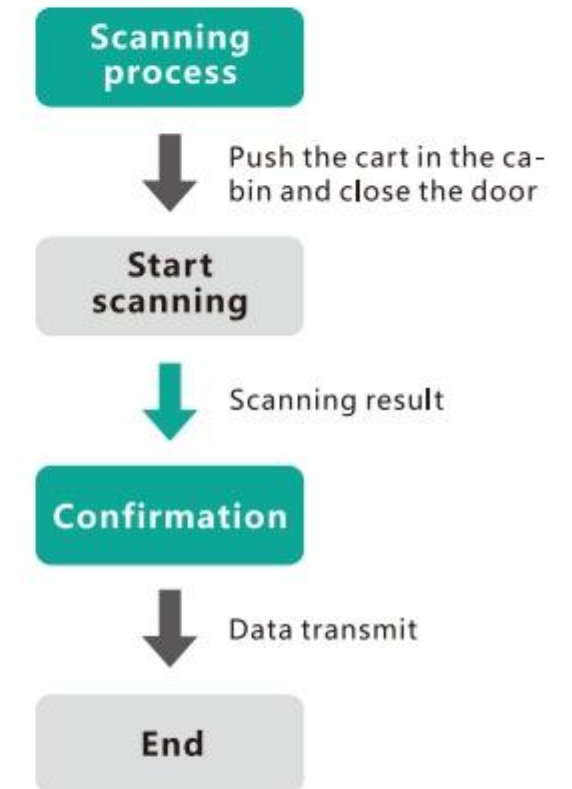
it will start scanning once the doors are closed.

Production Specifications

Scanning qty	≥800pcs	Screen	22"touch screen
Door	manually open	RFID leakage	≤30cm
Internal dimension	1300mm*1000mm*1990mm	External dimension	1450mm*1220mm*2200mm

Batch Check-out Devices

RFID Scanning Cabin- Auto Doors



Product Features

Quick operation

doors open in 3s.

Auto operation

auto doors and scan.

Bigger space

capable to support carts in different size.

Quick scanning

scan within 15s.

High reading performance

50times more than traditional method.

AGV

It can work with AGV to improve automation level.

Production Specifications

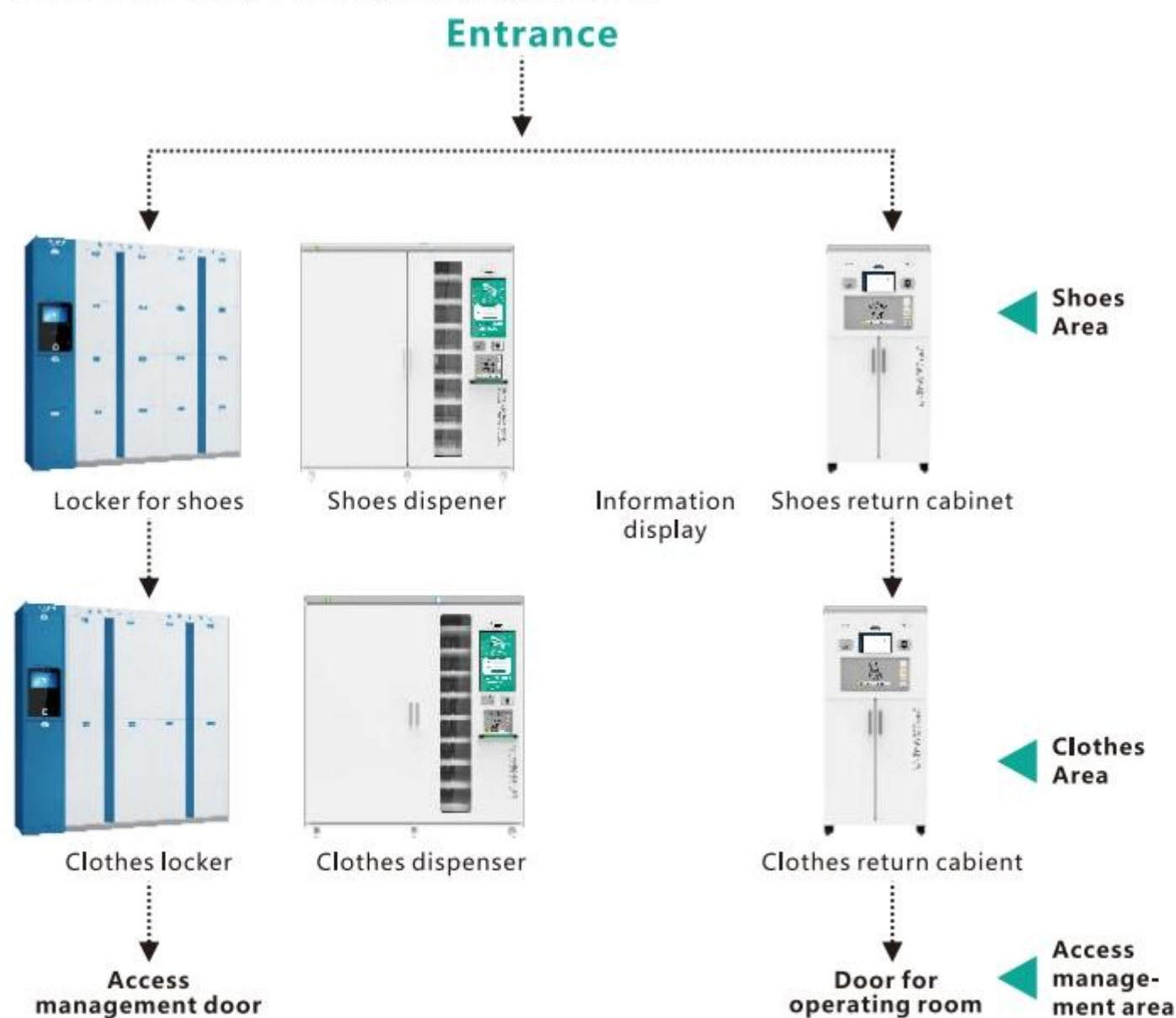
Scanning qty	≥800pcs	Screen	22"touch screen
Door	auto doors	RFID leakage	≤30cm
Internal dimension	1600mm*1260mm*2000mm	External dimension	1800mm*1680mm*2400mm

