



# QDITC

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One-Stop Intelligent Logistics Warehousing Equipment Solution

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**Contact information:**  
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PART 01

# About Us



# ▶ Company Introduction



## QDITC Technology Co.,Ltd

QDITC was founded in 2015 and is located at Room 1116, 11th Floor, Building B, Phase III (South District) of Huguang Road Independent Innovation Industry Base, Shushan Economic and Technological Development Zone, Hefei City, Anhui Province CHINA. The main products include the integration of automated warehouse such as VLM(Vertical Lift Module && Storage System), VCM (Vertical Carousel Module && Storage System), VSM (Vertical Sorting Module && Storage System), Intellige...

QDITC is based on storage System, transportation, sporting automation and the corresponding intelligent management, focusing on standardized, modular, digital integrated software systems and equipment. The company adheres to the corporate culture of "working hard all day, thriving with virtue", always maintaining the concept of self-improvement and continuous innovation, and continuously creating value for customers. QDITC Intelligence will continuously provide high-speed, high stability, and cost-effective material management products, helping you quickly embrace the future of digitization and intelligence.



# Cultural concepts



**location**

**Intelligent Container Expert**

**idea**

**Integrity, professionalism,  
pragmatism, and innovation**

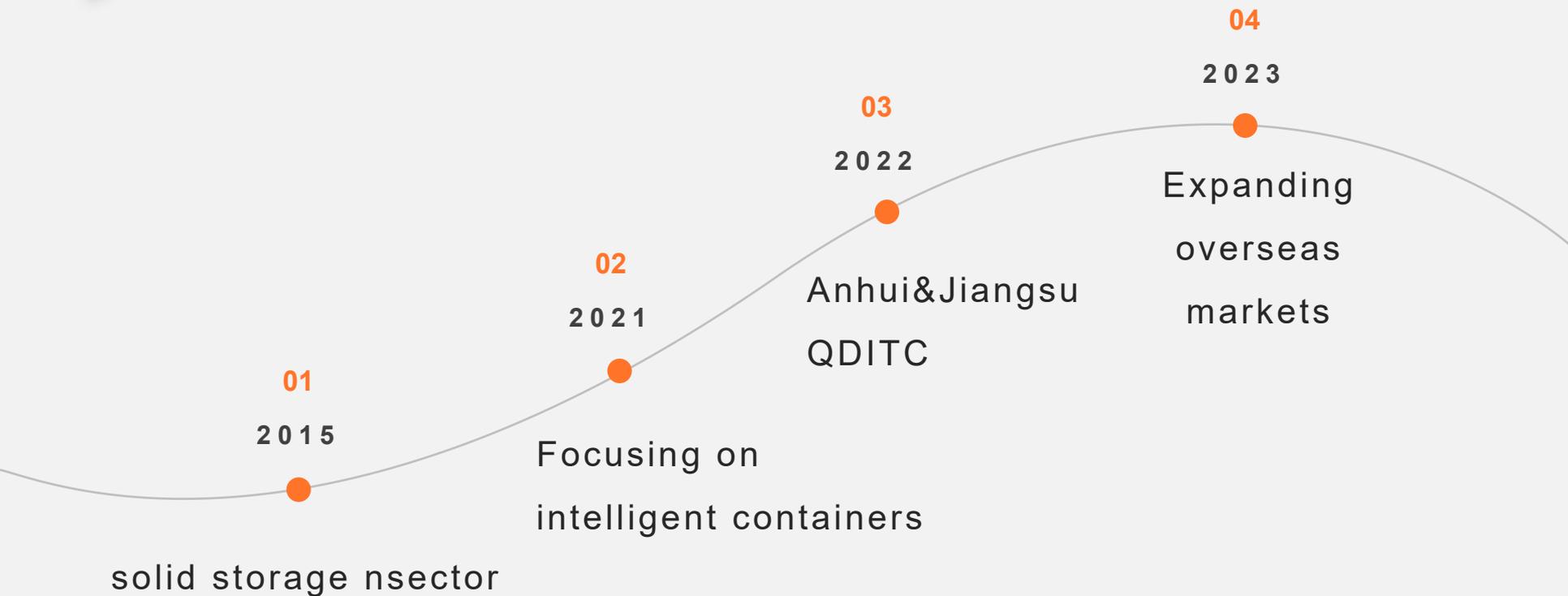
**target**

**Internationalization, branding, and  
specialization**

**mission**

**Achieve customers, brands,  
and employees**

# Development history





**Shushan District, Hefei**

Anhui QDITC



**Pukou District, Nanjing**

Jiangsu QDITC



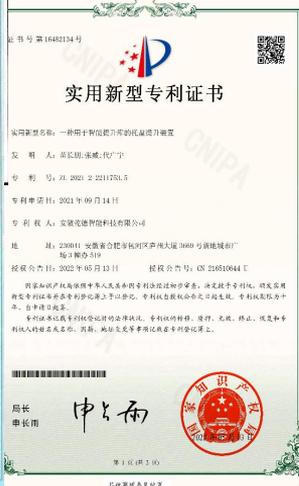
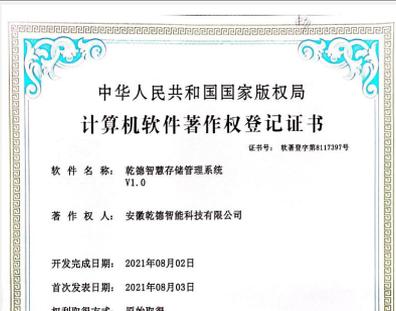
**Yu'an District, Lu'an City**

Manufacturing factory

## Qualifications and honors

These honors and certificates not only affirm the organization, but also serve as a spur and motivation for the organization. The acquisition of honorary qualifications is not only an honor, but also a responsibility and mission.



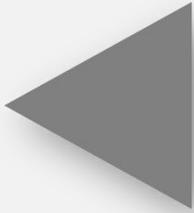


# Competitive edge



PART 02

**Hardware  
products**



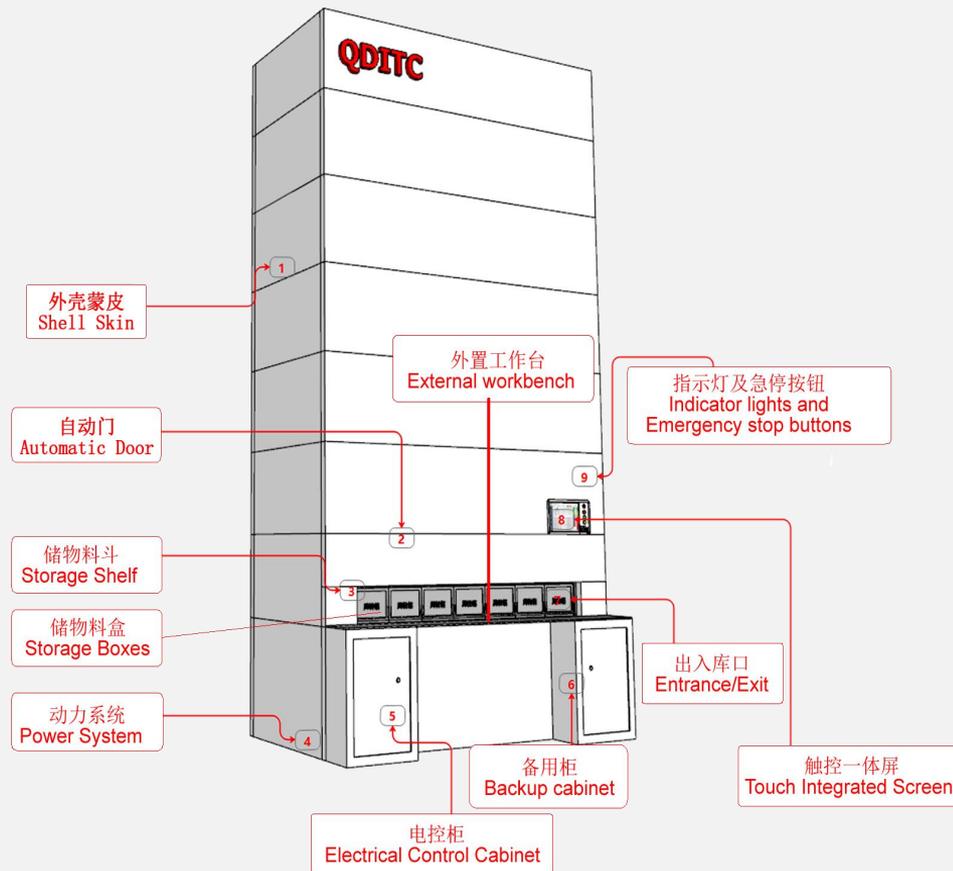
# Vertical Carousel Module (FX)



QDITC Vertical Rotary Container adopts standardized and modular design, cleverly and reasonably planning the space in the vertical direction. Design stable and reliable technology to maintain the balance of the storage hopper/shelf, accurately support the rotation of the hopper/shelf, and compress the storage capacity to the maximum, improving material storage by more than 90%.

Highly precise installation accuracy and design planning can achieve a height space of 13.5m for the entire equipment, achieving a bearing capacity of over 20 tons, and supporting the storage and irregular placement of various types of materials.

