



HUAYIDE INTELLIGENT
WAREHOUSE RACK MANUFACTURING BASE IN CHINA



Vertical Carousel Storage

Limited Space —————

Unlimited Possibilities

Tradelink International Shop
www.heavyracking.com

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www.huayiderack.com



Anhui Huayide Intelligent Equipment Co.,Ltd

Multi-Variety High-Frequency Storage



With carrier as unit for material management

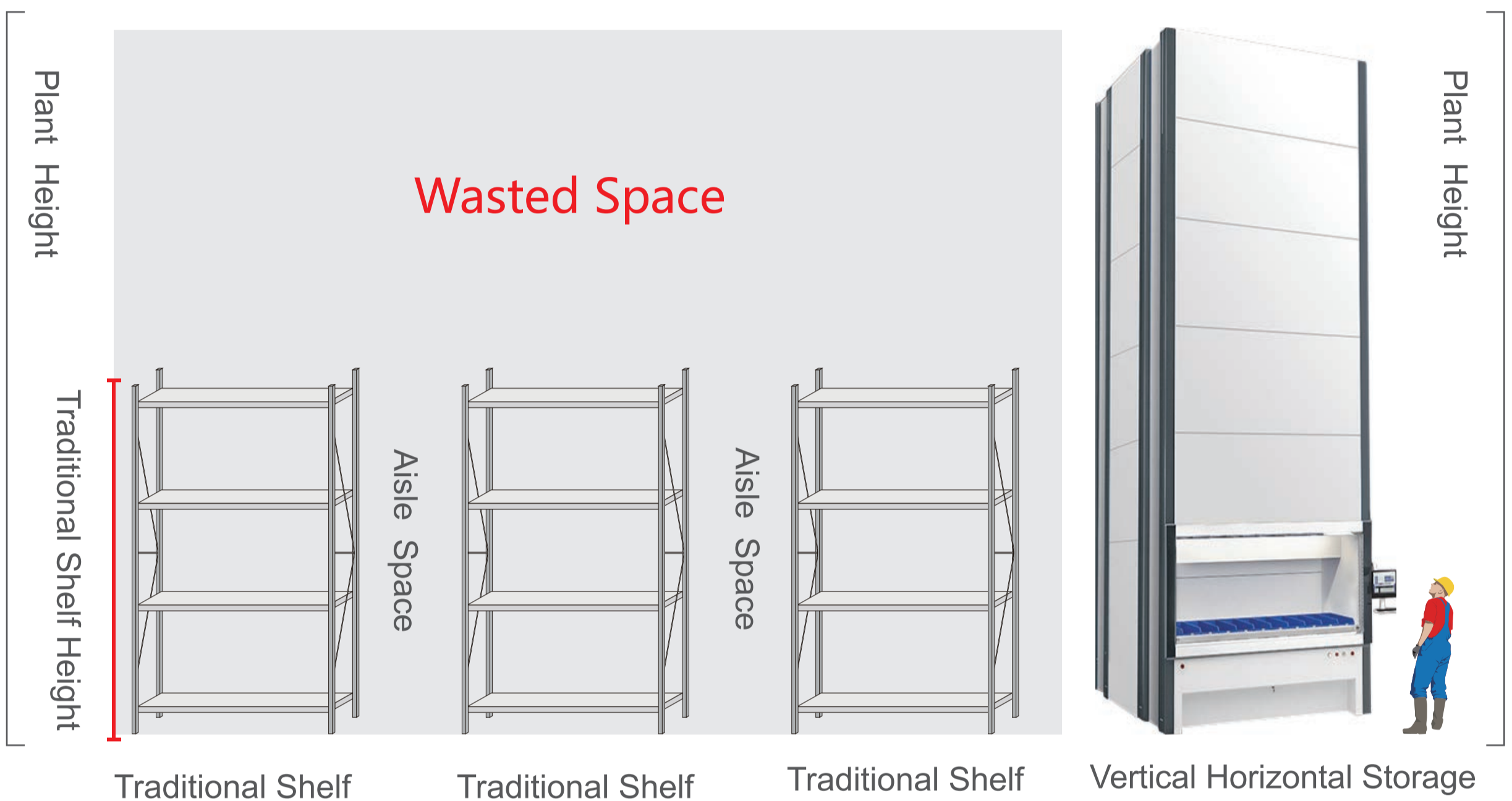
This product takes mechanical transmission as the main principle, and uses the carrier as the storage unit and address recognition unit. There are rows of shelves hanging at both ends of the container, and the shelves can be rotated forward or reversed. The product can intelligently screen the shortest path and send the stored items to the pick-up port, so it is especially suitable for goods that need to be accessed frequently.