Laundry Management for the Operating Room

Intelligent management system for scrubs in the operating room enables the dispensing and returning through automated cabinets. It can replace the traditional mode of operating rooms using manual duty and manual dispensing of clothes.

Through automated dispensing and returning cabinets that can automatically identify clothes as well as intelligent lockers, it realizes full-process control over the use of medical scrubs, which can be detected in real time and replenished in a timely manner.

Clothing built-in RFID chip, can be issued with the clothes, returned real-time record of the user, use time, recycling time, etc.



Behavioral norms in the operating room

Prevent users from leaving the surgical area in gowns at will to reduce the risk of infection. If there is non-standard clothes return, alerts will be given when people obtaining new clothes from dispensers to guide behavioral norms.

Improve Efficiency

The dispensing speed is up to 3 seconds and it can assign the size to the user accordingly.

Reduce garment loss

By binding the users, the loss rate of hand-washing gowns and surgical shoes is dramatically reduced to less than 1%. Through informationized management and rational distribution, the inventory readiness of surgical gowns was reduced by 1/3.

Garment tracability

Through RFID tag, the process of clothing use can be traced; Single set of clothing dispensing through automated cabinet to ensure the cleanliness of garments and avoid pollution.

Composition of Operating Room Behavior Management System



Hospital intelligent operating room behavior management scenario

Clothes dispenser

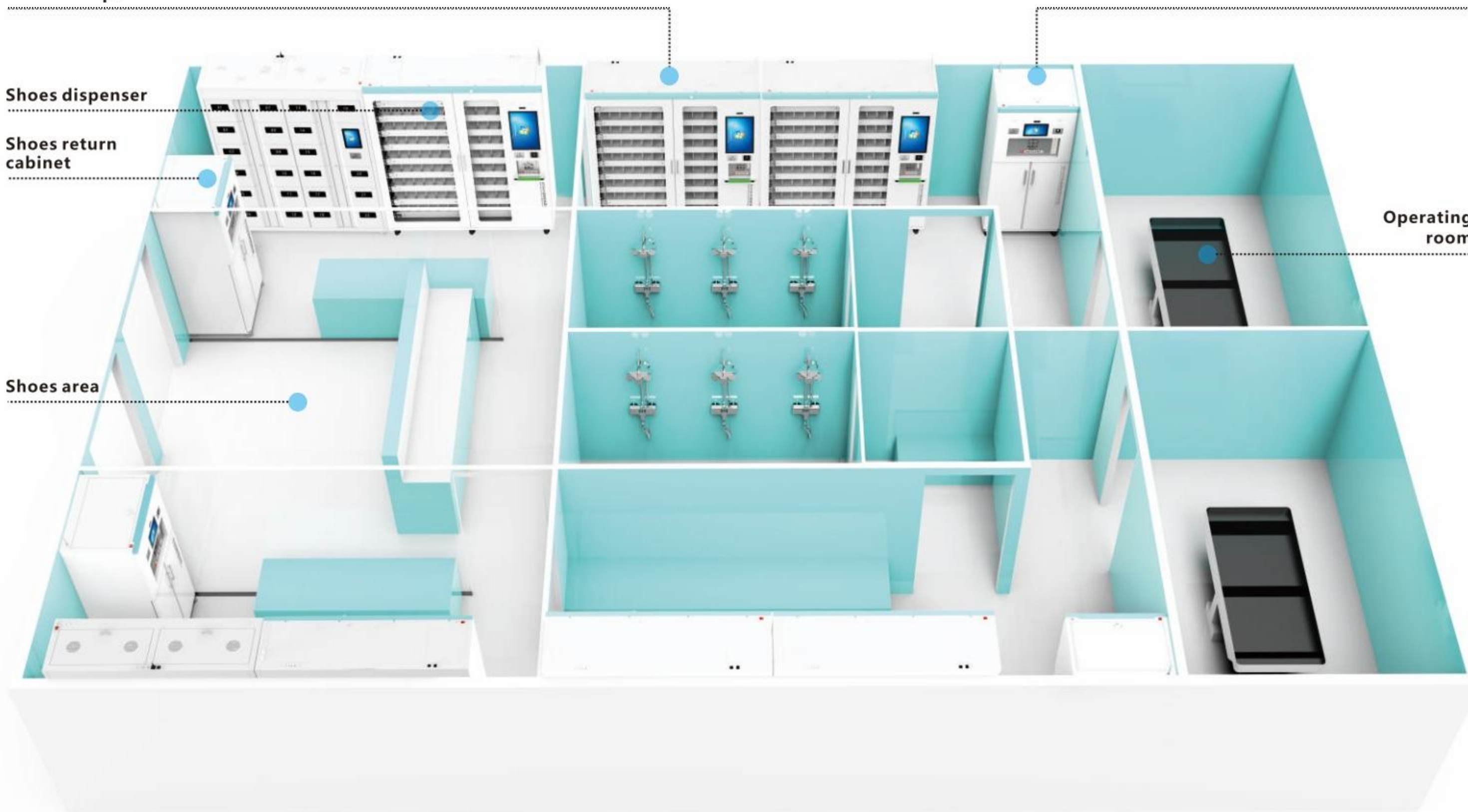
Clothes return cabinet

Shoes dispenser

Shoes return
cabinet

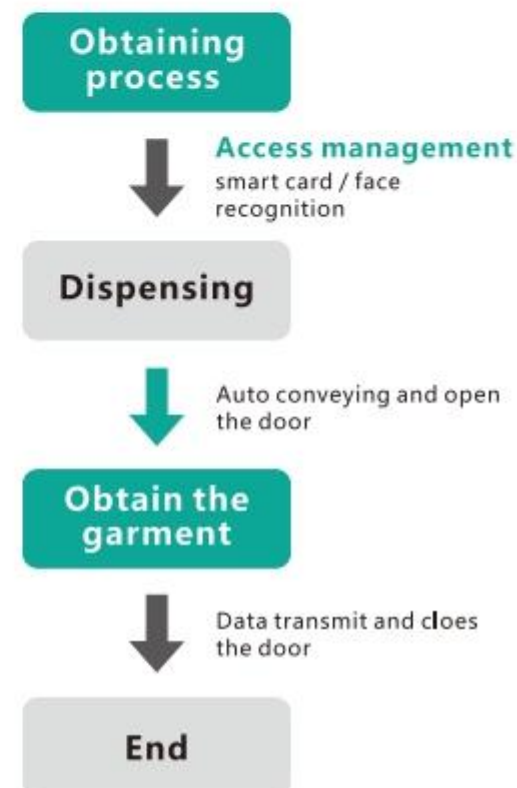
Shoes area

Operating
room



Garment Management for Operating Room

RFID garments dispensing/ return cabinet



Product Features

Access management

face recognition/ finger print/ smart card.

Quick dispensing

it can assign the size to the user accordingly.

Stock alerts

it will give alert to the manager if there stock is low.

Quick refill

folding and refilling will be easy and user friendly.

Less space needed

it is 60cm thick and suitable for narrow aisle.

Reasonable height for the dispensing door

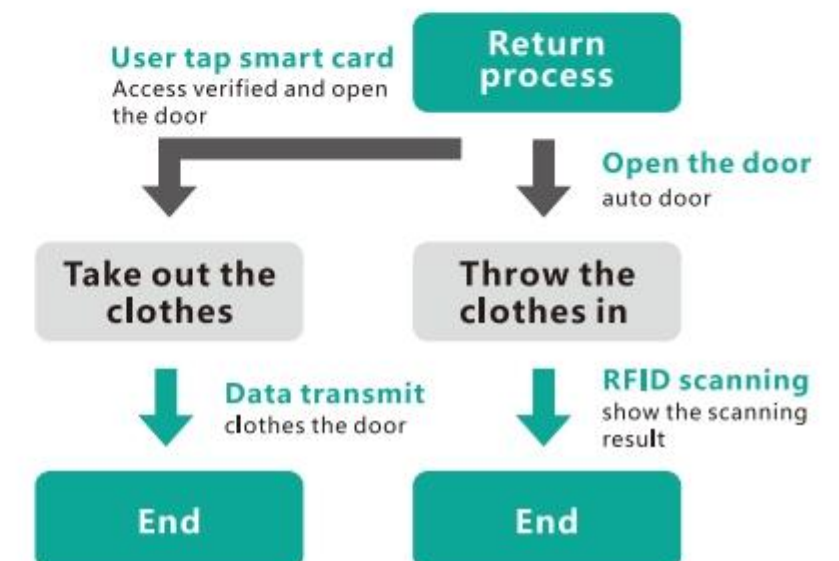
no need to bend or squat down when obtaining the clothes.