Design standardized rotating brackets to accommodate a wide range of hopper/shelf sizes, allowing for the storage of different hopper/shelves in the same container and adapting to the storage of materials of various sizes, effectively improving space utilization efficiency.





## Vertical Carousel Module/Storage—Fuxi

Based on the application scenario and the characteristics of stored items, design products according to the most suitable size and manage them through a professional material information system. Suitable for the storage and selection of various lightweight and standard size materials, widely used in factory tools, standard attachments, archival books, document materials, etc.

### Equipment characteristics:

1. More reasonable design, lower cost, faster efficiency, and more environmentally friendly;
2. Simple and excellent vertical rotation technology;
3. With numerous specifications, it can be used in a wider range of application scenarios;
4. Store more items in limited space;
5. Different standard turntables use different bins to store different items;
6. Various secure designs make equipment operate more stably, reliably, and safely.

# Vertical Carousel Module (FX)



选择乾德智能以前：杂乱的仓库/Without QDITC

选择乾德智能以后：规整的仓库/With QDITC



物料存储空间提升：90%以上/Space: Over 90%

拣选效率：30%以上/Efficiency: Over 30%



高效存取  
Efficient Access



改善环境  
Energy Conservation



兼容存放  
Compatible Storage



安全可靠  
Safe & Reliable



节省空间  
Save Space



省时省力  
Save Labor



接口灵活  
Flexible Interface

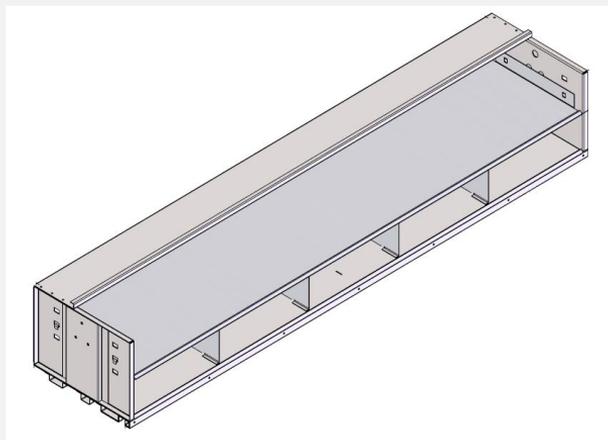
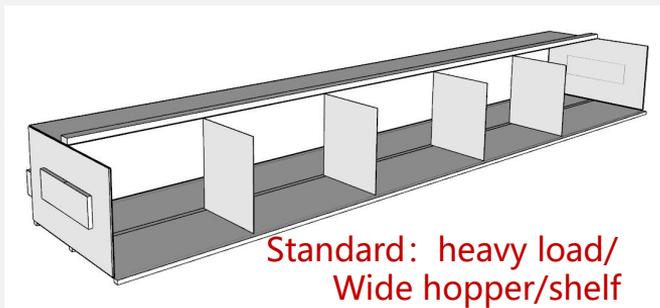


外观优美  
Beautiful Appearance

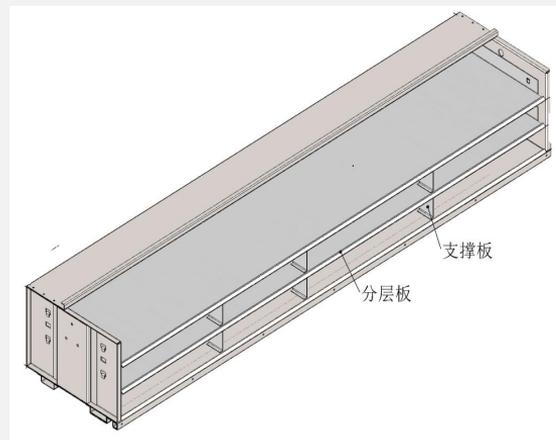
# Vertical Carousel Module (FX)



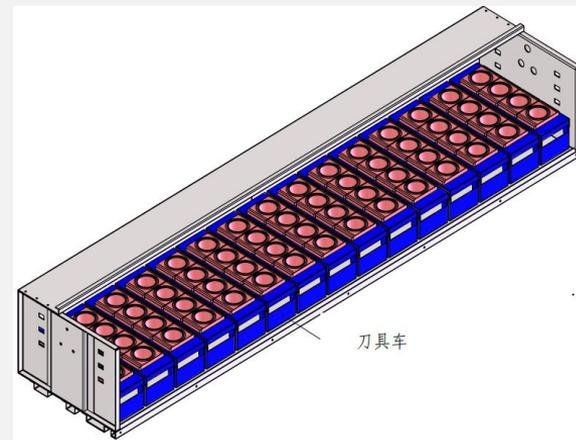
The split and multi-layer shared hopper/shelf design is compatible with the storage of materials of different sizes, achieving a transformation in material



Non standard: Double layer  
hopper/shelf



Non standard: Three layer hopper/shelf



Non standard: Knife handle, tool holder  
hopper/shelf

# Vertical Carousel Module (FX)



## 技术规格/Technical Specifications

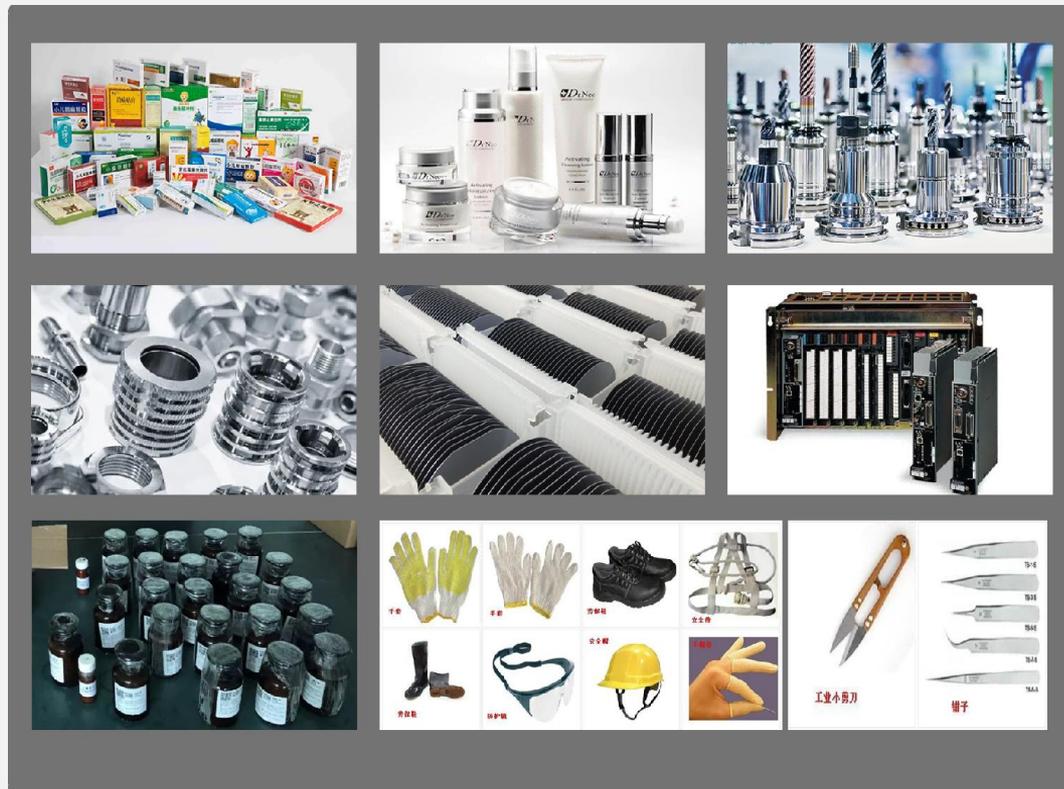
		Standard brand			
Equipment height	2,000mm-13,500mm	Access efficiency	30-60s (Depending on configuration)		
Operation interface	13.3-inch capacitive touch integrated screen	software function	implant stand-alone control system	reducer with a motor	DELTA/INOVANCE
positioning accuracy	± 3/5mm (Depending on configuration)		on-line system management	servo controller	DELTA/INOVANCE
Equipment self weight	300kg-5,500kg		Type of Materials setting	PLC	Seimens
hopper/shelf size	Customized according to material characteristics		stock management	sensor	SICK
Access port	Supports multiple access ports		Storage location management	Safety grating	Xi Ken
Maximum load capacity	25,000kg		purview management	encoder	Omron
Login method	password (Standard configuration) /IC card/ID card/fingerprint/face		order management	touch screen	Customized styles
safety protection	Standard configuration		Inventory management	low voltage electrical	Schneider
Automatic weighing	support, Optional		fault management	weight sensor (Optional configuration)	ZEMIC
Rotating power system	Servo control+laser positioning		hopper/shelf layout management	Height measuring grating (Optional configuration)	DELTA
Door power system	Servo control+laser positioning		ERP/MES and other System docking	Other	International high-quality

# Vertical Carousel Module (FX)

QDITC Fuxi Warehouse is not targeted at specific industries and is basically suitable for the storage and retrieval of the vast majority of materials, achieving intelligent storage of materials of different weights, sizes, heights, quantities, and specifications.