Product Advantages

o Efficient storage

Save **60% ~ 85%** required ground space

Efficiency increased to **100% ~ 200%**



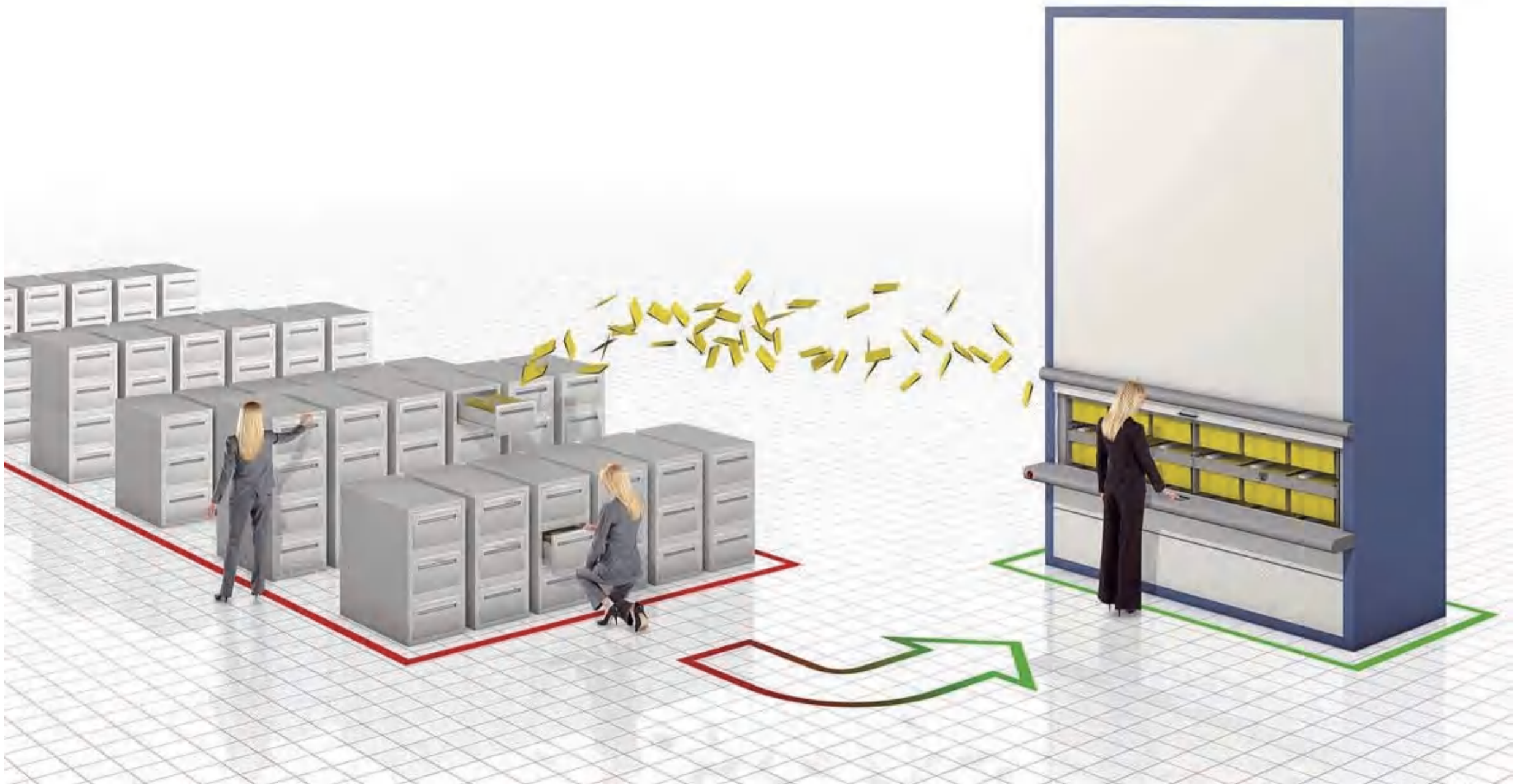
Large-capacity

and multi-variety storage

Occupies a small space, and can store more than 1,000 varieties at most. Small items are well-organized. The transfer distance is short and the pickup speed is fast. Fits all custom storage bins and storage boxes.