Production Specifications

Cabinet capacity	108 sets of clothes or 88 pairs of shoes	Screen size	22" touch screen
Dispensing speed	3-5s	RFID	supported
management	face recognition/finger print/smart card/user ID	dimension	1840mm*580mm*1990mm

Garment Management for Operating Room

RFID clothes return cabinet



Product Features

Display

10" touch screen showing the item informations.

Auto scan

Scanning and data transmit will be performed when the clothes are threw in it.

Full alerts

Alerts will be given once it is full then actions can be taken.

Auto door

It will open automatically when it detects the clothes at the door

Easy collecting

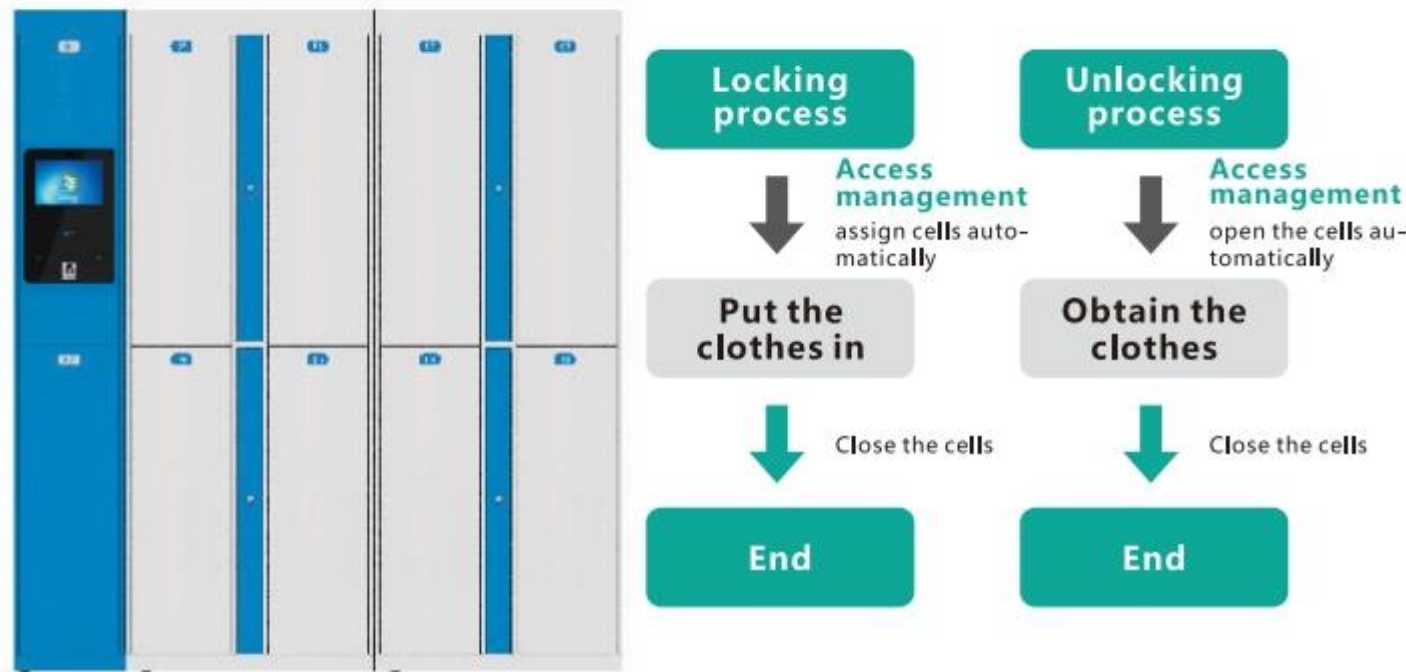
Open the door and pull out the clothes bag the just take it out.

Production Specifications

Cabinet capacity	60 sets of clothes / pairs of shoes	Screen size	10.1" touch screen
Return mode	auto open	RFID	RFID
management	smart card/ user ID	dimension	850mm*660mm*1840mm

Intelligent clothing management in hospital operating rooms

Clothes locker



Product Features

Auto assign

assign cells automatically for user.

Flexible configuratin

no limitation for the quantity of slave cabinets.

Access management

It help to assign and open the cells automatically.