## Important application scenarios:

- ※ Cutting tools, tool holders, tools, molds (widely used in intelligent tool storage in the CNC machine tool industry)
- ※ Spare parts (widely used for intelligent storage of small, precision, and multi specification auxiliary materials, maintenance parts, and spare parts in the manufacturing process of various precision equipment)
- ※ 小Typed, multi variety experimental products, finished products, and semi-finished products (such as drugs, cosmetics, chemical reagents, soil samples, metal samples, etc.)
- ※ Electronic materials represented by semiconductors (such as wafers, PCB boards and circuit breakers, relays, PLCs, frequency converters, and other electronic components)
- ※ Labor protection equipment (with specific disinfection configurations, it can intelligently store commonly used labor protection equipment, making access convenient and fast)
- ※ Various materials that can be stored in standard vehicles



**Support external auxiliary equipment such as FFU/constant temperature and humidity machine/high-temperature furnace/refrigeration machine to store specific materials.**



# Vertical Carousel Module (FX)



## Vertical Carousel Module& System Model ——FX

No.	model	Shelf width (within mm)	Shelf depth (within mm)	Shelf height (within mm)	Shelf Load (kg)	VCM SIZE-no workbench		VCM SIZE- with workbench		VCMheight (mm)	Quantity (pcs)
						width: mm	depth: mm	width: mm	depth: mm		
<b>Vertical Carousel for Files</b>											
1-1	FX1910A	1420	240	340	50	1950	960	1950	1260	2650	10
1-2	FX1912A	1420	240	340	50	1950	960	1950	1260	3000	12
1-3	FX1914A	1420	240	340	50	1950	960	1950	1260	3450	14
1-4	FX1916A	1420	240	340	50	1950	960	1950	1260	3800	16
1-5	FX1918A	1420	240	340	50	1950	960	1950	1260	4150	18
<b>Vertical Carousel for Other</b>											
2-1	FX2630S	2120	410	235	100	2650	1330	2650	1630	5000	30
2-2	FX2636S	2120	410	235	100	2650	1330	2650	1630	6000	36
2-3	FX2646S	2120	410	235	100	2650	1330	2650	1630	7500	46
2-4	FX2630M	2120	410	235	300	2730	1380	2730	1680	5250	30
2-5	FX2636M	2120	410	235	300	2730	1380	2730	1680	6100	36
2-6	FX2646M	2120	410	235	300	2730	1380	2730	1680	7600	46
2-7	FX2742S	2058	319	130	100	2700	1130	2700	1430	4616	42
2-8	FX2944M	2298	209	152	150	2921	1030	2921	1330	4966	44

Support customization of various specifications, sizes, and models.

# ▶ Video Animation





## Vertical Lift Module/Storage ——Pangu

Based on the application scenario and the characteristics of stored items, design products according to the most suitable size and manage them through a professional material information system. Suitable for the storage and selection of molds, tools, raw materials, and heavy auxiliary materials, widely used in auxiliary production and line side warehouses.

### Equipment characteristics:

1. More reasonable design, lower cost, faster efficiency, and more environmentally friendly;
2. The design of composite wall panels is standard and compact;
3. High speed operation, quickly reaching the entrance and exit of the warehouse;
4. The storage capacity of a single tray is amazing, with a maximum of 1000kg/pcs;
5. Auxiliary material picking table, realizing the entry and exit of heavy materials and picking work;
6. Various secure designs make equipment operate more stably, reliably, and safely.

# Vertical Lift Module (PG)

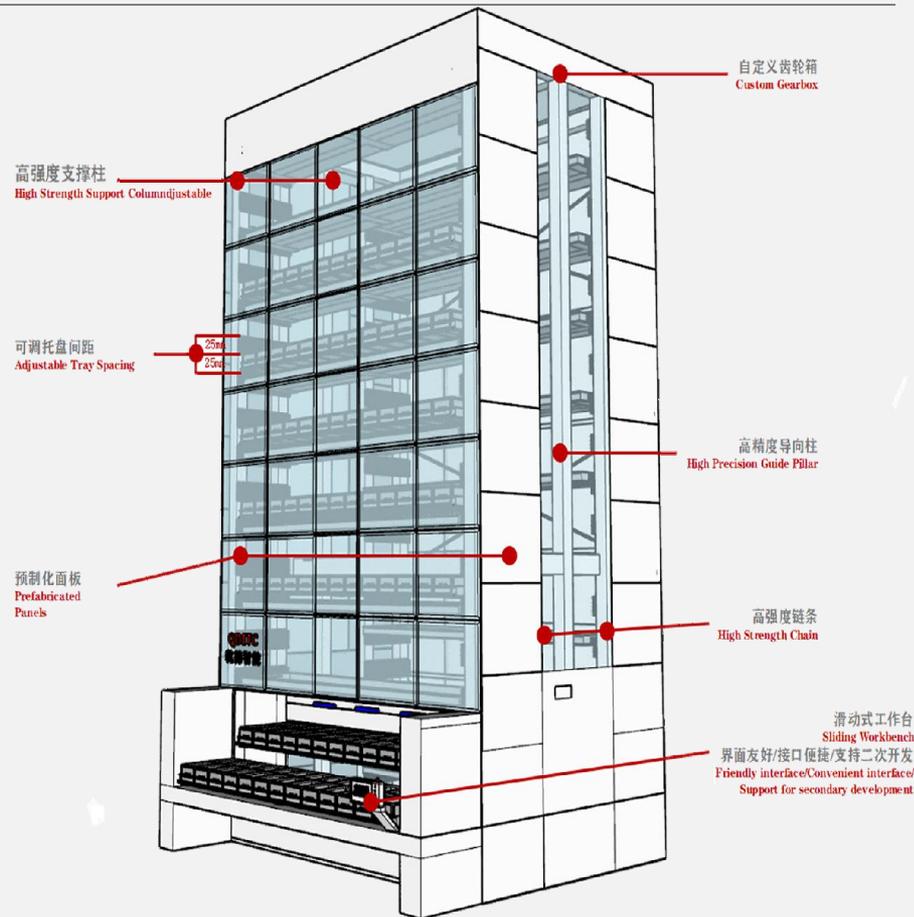


QDITC Vertical Lift Container adopts standardized and modular design, cleverly and reasonably planning the space in the vertical direction. Design to install an integrated tray bracket on the side of the column to accurately support the tray and maximize storage capacity, increasing material storage capacity by more than 90%.

High precision design and installation precision can achieve a height space of 36 meters for the entire equipment, achieving a bearing capacity of over 90 tons, and supporting the storage and irregular storage of various types of materials.

The integrated support bracket with a conventional 50mm step allows for more pallets to be stored in the same container and adapts to the storage of materials of various heights, effectively improving space utilization efficiency. Can support 25mm step storage.

The split tray design is compatible with the storage of materials of different sizes, achieving a transformation in material storage.



# Vertical Lift Module (PG)



节省空间  
Save Space



高效存取  
Efficient Access



省时省力  
Save Labor



改善环境  
Energy Conservation



安全可靠  
Safe & Reliable



兼容存放  
Compatible Storage



接口灵活  
Flexible Interface



外观优美  
Beautiful Appearance

# Vertical Lift Module (PG)



A cluttered warehouse/Without QDITC



存储空间提升:  $\geq 90\%$   
拣选效率提升:  $\geq 50\%$

A regular and tidy warehouse/With QDITC



Increase storage space by over 90%  
Picking efficiency increased by more than 50%

# Vertical Lift Module (PG)



Choose different deposit and extraction export configurations based on the actual application scenarios of the customer:

- ※ **Single layer built-in access port**
- ※ **Dual layer built-in access port(Standard configuration)**
- ※ **Single layer external access port**
- ※ **Double layer external access port**
- ※ **Double sided access port (built-in, external, single-layer, double-layer optional)**
- ※ **Cross layer access ports (built-in, external, single-layer, double-layer optional)**

The double-layer access port supports the simultaneous operation of two pallets, and the other pallet can achieve translation and lifting when the user picks up and places goods. After it is in place, it waits behind the automatic door.

External access ports are used for interactive use between Pangu lifting containers and external auxiliary equipment, such as robotic arms, AGVs, trusses, etc., to enhance the convenience and reliability of operation.

双层外置存取口/Double layer external access port 双层内置存取口/Double layer built-in access port



单层外置存取口/Single layer external access port 单层内置存取口/Single layer built-in access port



# Vertical Lift Module (PG)



QDITC Pangu Warehouse is not targeted at specific industries and is basically suitable for the storage and retrieval of the vast majority of materials, achieving intelligent storage of materials of different weights, sizes, heights, quantities, and specifications.

