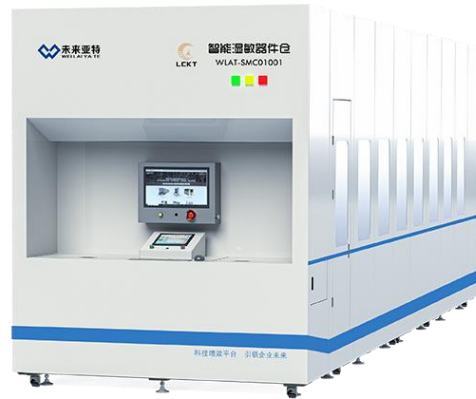


## SMT Intelligent Warehouse (Humidity-sensitive)

Product Type: FUTUREATT-CHS330

### Device Principle

This system is an intelligent box-type storage system that requires one operator to handle the inbound and outbound operations of storage containers using aisle stacker trucks.



### Functional Features

- The system can be integrated with any WMS, ERP, MES, or similar systems.
- Implements the first in, first out (FIFO) principle for precise material management.
- Equipped with a temperature and humidity management module to ensure material quality through constant temperature control.
- Implements foolproof measures throughout the entire process, achieving 100% accuracy.
- Utilizes unique codes for traceability of materials.
- Operates with intelligence, reducing labor requirements and improving efficiency.
- Simple and user-friendly operation, requiring only one person.

### Application

Suitable for the electronic components industry, particularly SMT factories, for automatic storage and material dispensing.

### Workflow

The equipment consists of a vertical shelf, aisle stacker trucks, and necessary inbound and outbound conveyors.

- SMD trays are transported from an automatic labeling machine to the inbound loading area.
- During inbound processing, the operator scans the product to be stored, places it in a storage container, and associates the product code with the container barcode.



- The operator accurately positions the storage container at the inbound end. Following the inbound instruction, the aisle stacker truck automatically moves to the inbound end, retrieves the container, and delivers it to the designated storage location, completing the inbound operation.
- During outbound processing, the operator receives an outbound instruction, and the aisle stacker truck automatically moves to the target storage location, retrieves the container, and places it onto the outbound conveyor.
- The operator retrieves the required products from the container at the outbound area and disassociates the product code from the container barcode, completing the outbound operation.
- The remaining products and containers can undergo another round of inbound processing, repeating the cycle.

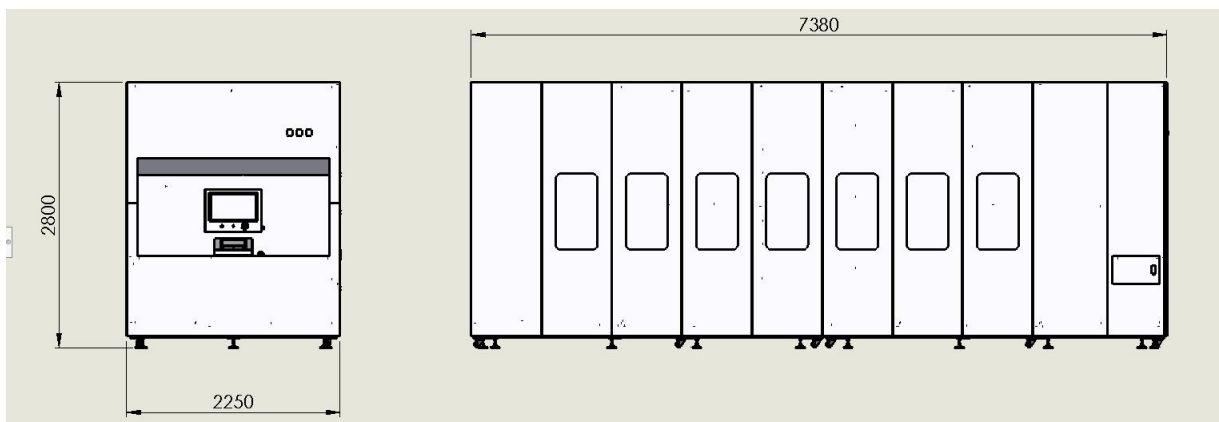
## Technical Specifications

	Equipment Model	Parameters
<b>Basic Parameter s</b>	Power Supply Voltage	Three-phase, 220V (Can be customized for overseas users based on the local power supply voltage)
	Frequency	50Hz
	Air Pressure	0.5MPa clean compressed air (Can be customized for overseas users based on the local power supply voltage)
	Dimensions (Length x Width x Height)	7380mm × 2250mm × 2800mm (Length and height can be customized according to customer requirements)
	Loading/Unloading Buffer	Two openings for loading and unloading
	Storage Compartment Dimensions	650mm × 450mm × 395mm (Designed based on customer-specific ESD turnover box dimensions of 600mm × 400mm × 280mm, storage compartment size can be customized)
	Load Capacity	≤30kg per container
	Maximum Storage Capacity	150 containers (Storage capacity can be customized based on customer requirements)

	Access Efficiency	Average access time of 25s per container, with a throughput of 60 containers per hour
	Aisle Stacker Truck Speed	Walking speed $\leq 1.5\text{m/s}$ , lifting speed $\leq 1.8\text{m/s}$
	Configuration	Temperature and humidity detection module, uninterruptible power supply module, inbound and outbound visual code reading and error prevention module
	Note	Suitable for precision electronic components or other valuable materials
<b>Additional Information</b>	High Voltage Section	The distribution cabinet is equipped with independent circuit breakers for easy maintenance.
		The distribution cabinet is equipped with exhaust fans.
		Plastic cable trunking is used.
	Equipment Control Section	Includes the electrical control system, human-machine interface, and other components.
	Electrical Control System	Implements control functions for various functional mechanisms of the equipment.
		Uninterruptible Power Supply (UPS): Provides power for at least one hour during a power outage and supports manual material retrieval logic.
		Temperature and Humidity Control Module: Monitors real-time temperature and humidity inside the warehouse. The industrial temperature and humidity control module actively adjusts the temperature and humidity.
Human-Machine Interface	Enables interaction between humans and the machine.	
Visual Software System	Records tray information, detects labels, and traces various statuses of products produced by the machine.	

		Interacts with WMS data.
	Environmental Requirements	Measurement should be 500mm away from the operating position or the equipment's outer wall.
	Safety Requirements	The equipment complies with relevant national safety standards for electromechanical equipment and CCC standards.
	Equipment Appearance	The rack is in gray-white color (7035).

### \*External Dimensions



### \*Equipment Safety Requirements

- 1、 The equipment should comply with current WLYT standards or stricter local regulations. Specific requirements will be clarified during equipment design review.
- 2、 The appearance and structural design of equipment protection devices should be examined during the design review. Subsequent processing and installation should not cause mechanical interference, hinder maintenance, or pose related safety issues.

**\*Randomly Equipped Items**

Name	Quantity	Remarks
Tool Bag	1 set	
Electric Screwdriver	1 piece	
Small Adjustable Wrench	1 piece	
Hex Key Set	1 set	
Micro Screwdriver Set	1 piece	

**\*Other Optional Models**

Moisture-Sensitive Warehouse	Model	Type	Dimensions
Intelligent Moisture-Sensitive Component Warehouse	FUTUREATT-CHS550	Sealed Storage (Industrial Air Conditioning, Constant Temperature and Humidity)	Length and height can be customized according to customer requirements.
	FUTUREATT-CHS730	Sealed Storage (Nitrogen Gas Connection, Constant Temperature and Humidity)	Length and height can be customized according to customer requirements.

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FUTUREATT reserves the right of final interpretation for the cards.