High utilization

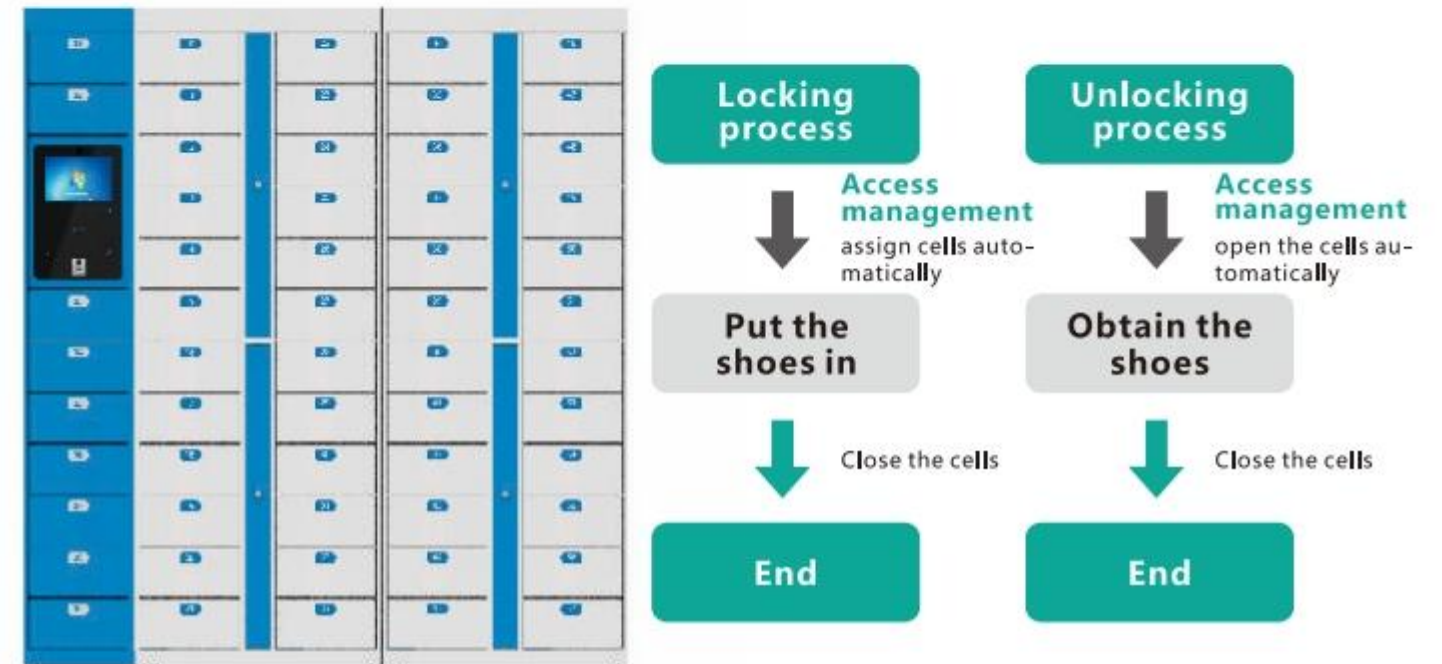
assign the cell by the system and keep the utilization.

Production Specifications

Cell qty	1 cell for master and 4 cells for slave	Screen size	10.1"touch screen
management	smart card/ user ID	Emergency key	supported
Master dimension	450mm*450mm*1800mm	Slave dimension	900mm*450mm*1800mm

Intelligent clothing management in hospital operating rooms

Shoes locker



Product Features

Auto assign

assign cells automatically for user.

Flexible configuratin

no limitation for the quantity of slave cabinets.

Access management

It help to assign and open the cells automatically.