## Important application scenarios:

- ※ Cutting tools, tool holders, tools, molds, etc
- ※ Spare parts (including intelligent storage of various electronic, precision parts, multi specification auxiliary materials, maintenance parts, and spare parts)
- ※ Small scale, multi variety experimental products, finished products, and semi-finished products (such as drugs, cosmetics, chemical reagents, soil samples, metal samples, etc.)
- ※ Electronic materials represented by semiconductors (such as wafers, PCB boards and circuit breakers, relays, PLCs, frequency converters, and other electronic components)
- ※ Labor protection supplies (equipped with specific disinfection configurations, can intelligently store commonly used labor protection supplies, convenient and fast access)
- ※ Various materials that can be stored in standard vehicles

分割式托盘/Split tray



电子料托盘/Electronic material tray



镀锌托盘/Galvanized tray



不锈钢托盘/Stainless steel tray



**Support external auxiliary equipment such as FFU/constant temperature and humidity machine/high-temperature furnace/refrigeration machine to store specific materials.**

# Vertical Lift Module (PG)



## 技术规格/Technical Specifications

Equipment height	3,000mm-36,000mm	Access efficiency	30-60s (Depending on configuration)	Standard brand	
positioning accuracy	± 3/5mm (Depending on configuration)	Operation interface	13.3-inch capacitive touch integrated screen	servo reducer with a motor	DELTA/INOVANCE
Adjustable height spacing	25mm/50mm	Tray selection	Adapt according to equipment and material characteristics	servo controller	DELTA/INOVANCE
Storage height of materials	125mm-1,200mm	software function	implant stand-alone control system	Variable frequency motor reducer	Siemens
Equipment self weight	3,000kg-17,500kg		on-line system management	converter	Siemens
Maximum load capacity	90,000kg		stock management	PLC	Siemens
Automatic weighing	support, Optional		Storage location management	sensor	SICK
Automatic height measurement	support, Optional		purview management	Safety grating	Xi Ken
Login method	password (Standard configuration) /IC card/ID card/fingerprint/face		order management	encoder	Omron
safety protection	Standard configuration		Inventory management	touch screen	Customized styles
	Variable frequency speed regulation above		fault management	low voltage electrical	Schneider



# Vertical Lift Module (PG)



## Vertical Lifting Module – Pangu (PG)

N	Model	Tray Width (Outer, mm)	Tray Depth (Outer, mm)	Tray Border (Outer, mm)	Tray Load (kg)	Tray Width (Inner, mm)	Tray Depth (Inner, mm)	VLM Size	
								Width, mm	Depth, mm
1-1	PG1525S	1,560	655	75	250	1,516	612	2185	2595
1-2	PG1525M	1,560	855	75	250	1,516	812	2185	3135
1-3	PG1550S	1,560	655	75	500	1,516	612	2185	2595
1-4	PG1550M	1,560	855	75	500	1,516	812	2185	3135
1-5	PG1575S	1,560	655	75	750	1,516	612	2185	2595
1-6	PG1575M	1,560	855	75	750	1,516	812	2185	3135
1-7	PG1510S	1,520	655	125	1,000	1,476	612	2145	2595
1-8	PG1510M	1,520	855	125	1,000	1,476	812	2145	3135
2-1	PG1925S	1,960	655	75	250	1,916	612	2585	2595
2-2	PG1925M	1,960	855	75	250	1,916	812	2585	3135
2-3	PG1950S	1,960	655	75	500	1,916	612	2585	2595
2-4	PG1950M	1,960	855	75	500	1,916	812	2585	3135
2-5	PG1975S	1,960	655	125	750	1,916	612	2585	2595
2-6	PG1975M	1,960	855	125	750	1,916	812	2585	3135
2-7	PG1910S	1,920	655	125	1,000	1,876	612	2545	2595
2-8	PG1910M	1,920	855	125	1,000	1,876	812	2545	3135
3-1	PG2225S	2,260	655	75	250	2,216	612	2885	2595
3-2	PG2225M	2,260	855	75	250	2,216	812	2885	3135
3-3	PG2250S	2,260	655	75	500	2,216	612	2885	2595
3-4	PG2250M	2,260	855	125	500	2,216	812	2885	3135



# Vertical Lift Module (PG)



## Vertical Lifting Module – Pangu (PG)

N	Model	Tray Width (Outer, mm)	Tray Depth (Outer, mm)	Tray Border (Outer, mm)	Tray Load (kg)	Tray Width (Inner, mm)	Tray Depth (Inner, mm)	VLM Size	
								Width, mm	Depth, mm
3-5	PG2275S	2,260	655	125	750	2,216	612	2885	2595
3-6	PG2275M	2,260	855	125	750	2,216	812	2885	3135
3-7	PG2210S	2,220	655	125	1,000	2,176	612	2845	2595
3-8	PG2210M	2,220	855	125	1,000	2,176	812	2845	3135
4-1	PG2525S	2,560	655	75	250	2,516	612	3185	2595
4-2	PG2525M	2,560	855	75	250	2,516	812	3185	3135
4-3	PG2550S	2,560	655	125	500	2,516	612	3185	2595
4-4	PG2550M	2,560	855	125	500	2,516	812	3185	3135
4-5	PG2575S	2,560	655	125	750	2,516	612	3185	2595
4-6	PG2575M	2,560	855	125	750	2,516	812	3185	3135
4-7	PG2510S	2,520	655	125	1,000	2,476	612	3145	2595
4-8	PG2510M	2,520	855	125	1,000	2,476	812	3145	3135
5-1	PG2825S	2,860	655	75	250	2,816	612	3485	2595
5-2	PG2825M	2,860	855	75	250	2,816	812	3485	3135
5-3	PG2850S	2,860	655	125	500	2,816	612	3485	2595
5-4	PG2850M	2,860	855	125	500	2,816	812	3485	3135
5-5	PG2875S	2,860	655	125	750	2,816	612	3485	2595
5-6	PG2875M	2,860	855	125	750	2,816	812	3485	3135
5-7	PG2810S	2,820	655	125	1,000	2,776	612	3445	2595
5-8	PG2810M	2,820	855	125	1,000	2,776	812	3445	3135

# Vertical Lift Module (PG)



## Vertical Lifting Module – Pangu (PG)

N	Model	Tray Width (Outer, mm)	Tray Depth (Outer, mm)	Tray Border (Outer, mm)	Tray Load (kg)	Tray Width (Inner, mm)	Tray Depth (Inner, mm)	VLM Size	
								Width, mm	Depth, mm
6-1	PG3125S	3,160	655	125	250	3,116	612	3785	2595
6-2	PG3125M	3,160	855	125	250	3,116	812	3785	3135
6-3	PG3150S	3,160	655	125	500	3,116	612	3785	2595
6-4	PG3150M	3,160	855	125	500	3,116	812	3785	3135
6-5	PG3175S	3,160	655	125	750	3,116	612	3785	2595
6-6	PG3175M	3,160	855	125	750	3,116	812	3785	3135
6-7	PG3110S	3,120	655	125	1,000	3,076	612	3745	2595
6-8	PG3110M	3,120	855	125	1,000	3,076	812	3745	3135
7-1	PG3325S	3,360	655	125	250	3,316	612	3985	2595
7-2	PG3325M	3,360	855	125	250	3,316	812	3985	3135
7-3	PG3350S	3,360	655	125	500	3,316	612	3985	2595
7-4	PG3350M	3,360	855	125	500	3,316	812	3985	3135
7-5	PG3375S	3,360	655	125	750	3,316	612	3985	2595
7-6	PG3375M	3,360	855	125	750	3,316	812	3985	3135
7-7	PG3310S	3,320	655	150	1,000	3,276	612	3945	2595
7-8	PG3310M	3,320	855	150	1,000	3,276	812	3945	3135
8-1	PG3625S	3,660	655	125	250	3,616	612	4285	2595
8-2	PG3625M	3,660	855	125	250	3,616	812	4285	3135
8-3	PG3650S	3,660	655	125	500	3,616	612	4285	2595
8-4	PG3650M	3,660	855	125	500	3,616	812	4285	3135

# Vertical Lift Module (PG)



## Vertical Lifting Module – Pangu (PG)

N	Model	Tray Width (Outer, mm)	Tray Depth (Outer, mm)	Tray Border (Outer, mm)	Tray Load (kg)	Tray Width (Inner, mm)	Tray Depth (Inner, mm)	VLM Size	
								Width, mm	Depth, mm
8-5	PG3675S	3,660	655	125	750	3,616	612	4285	2595
8-6	PG3675M	3,660	855	125	750	3,616	812	4285	3135
8-7	PG3610S	3,620	655	150	1,000	3,576	612	4245	2595
8-8	PG3610M	3,620	855	150	1,000	3,576	812	4245	3135
9-1	PG4125S	4,160	655	125	250	4,116	612	4785	2595
9-2	PG4125M	4,160	855	125	250	4,116	812	4785	3135
9-3	PG4150S	4,160	655	125	500	4,116	612	4785	2595
9-4	PG4150M	4,160	855	125	500	4,116	812	4785	3135
9-5	PG4175S	4,160	655	125	750	4,116	612	4785	2595
9-6	PG4175M	4,160	855	125	750	4,116	812	4785	3135
9-7	PG4110S	4,120	655	150	1,000	4,076	612	4745	2595
9-8	PG4110M	4,120	855	150	1,000	4,076	812	4745	3135
<b>VLM (Customized)</b>									
X-1	250KG级	3,060	855	125	250	3,016	812	3685	3165
X-2	500KG级	3,060	855	125	500	3,016	812	3685	3165
X-3	750KG级	3,060	855	125	750	3,016	812	3725	3165
X-4	1000KG级	3,060	855	125	1,000	3,016	812	3725	3165