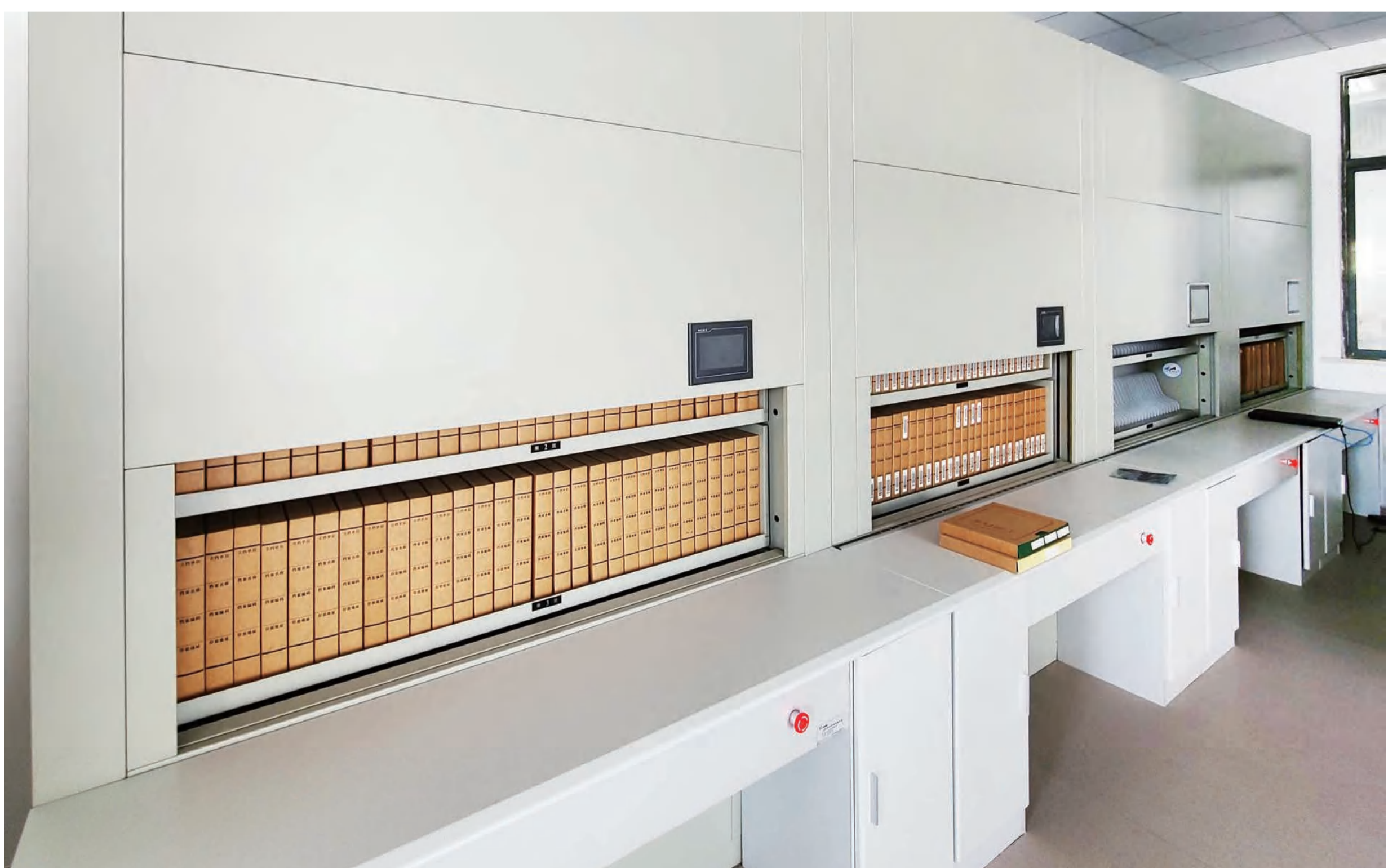


Product Advantages



High-speed and efficient intelligent warehousing

High-speed operation, high-speed picking, and short picking time. Optimize and compress storage space. Position indicator to reduce picking errors.



Product Advantages



Personalize and flexibility

Modular structure, flexible hopper design. It can be modified in many ways, with a variety of optional configurations. Can be used independently or expanded online



Product Advantages



Safe And Reliable

"goods to people" principle, the system operation process can be seen. Multifunctional features: Personalized operation control and accessory configuration. Smooth running sliding door, confirm cross bar.

”





Product Advantages

Especially in the production area of the workshop, the advantages of this product compared with other ordinary storage shelves

more obviously. On the basis of increased storage space up to 60% and accurate positioning, it can be used in a shorter time, and can meet the access needs of various products such as equipment parts, production tools, CNC tools, etc. with high delivery rate.

无人值守智能仓储柜



Product Advantages

- Power outage emergency hand crank ensures simple and fast installation and higher system stability.
- Pickup monitoring provides complete protection for operators and storage. Security is certified.
- Energy saving and low consumption, significantly reducing the life cycle cost (TCO) of equipment. Replacing recycling with energy saving has obtained quality and environmental protection system certification.
- Modern design, automatic chain tensioner for low-wear operation. Use strength-tested high-tech materials and perfect warehouse management software.
- Investment security: long service life, can be extended and retrofitted on demand.