High utilization

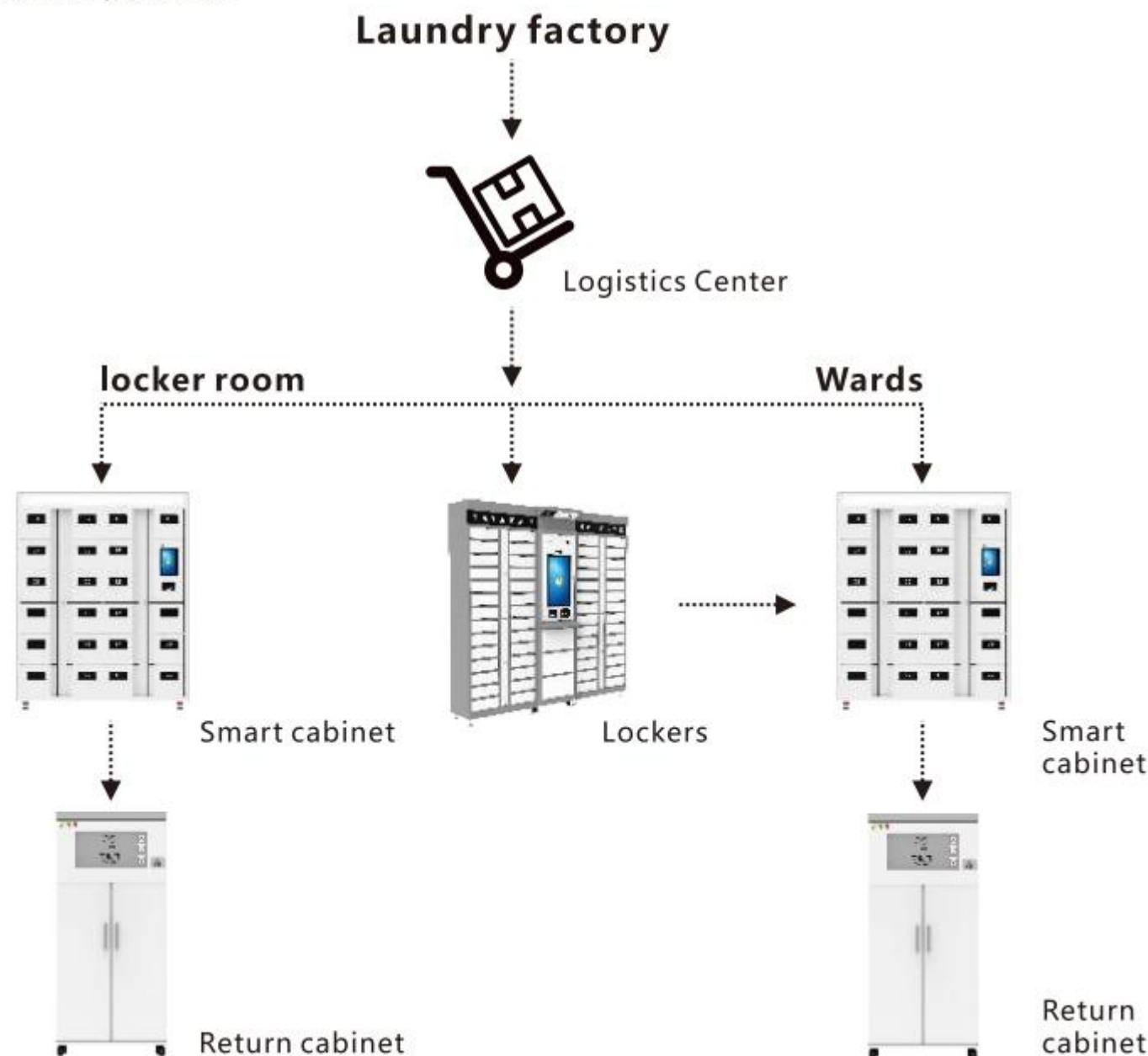
assign the cell by the system and keep the utilization.

Production Specifications

Cell qty	6 cell for master and 18 cells for slave	Screen size	10.1"touch screen
management	smart card/ user ID	Emergency key	supported
Master dimension	450mm*450mm*1800mm	Slave dimension	900mm*450mm*1800mm