# Video animation



乾德智能仓储

入库管理

添加入库单

入库单管理

出库管理

盘点管理

库存台账

基础设置

系统设置

物料名称  物料代号  供应商

时间  -  入库人员

物料大类

- 挡风板类
- 挡风板类
- 深沟球轴承

入库单号	产品名称	入库时间	操作人员	状态	操作
601651082100001	挡风板类	2022-09-08 16:04	客户测试	未开始	<input type="button" value="查"/> <input type="button" value="删"/>
601651081100001	挡风板类	2022-08-05 17:24	系统管理员	未开始	<input type="button" value="查"/> <input type="button" value="删"/>
t202207151724390004	挡风板类	2022-07-21 10:27	admin	已完成	<input type="button" value="删"/>
t202207151724390004	挡风板类	2022-07-21 10:27	admin	已完成	<input type="button" value="删"/>
t202207151724390004	挡风板类	2022-07-21 10:27	admin	执行中	<input type="button" value="删"/>
t202207151724390004	挡风板类	2022-07-21 10:27	admin	执行中	<input type="button" value="删"/>
t202207151724390004	挡风板类	2022-07-20 11:01	admin	已完成	<input type="button" value="删"/>
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< 1 > 到第 1 页 确定 共 8 条 10 条/页

乾德智能智慧仓储管理系统具备嵌入式单机操作与联机接口功能



## Vertical Sort Module/Storage ——Shennong

The intelligent vertical lifting sorting library has the same principle and function as the miniLoad three-dimensional warehouse. It divides the storage unit horizontally into several units, determines the width and depth of the storage unit based on the size of the material box, and uses the support on both sides to fix the material box. It not only has the functions of lifting the warehouse up and down, as well as forward and backward translational movements, but also achieves automatic storage and retrieval of the material box by moving the cart horizontally, left and right.

### Equipment characteristics:

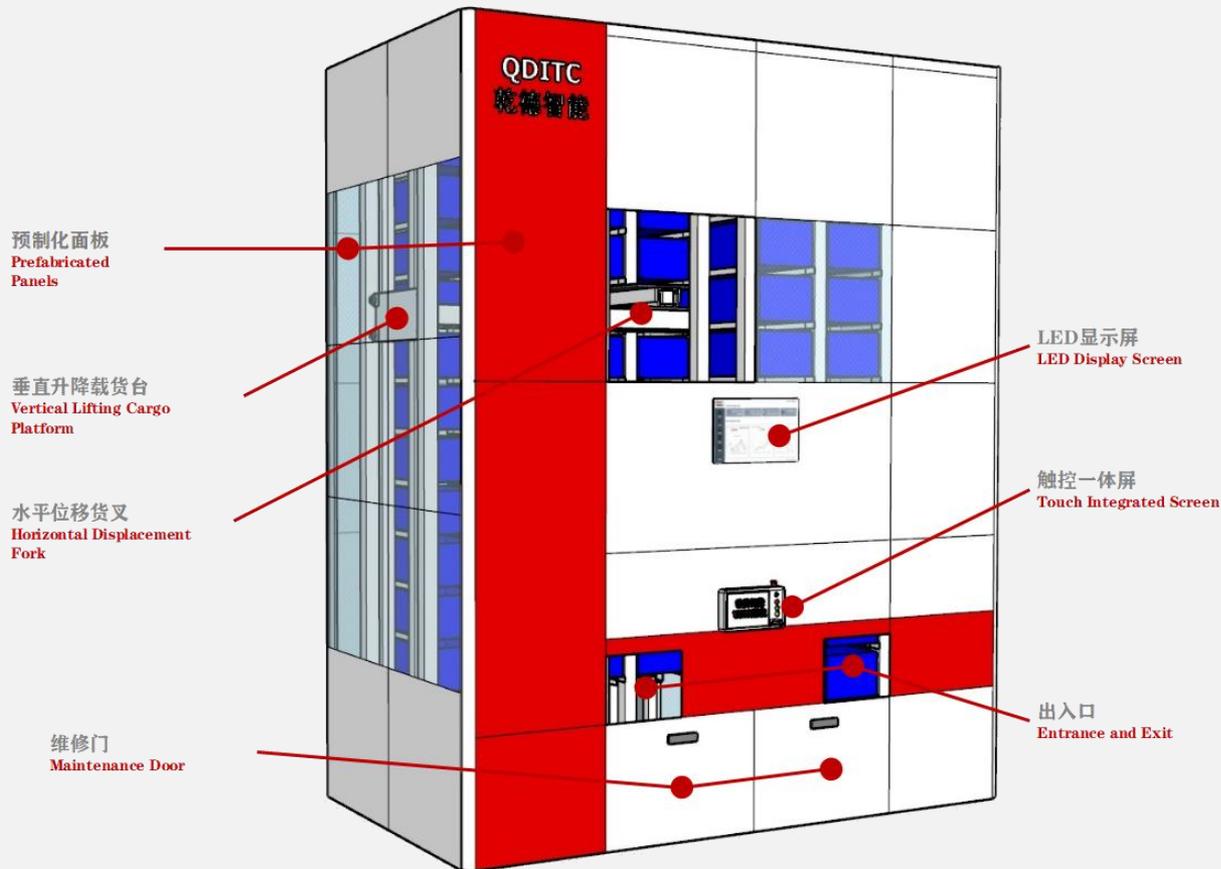
1. More reasonable design, lower cost, faster efficiency, and more environmentally friendly;
2. Simple and excellent single item entry and exit function;
3. With numerous specifications, it can be used in a wider range of application scenarios;
4. Can cooperate with AGVs, conveyors, and other automation equipment;
5. It can be used alone or in combination;
6. Various secure designs make equipment operate more stably, reliably, and safely.

# Vertical Stacking Module (SN)



The QDITC Vertical Stacking Module& System adopts a modular design, cleverly and reasonably planning the space in the vertical direction. Design a standardized shelf structure for storing materials, increasing material storage by over 90%.

By using standardized turnover boxes to achieve material storage and automated transportation, it is possible to connect with various external equipment such as AGV/conveyor lines, achieving "storage and transportation integration".



# Vertical Stacking Module (SN)



**高效存取**  
Efficient Access



**改善环境**  
Energy Conservation



**安全可靠**  
Safe & Reliable



**节省空间**  
Save Space



**省时省力**  
Save Labor



**接口灵活**  
Flexible Interface



**外观优美**  
Beautiful Appearance

# Vertical Stacking Module (SN)



## 技术规格/Technical Specifications

Equipment height	1,500mm-7,500mm	Access efficiency	15-70s (Depending on configuration)	Standard brand	
Operation interface	13.3-inch capacitive touch integrated screen	software function	implant stand-alone control system	servo reducer with a motor	DELTA/INOVANCE
positioning accuracy	± 3/5mm (Depending on configuration)		on-line system management	servo controller	DELTA/INOVANCE
Equipment self weight	1,300kg-5,500kg		Type of Materials setting	PLC	Seimens
Turnover box size	EU series turnover box		stock management	sensor	SICK
Access port	Supports multiple access ports		Storage location management	Safety grating	Xi Ken
Maximum load capacity	50kg		purview management	encoder	Omron
Login method	Password (standard)/IC card/ID card/fingerprint/face		order management	Touch integrated screen	Customized version
safety protection	Standard configuration		Inventory management	Low voltage electrical	Schneider
Automatic weighing	Supported, optional		fault management	Weighing sensor (Optional configuration)	ZEMIC
Execution power system	Servo control+Laser positioning		hopper/shelf layout management	Height measuring grating (Optional configuration)	DELTA
Door power system	Servo control+Laser positioning		ERP/MES and other System docking	other	International high-quality

# Vertical Stacking Module (SN)



## Vertical Sort Storage & System Model

No.	Model	Grid width (Outer,mm)	Grid depth (Outer,mm)	Grid height (mm)	SKU width	SKU depth	SKU height	SKU load (kg)	Container footprint size		VSM high- Customized (mm)	Numbe r of layers	Horizontal quantity- Customized (pcs)	Grid quantity (pcs)
									width: mm	depth: mm				
1-1	SN46066	460	635	310	400	600	230	50	4310	2190	3000	6	6	70
1-2	SN46068	460	635	310	400	600	230	50	5410	2190	3000	6	8	94
1-3	SN46060	460	635	310	400	600	230	50	6510	2190	3000	6	10	118
1-4	SN46136	460	635	310	400	600	230	50	4310	2190	5000	13	6	154
1-5	SN46138	460	635	310	400	600	230	50	5410	2190	5000	13	8	206
1-6	SN46130	460	635	310	400	600	230	50	6510	2190	5000	13	10	258

The above is a standard product selection table that supports various customized sizes and application scenarios, but the maximum device width does not exceed 6.5m and the height does not exceed 10m.

# ▶ Video Animation



# TowerMat for Heavy Duty Units

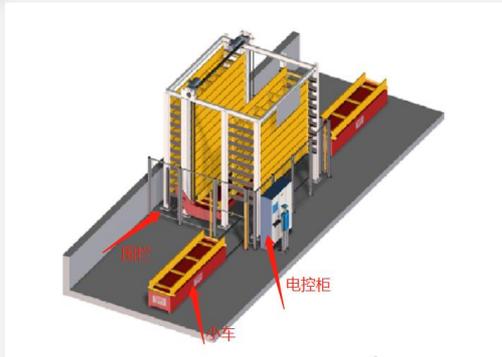


The double tower system consists of shelves, lifting and delivery devices, and an inbound and outbound system. It is suitable for the three-dimensional storage of commonly used plates (specifications 3000x1500mm, 4000x2000mm, 6000x2000mm, etc.) and bars (length 3-8m). The number of storage spaces is generally less than 100, and the load capacity of the storage space is less than 5 tons. The load capacity of the entire system is generally not more than 200 tons.