Project real shot



Project real shot



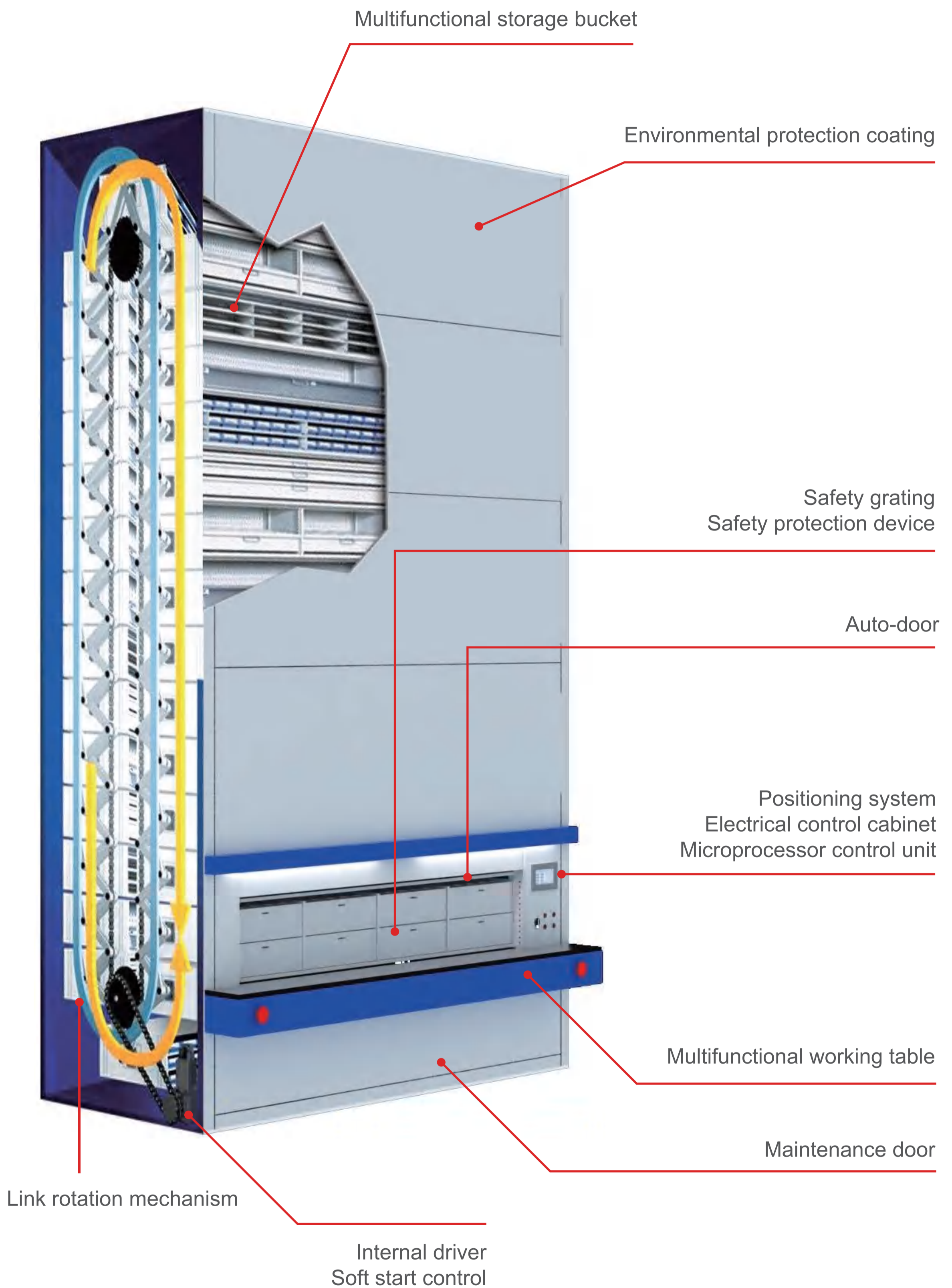
Project real shot



Project real shot



Structural Principles



The main body of the intelligent vertical rotary container is a three-dimensional frame structure, and the upper and lower main drive shafts pass through the shaft.

The bearing and bearing seat are placed between the left and right skeletons; the motor drives the transmission body to run along the ring-shaped guide rail through the sprocket and chain to realize the circulating operation of the vertical circulating container