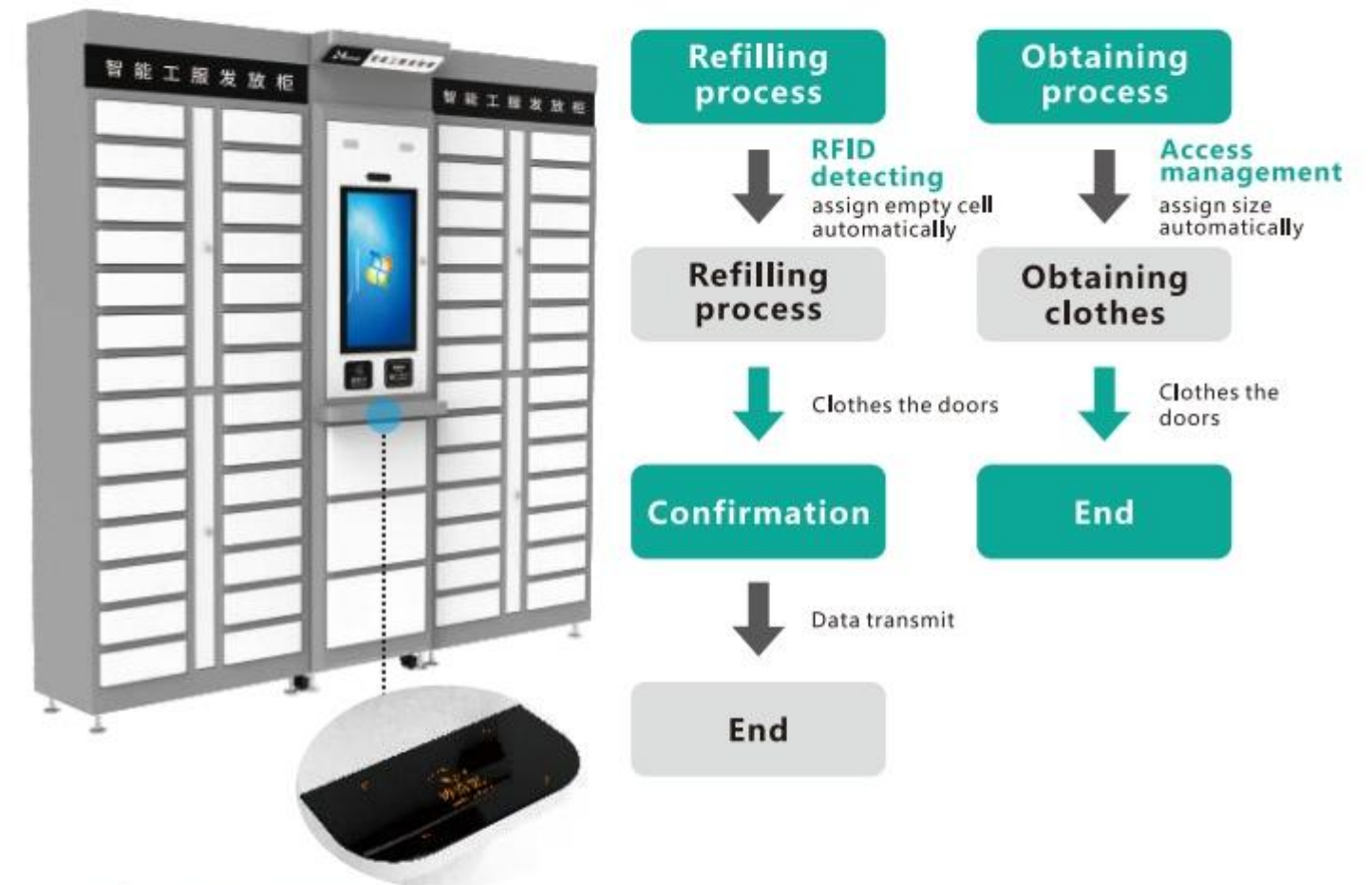
RFID Suits Management in Hospital

Hospital medical staff uniforms and inpatient fabrics can be intelligently managed using RFID. Users need to install RFID tags on each piece of cloth to uniquely identify the clothes, and through intelligent dispensing cabinet for self-service obtaining. Intelligent cabinet real-time monitoring of the state of use, and notify the laundry factory and distribution personnel, according to the use of timely replenishment. The self-service collection is convenient for 24-hour collection and replenishment without time constraints, standardized management, and convenient and fast operation.



Intelligent clothing management for hospital uniforms

Suits dispenser-A



Product Features

Auto assign
assign cells automatically for user.

Access management
It help to assign and open the cells automatically.

Flexible configuratin
no limitation for the quantity of slave cabinets.

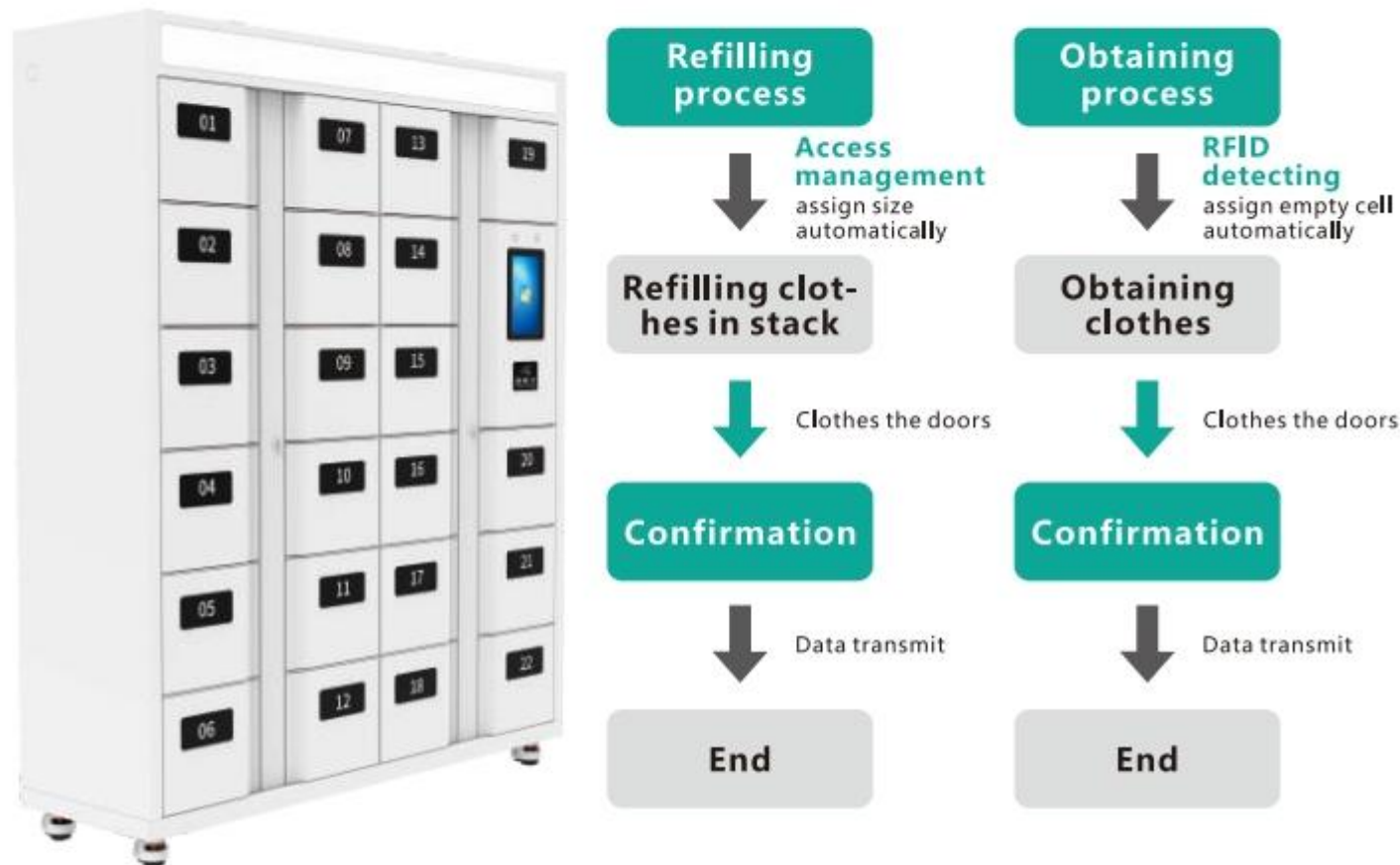
High utilization
assign the cell by the system and keep the utilization.