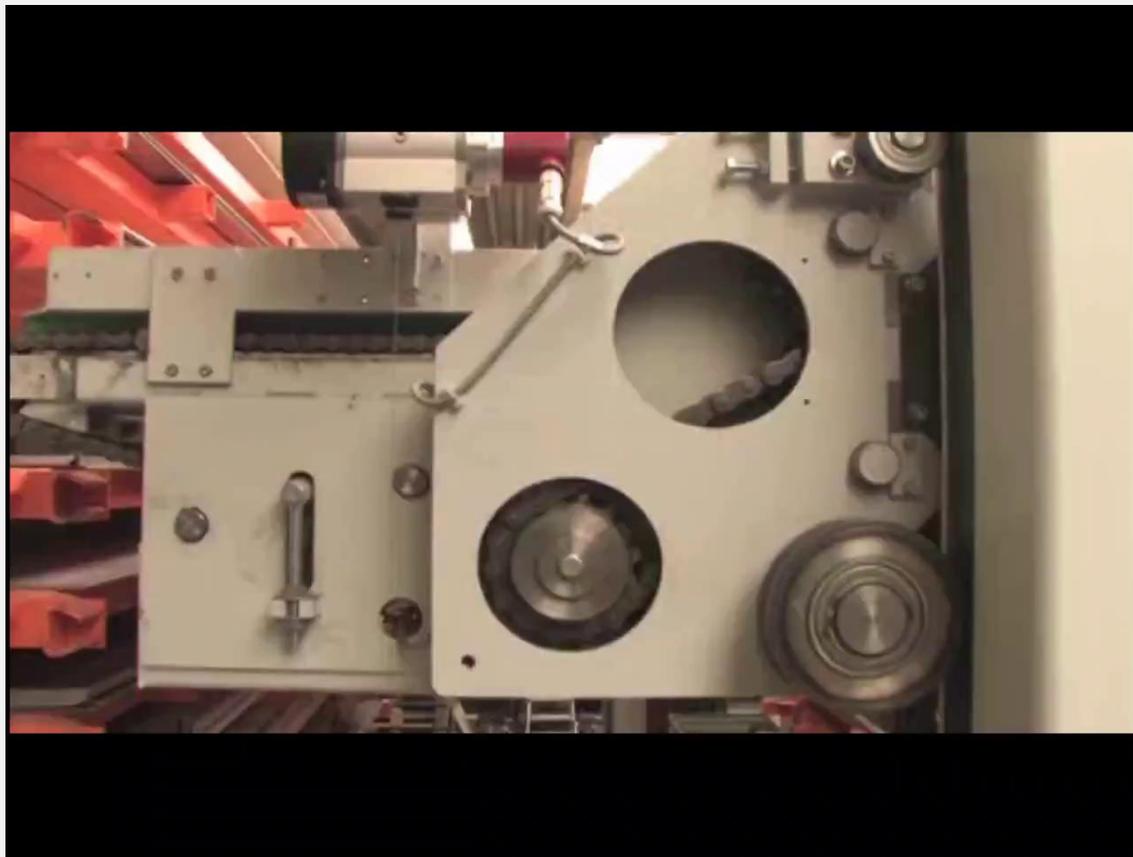
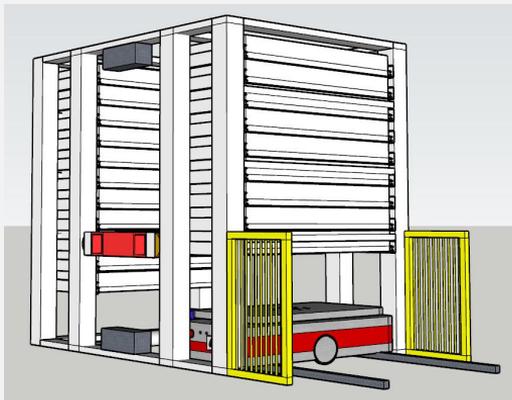
## Equipment characteristics:

1. Storing sheet and bar materials saves space and utilizes upper space;
2. Excellent overload function, with a maximum capacity of 5000kg/pallet;
3. Equipped with RGV cars at the entrance and exit, supporting horizontal and vertical movement design;
4. Multiple forms: single tower, double tower, multi tower, consortium, etc;
5. Various secure designs make equipment operate more stably, reliably, and safely.

# ▶ Video Animation



**Support various customized sizes and application scenarios.**

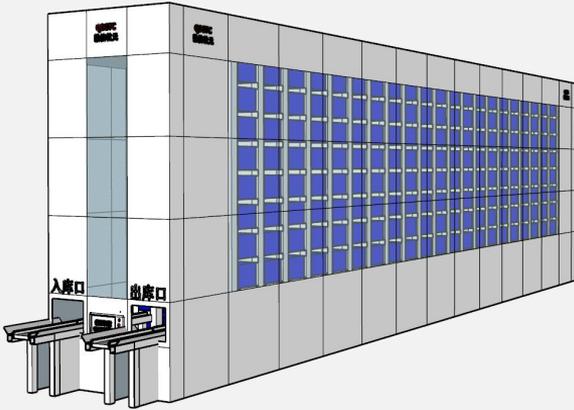


## VBM —— Donghuang

A flexible customized micro stereoscopic storage system based on the height and area of the factory building. Suitable for mass storage, full box caching, and other aspects of electronic products in the production process, material supply, and trade industry.

### Equipment characteristics:

1. Integrated system for dense three-dimensional access, transportation, and picking.
2. High speed delivery of goods to person and goods to machine, greatly improving sorting efficiency.
3. Effectively reduce labor costs and footprint.
4. Seamless integration of production systems and lightweight implementation of material management.
5. Multiple machines and groups operate in parallel, with equipment tightly connected to shelves.
6. Move and adjust the stacking warehouse at any time, and set different widths according to efficiency.
7. Automatic material recording, automatic inventory, and automatic system data uploading;
8. Direct integration with conveying and sorting systems, and even seamless integration with production equipment.
9. Various secure designs make equipment operate more stably, reliably, and safely.



**Support various customized sizes and application scenarios.**

**Support higher speeds and more optimized storage environments.**



# PART 03

# Software Product

Talents come from diligence, made by effort  
and knowledge is gained by accumulation.





## WCS

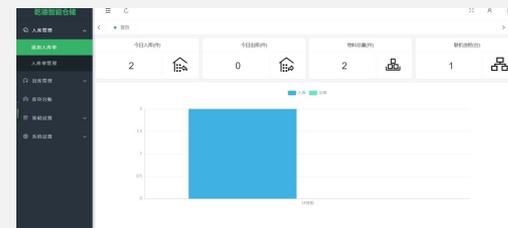
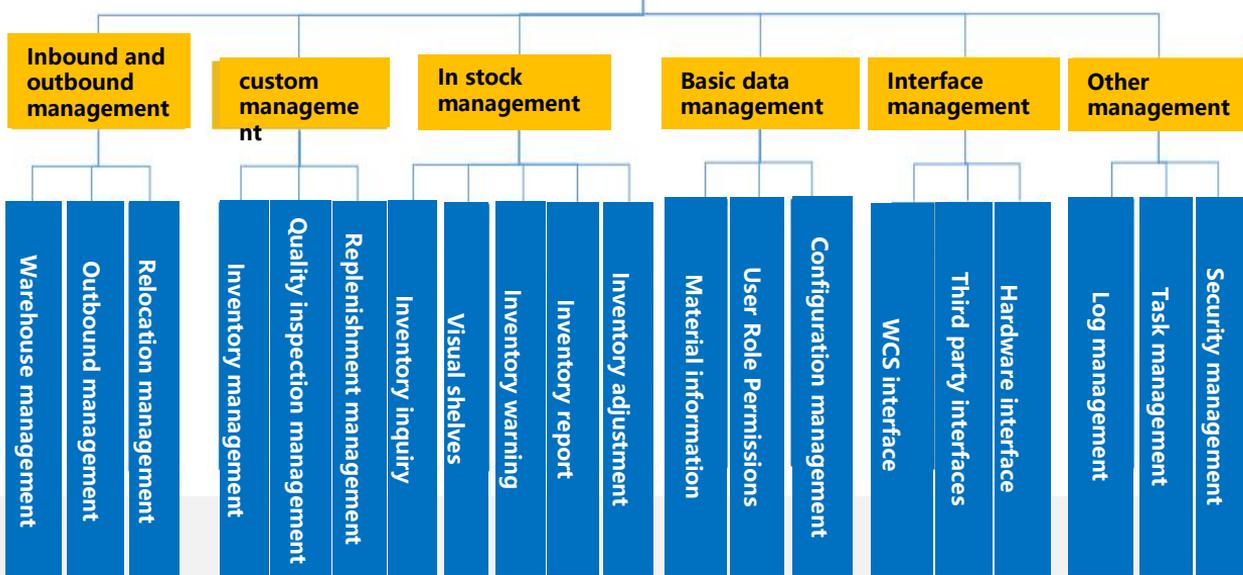
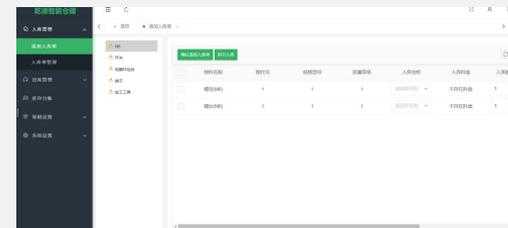
The WCS operation interface provides a separate command menu for emergency stop and recall of automated equipment (mainly referring to stackers), as well as resetting the system. The control menu requires authorization control to be in a clickable state.