Operation mode



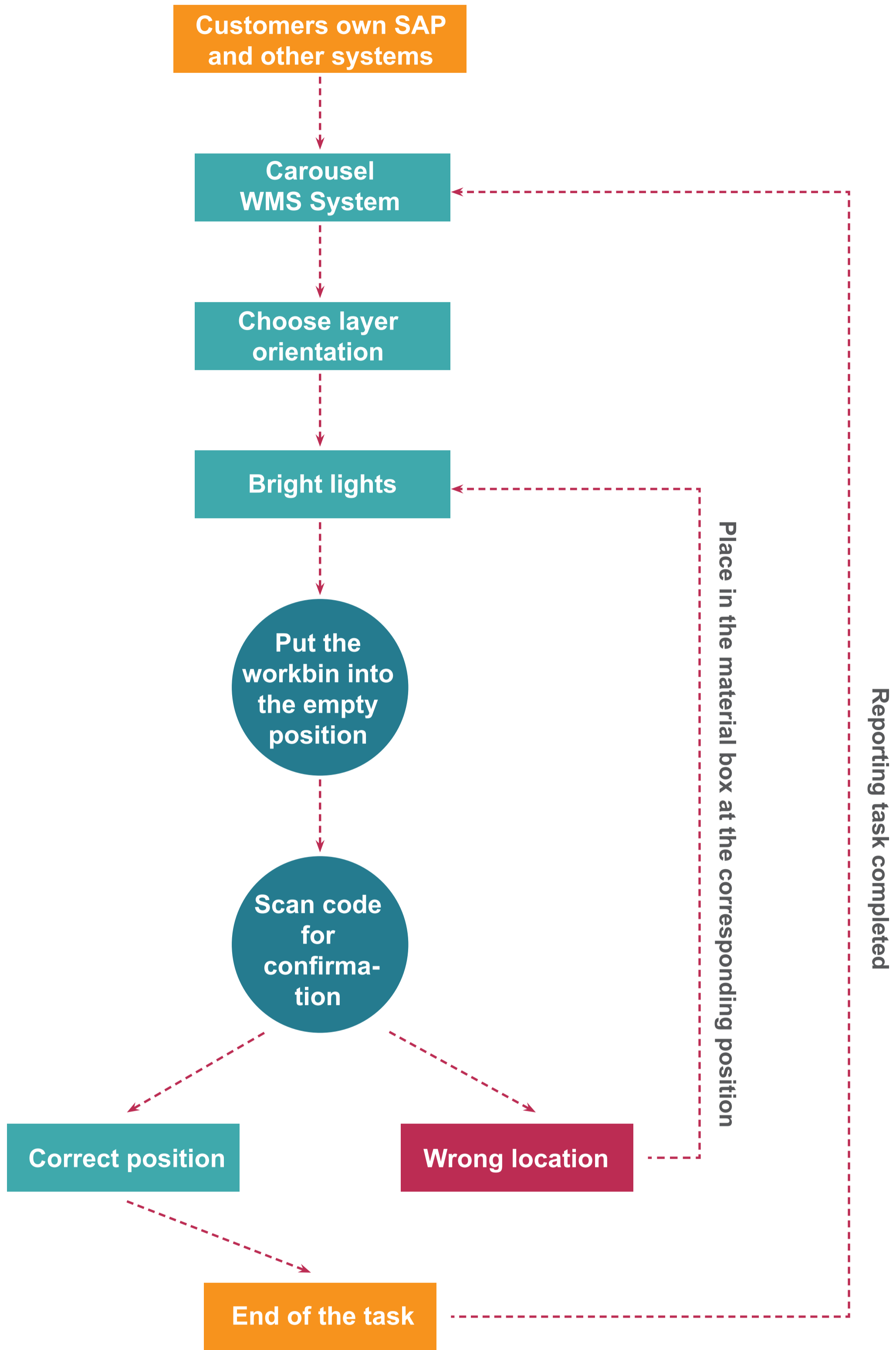
The WES (Material Execution System) control system independently developed by the vertical rotary container is intuitive and convenient to operate, and the operation is stable and reliable. Realize management, access automation. Both automatic operation and manual operation are possible.