Production Specifications

Cell qty	6 cell for master and 28 cells for slave*2	Screen size	22"touch screen
management	smart card/ user ID	RFID	supported
Master dimension	500mm*500mm*2030mm	Slave dimension	780mm*340mm*2030mm

RFID Suits Management in Hospital

Suits dispenser-B



Product Features

Large capacity

It can contain multiple clothes in one cell.

Flexible configuratin

optional for slaves in different cell sizes.

Auto scan

Independent RFID in each cell.

Easy refilling

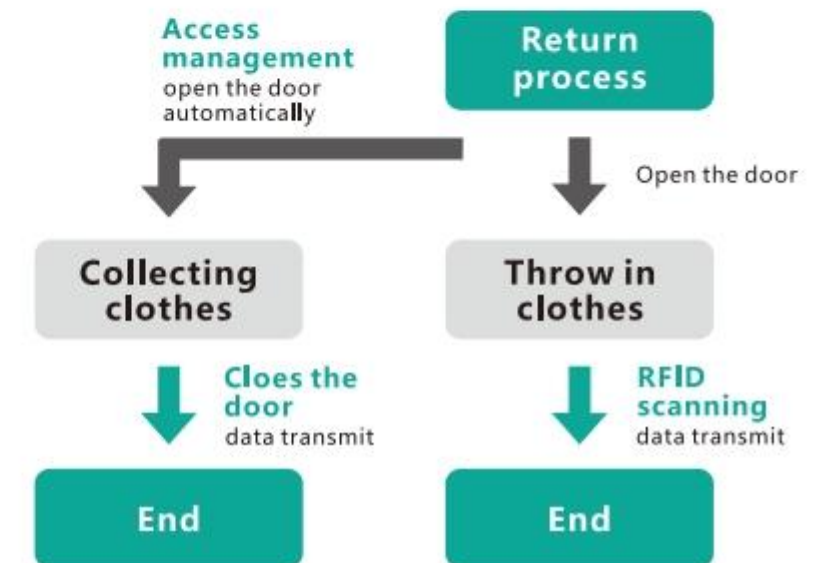
Refilling clothes in stack.

Production Specifications

Cell qty	up to 24 cells	Screen size	10.1" touch screen
management	smart card/ user ID	RFID	supported and independent RFID in each cell
Cell dimension	331mm*285mm*500mm	Slave dimension	1600mm*600mm*2030mm

RFID Suits Management in Hospital

Clothes return cabinet



Product Features

Maunal door

push and throw. Easy operation and cost effective.

Easy collecting

Open the door and pull out the clothes bag the just take it out.

Auto scanning

throw the clothes in and it will start scanning automatically

Full alerts

Alerts will be given once it is full t- hen actions can be taken.

Production Specifications

Capacity	≥50 sets	Indicator	Green-normal; Yellow-abnormal; Red-alarm
Return mode	manual	RFID	supported
management	Smart card	dimension	850mm*660mm*1840mm



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R & D Manufacturer

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