## AGVS

The central control system should have the ability to receive and allocate tasks, provide interfaces with the system integrator, and have functions such as AGV status inquiry, AGV vehicle traffic management, charging management, and manual intervention.



## WMS Main Function Catalog

Item	Quantity	Unit	Status	Location	Operator	Time
物料A	1	个	正常	0101	张三	2023-10-27 10:00
物料B	1	个	正常	0102	李四	2023-10-27 10:05
物料C	1	个	异常	0103	王五	2023-10-27 10:10



Item	Quantity	Unit	Status	Location	Operator	Time
物料A	1	个	正常	0101	张三	2023-10-27 10:00
物料B	1	个	正常	0102	李四	2023-10-27 10:05
物料C	1	个	异常	0103	王五	2023-10-27 10:10

# Intelligent container system



仓储管理系统

入库管理

添加入库单

入库单管理

出库管理

盘点管理

库存台账

基础设置

设备管理

系统设置

物料名称:  物料代码:  批次号:   
入库单号:  出库单号:  送货单号:   
采购订单编号:  生产任务号:  到期日期:   
来源:  订单号:  入库日期:   
操作员:

物料代码	物料名称	规格型号	入库单号	出库单号	送货单号	采购订单编号	生产任务号	批次号
1.01.100	纯锡系列添加...		入库	出库	送货	采购	生产	批次
1.01.100	纯锡系列添加...							
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-23		deliv04-23			
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-22	ware04-22	deliv04-22			
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-21	ware04-21	deliv04-21			
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-09	ware04-09	deliv04-09			
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-08	ware04-08	deliv04-08			
1.01.807R0023J	807H-06无铅锡...	807H-B, Sn-Cu...	ware04-07	ware04-07	deliv04-07			

仓储管理系统

入库管理

出库管理

盘点管理

库存台账

基础设置

设备管理

系统设置

仓储管理系统

添加出库单

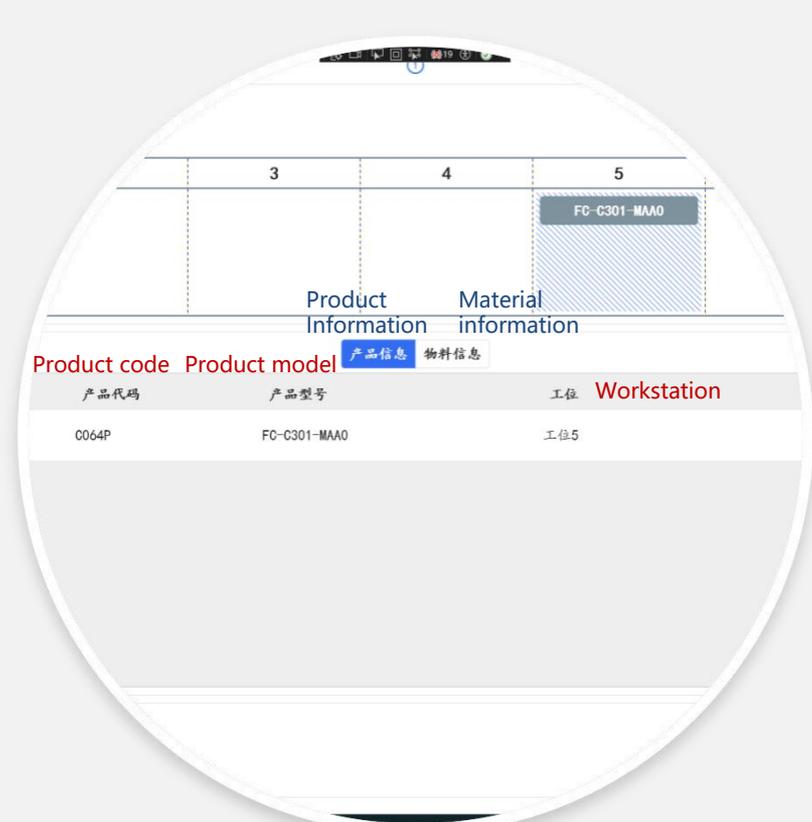
出库单管理

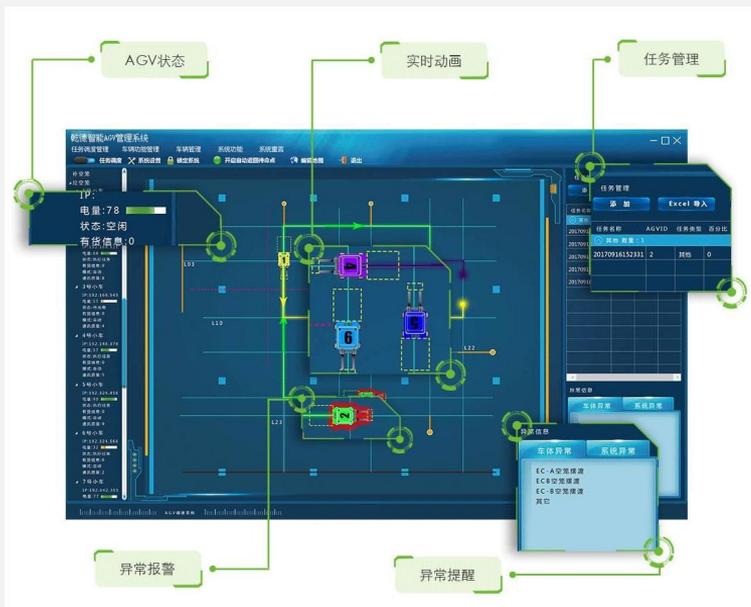
盘点单管理

货柜名称:  创建人:

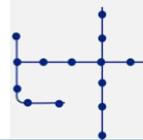
盘点单号	创建日期	创建人	货柜名称	状态	操作
PD_2023040811527586	2023-04-08	系统管理员	博士达回淬库	等待确认	<input type="button" value=""/>
PD_20230408105136246	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408104832428	2023-04-08	系统管理员	博士达回淬库	等待确认	<input type="button" value=""/>
PD_20230408104654048	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408104109023	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408103739979	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408103610553	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408082508764	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408082457620	2023-04-08	系统管理员	博士达回淬库	关门回库	<input type="button" value=""/>
PD_20230408082024529	2023-04-08	系统管理员	博士达回淬库	执行完成	<input type="button" value=""/>

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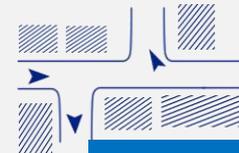




Travel route editing  
Path data mass transmission  
CAD like operations  
Delineation of traffic control areas



## Path planning



## Real time monitoring

Manual and alarm handling  
Vehicle task status  
Vehicle equipment status  
Navigation implementation map

### AGV中央控制系统

## Task transfer

## System docking

Multiple priority strategies  
Select idle vehicles nearby  
On the way to the task, balance the tasks along the way  
Human intervention  
Strategy customization



Intermediate table docking  
WCB service docking  
TCP/IP docking  
Customized docking

# software interface



Develop standardized interfaces that comply with relevant technical specifications, seamlessly integrate the equipment control system with the business operating system, and achieve the integration of main data, inventory information, business documents, and document execution results between the QD\_WMS system and ERP (MES/SAP/WMS) systems. This achieves encrypted protection of transmitted data and ensures information security.

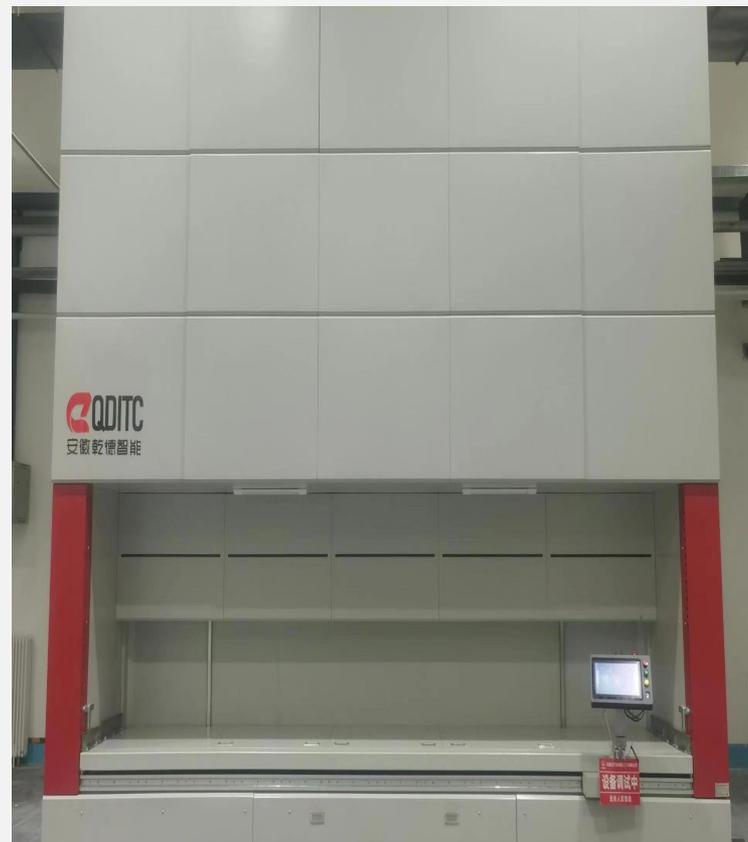


The system interface methods include: SOAP (Web service), a combination of SOAP (Web service) and intermediate libraries, SOCKET communication, database views, OPC protocol, and require encryption of transmitted data. The communication with the production scheduling platform adopts the methods of Web service or Web service+intermediate library interface, and the internal control system of the lower level can use methods such as Socket or OPC communication.