Automatic
warehousing
and outbound



Flow chart of warehousing

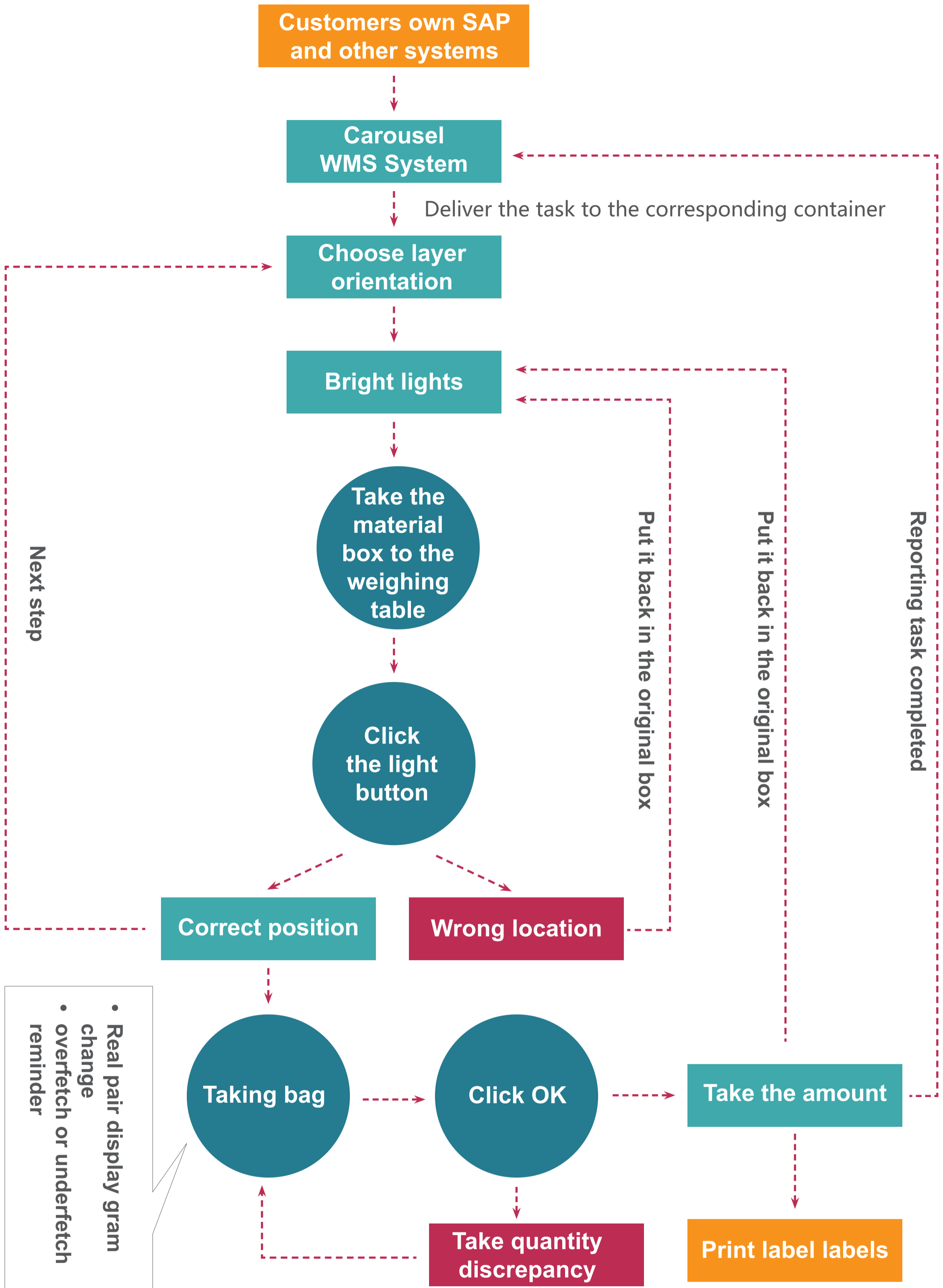


Flow chart of warehousing

When the spare parts are incoming, if the material enters the bag with a barcode, it can be directly aligned by scanning the code

Library, if there is no barcode, you need to enter information for the library. After the hopper list is displayed, it will be prompted by the box position of the bright system library, the storage is bound to the storage inner box information, and click Finish after binding.

Flow chart of warehousing



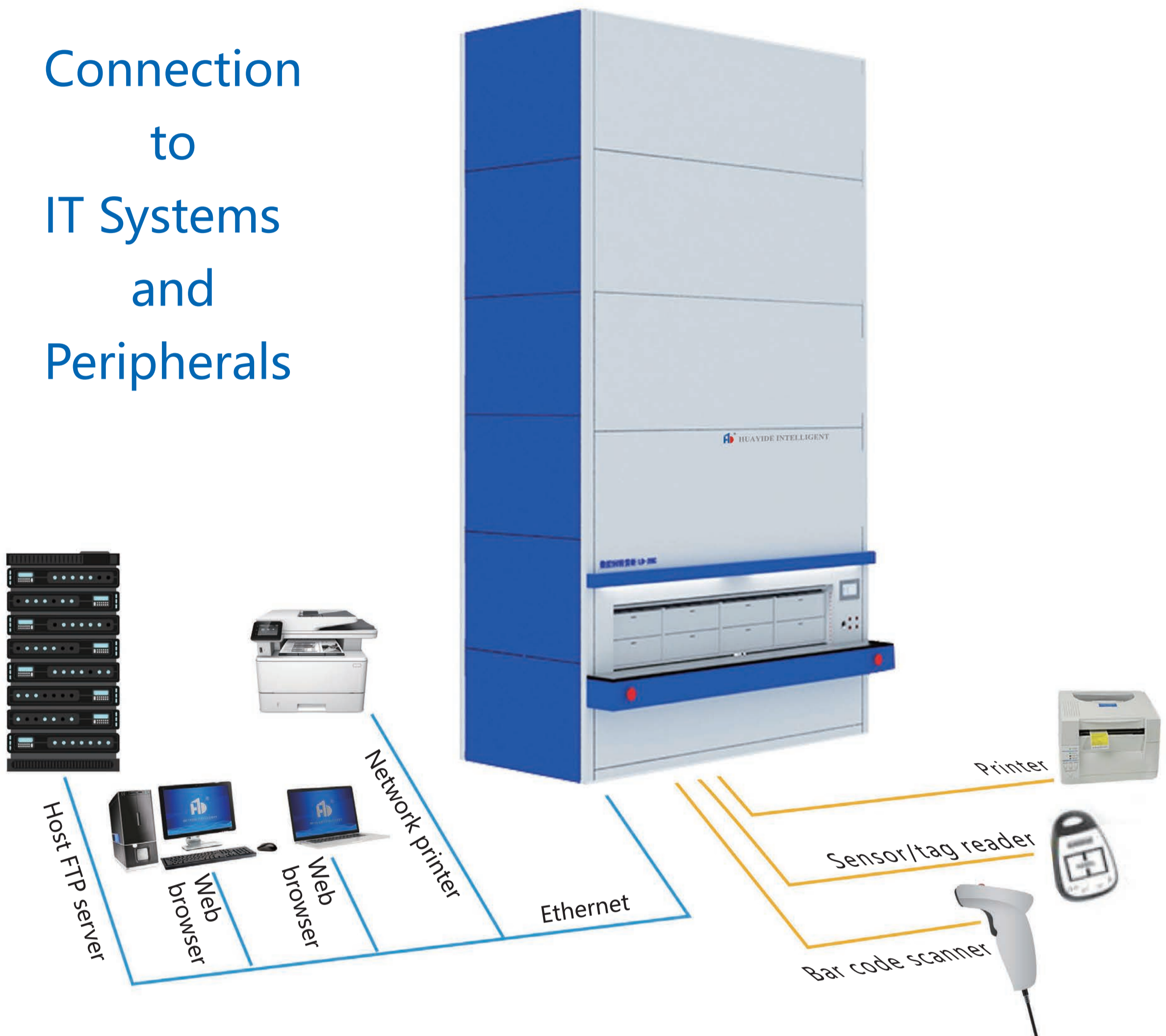
Outbound flow chart

For the distribution of spare parts, the intelligent vertical rotary container is mainly used in the process control of assembling spare parts, and realizes the connection between warehouse materials and production lines intelligently and automatically. In the later stage, through integration with MES, ERP, and WMS, materials required for assembly can be sorted out according to work order instructions, reducing labor and raw material inventory, and reducing the risk of quality problems.

Software system

IOT/Big data/AI/Cloud service

Connection
to
IT Systems
and
Peripherals



Full traceability

Visual presentation of data, real-time monitoring of jobs.

Efficient remote management.

Timely and accurate early warning, the whole process can be traced

real-time collaboration

Multi-warehouse and multi-stock supervisor, multi-party real-time collaboration.

Real-time delivery of information, opening up information islands.

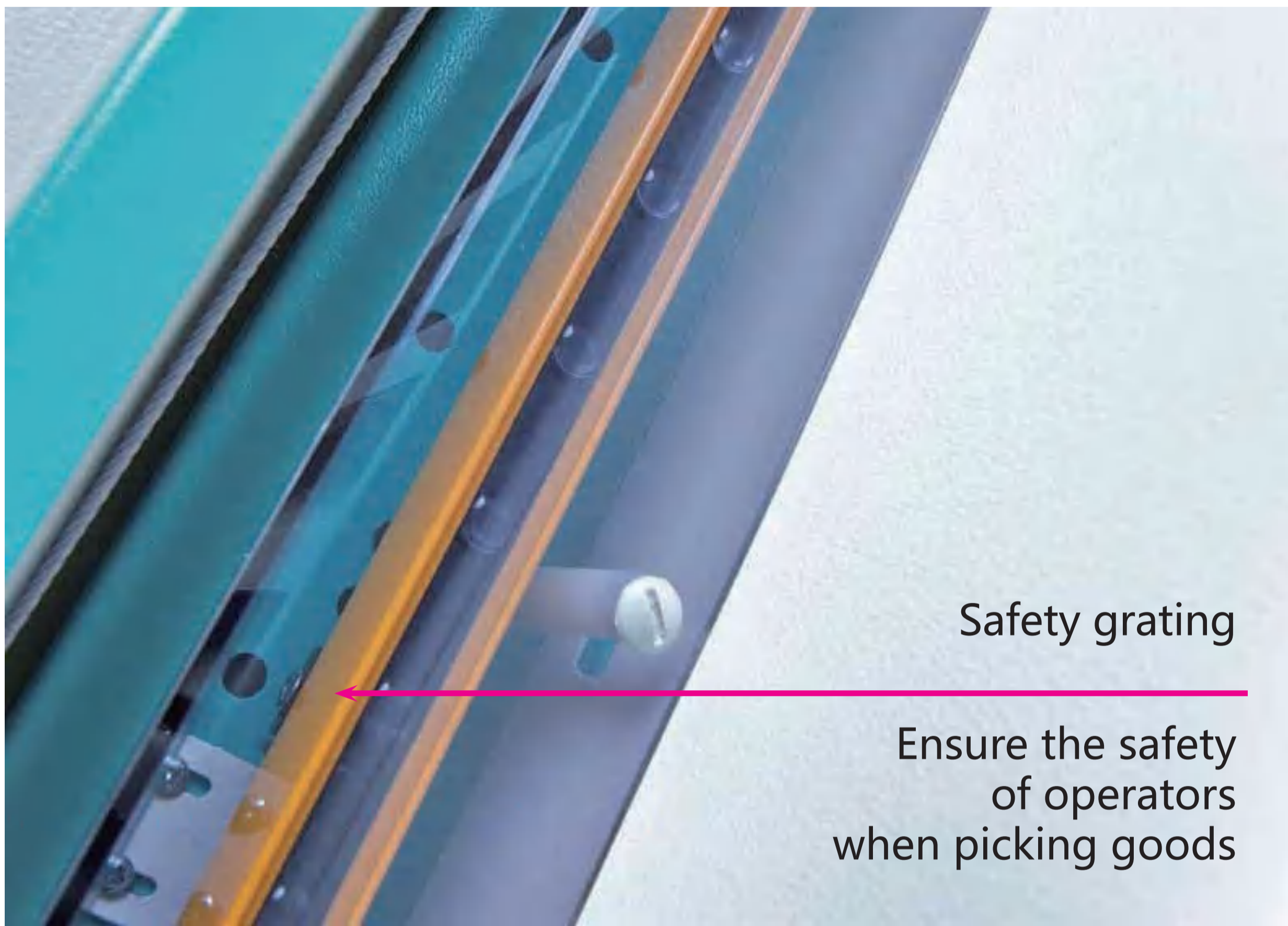
One-click data export, in-depth quantitative analysis