PART 04  
**Partners**



# Collaboration Cases



# Collaboration Cases



# Collaboration Cases



<b>project</b>	航天701所
<b>scale</b>	hopper/shelf: 24pcs/set
	carousel storage: 4set
	height: 2.5m
	Weight of goods: 20kg
	carousel storage: 3set
	height: 3.6m
<b>project</b>	芜湖航翼
<b>scale</b>	hopper/shelf: 56pcs/set
	carousel storage: 3set
	height: 7.2m

# Collaboration Cases



project	ABB Transformer
scale	tray: 40pcs/set
	lift storage: 8set
	height: 10.5m
	Weight of goods: 1000kg/tary
scale	lift storage: 6set
	height: 6.5m
	Weight of goods: 300kg/tary
scale	carousel storage: 12set
	height: 10m
	Weight of goods: 500kg

# Collaboration Cases



project	长江存储
scale	tary: 55pcs/set
	lift storage: 2set
	height: 17.5m
	Weight of goods: 500kg/tray
	lift storage: 2set
	height: 16.8m
	Weight of goods: 300kg/tary
	carousel storage: 4set
	height: 10m
	Weight of goods: 300kg

# Collaboration Cases



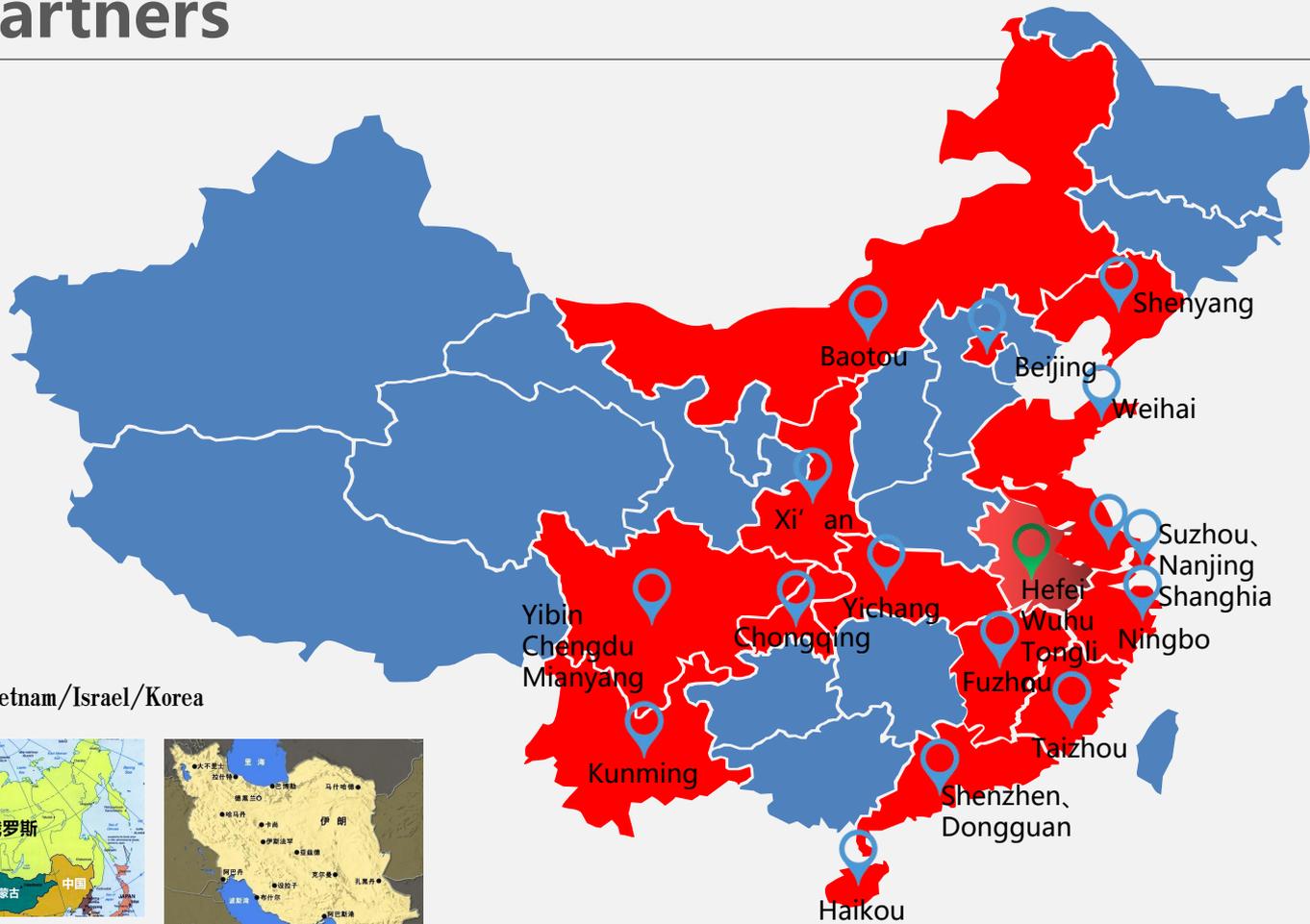
project	西安精密
scale	Storage location: 300pcs/set
	Sorting Storage: 2 set
	height: 3.5m
	Weight of goods: 50kg/tray
	Sorting Storage: 2 set
	heigh: 3.8m
	Weight of goods: 30kg/tray
	Sorting Storage: 2 set
	heigh: 6.3m
	Weight of goods:

# Partners



							
CASC	AVIC	AECC	NORINCO GROUP	CNNC	DTP	SGCC	
							
HITACHI		ABB China	ZOR	ZOLL	HOSHIMA INTERNATIONAL		
							
达亚汽车	Ferrotec	Valeo	HAECO XIAMEN	HUALI GROUP			

# Partners



Russia/Iran/Vietnam/Israel/Korea



# Partners



# After-sale Service

## Quick response mechanism

- 24/7 service
- 10 minutes to connect with after-sales engineers
- 2-hour on-site service (Hefei)
- 12 hour on-site service (<1000km)

## Patrol maintenance service

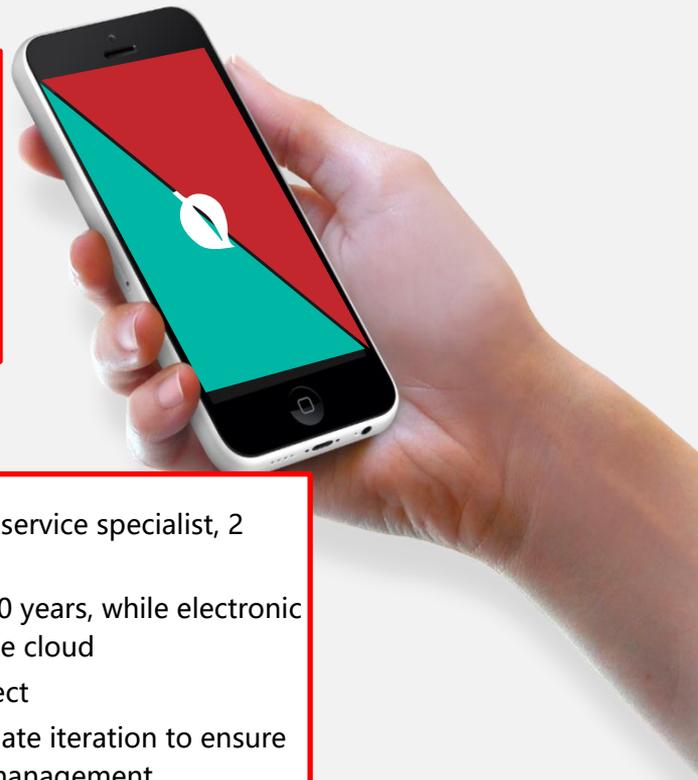
- Monthly online inspections
- Conduct on-site inspections every season
- Partial maintenance every six months
- Annual full maintenance

## Spare parts system

- Classification and filing of spare parts
- Online availability of spare parts
- Long cycle spare parts, maintaining a reasonable proportion throughout the year
- Maintain 5-year inventory of electrical components
- Vulnerable and consumable parts can be called up at any time

## Designated personnel and services

- “1+2” mechanism: 1 after-sales service specialist, 2 after-sales engineers/projects
- Paper information are stored for 10 years, while electronic information are stored online in the cloud
- Create separate files for each project
- Regularly implement software update iteration to ensure the progressiveness of customer management





THANKS

**Thank you  
for listening**

Contact information:

15262759399/18133636080