Basic Parameter

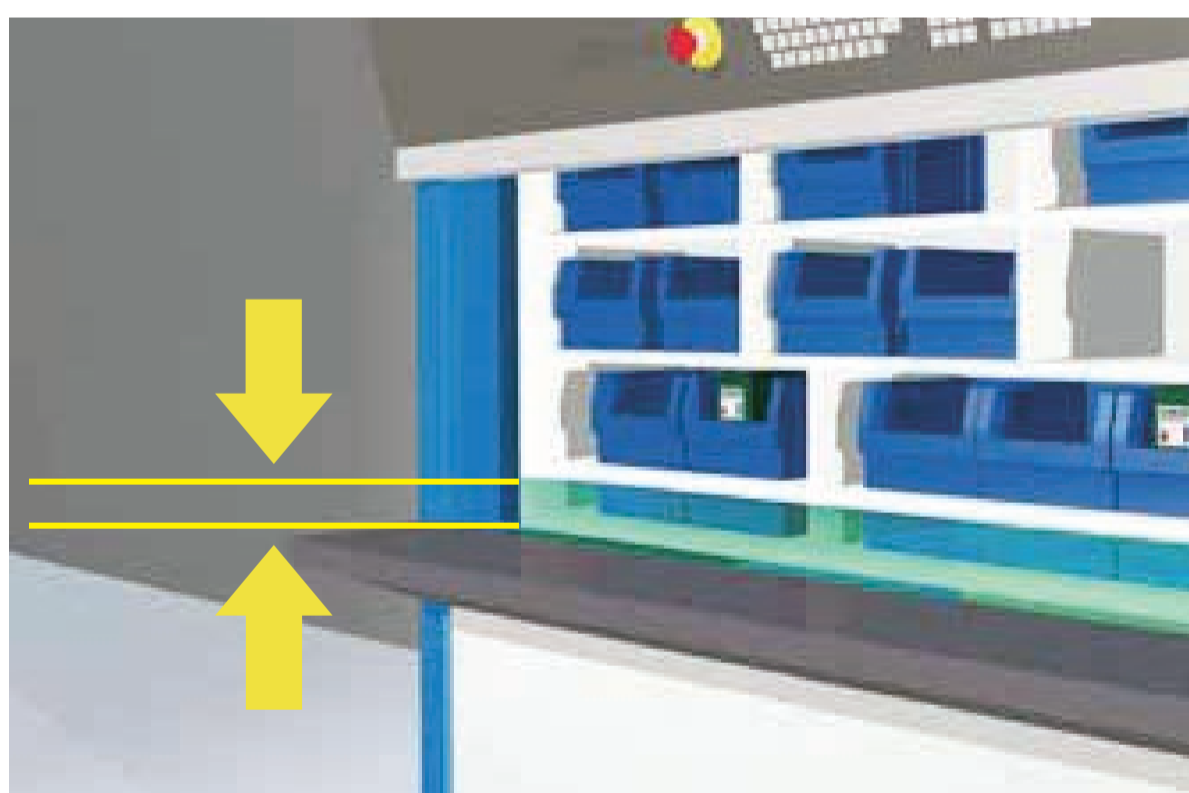
No.	Item	Basic Parameter
1	Overall Size (Length × Depth × Height)	3650mm×1800 (2400) mm×7300mm
2	Carrier (L×W×H)	2960mm×605mm×493mm (Size can be customized)
3	Carrier Qty	22 pcs
4	Working table height	800mm
5	Capacity per Carrier	450kg
6	Maximum load of the whole machine	10000kg
7	Rotation speed	4-8m/min
8	Carousel weight /set	2000Kg/ set
9	Main Motor power	5.5kW
10	Positioning accuracy of carrier	±2mm, Can be positioned to each layer
11	Control system	PLC (Simens)
12	Power supply	(three-phase five-wire system), AC380V / 50HZ
13	System integration	Can connect with ERP, WMS, MES and other systems
14	Computer	1set
15	Printer	1set
16	Weighing (Toledo scales)	2sets
17	Scanner	1pc
18	Roller Conveyor Station	3650X600 (mm)

Industry Stories



Safety grating

Ensure the safety of operators when picking goods



Each outbound level is accurately positioned through the control unit and can be adjusted individually



Sliding frame is reliable to fix the tray



Fault occurs, the user can start the security protection system



Position indicator ensures fast and accurate operation

Industry Stories



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