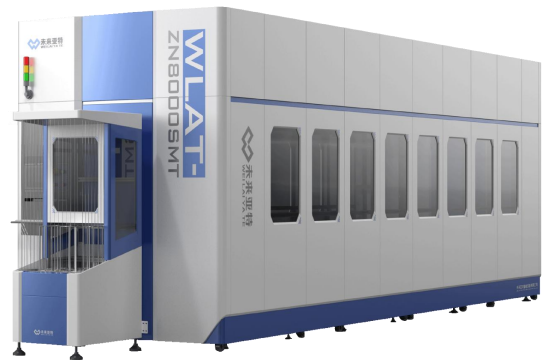


SMT Intelligent automatic warehouse

Product Type: FUTUREATT-CIN080

Device Principle

The device is fed into the storage loading area by an automatic labeling machine. It is automatically grabbed, and the code is read and verified. The system automatically assigns a storage location and completes the inbound process. For outbound operations, the required trays are automatically grabbed, conveyed to the outbound area, and undergo code verification. The trays are then loaded onto an AGV (Automated Guided Vehicle) transport vehicle using an automated arm module, and finally transported to the production line.



Functional Features

- Suitable for 7-inch trays
- The system can be integrated with any WMS, ERP, MES, etc.
- R-ID generation allows dispatching to trays based on first in, first out (FIFO) method, achieving precise material management
- Equipped with temperature and humidity management module for maintaining material quality
- Utilizes unique codes for error prevention and traceability of materials
- Intelligent operation reduces labor and improves work efficiency
- Simple and easy operation, requiring only one person

Application

Used in the electronic components industry, mainly for SMT factories, automated storage and dispensing of electronic components.



Workflow

The device has front and rear storage and retrieval ends. The front end is for inbound operations, including automatic storage and code reading. The rear end is for outbound operations, including automatic retrieval and verification.

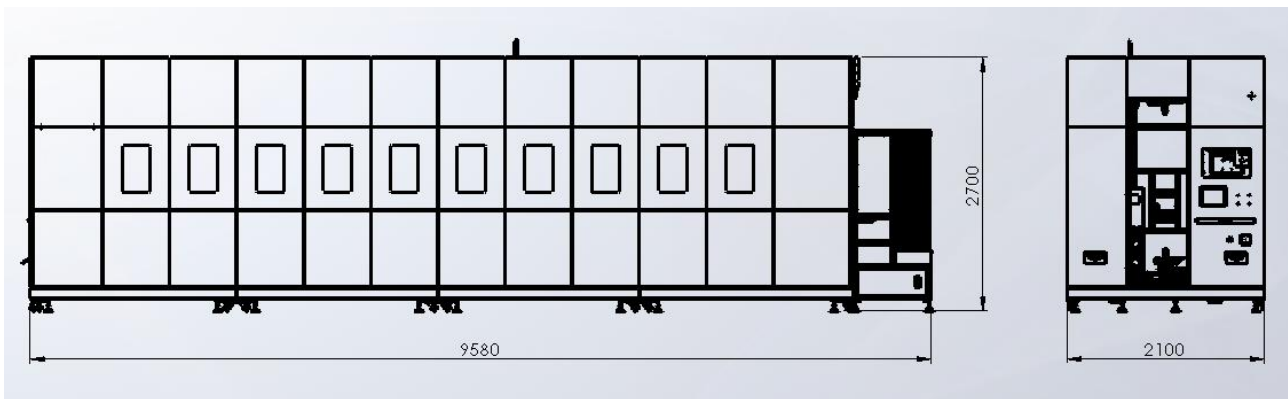
- SMD trays are conveyed to the loading area by an automatic labeling machine.
- A tray-grabbing robotic arm takes the tray to the code reading station.
- The device automatically takes photos and reads the codes, and the system assigns storage locations.
- The aisle robotic arm automatically grabs the tray and places it in the designated storage location, completing the inbound operation.
- For outbound operations, the operator submits the retrieval request to the warehouse management system.
- The system automatically activates the aisle robotic arm based on the request, retrieves the required trays, and places them on the outbound conveyor.
- The trays are conveyed to the verification position by the outbound conveyor, where automatic photos are taken, codes are read, and verification is conducted.
- After verification, an automated module places the trays on an intelligent picking trolley, which then transports them to the production line.

Technical Specifications

	Device Model	Parameters
Basic Parameters	Power Supply	Single-phase, 220V (can be customized for overseas users according to local power supply voltage)
	Voltage	
	Frequency	50Hz
	Dimensions (Length x Width x Height)	9580mm × 2100mm × 2700mm (height and length can be customized)
	Type	Single-channel or dual-channel robotic arm
	Storage	8060 (can be customized)
	Quantity/Slots (7-inch trays)	
	Outbound Efficiency	8 seconds per piece

Storage and Retrieval Efficiency	Inbound Efficiency	12 seconds per piece
	Code Reading Efficiency	≤250ms
Compatible Materials	Suitable Trays	7-inch trays
	Tray Thickness	<14mm
	Environmental Requirements	500mm distance from the operating position or device outer wall
Others	High Voltage Section	The distribution cabinet has independent circuit breakers for easy maintenance.
		The cabinet is equipped with exhaust fans.
		Plastic cable trunking is used.
	Equipment Control Parts	Include electrical control system, human-machine interface, visual software system, etc.
	Electrical Control System	Controls various functional mechanisms of the device.
	Human-Machine Interface	Provides human-computer interaction functions.
	Visual Software System	Records tray information, detects labels, traces various statuses of products produced by the machine, and interacts with WMS data.
	Environmental Requirements	500mm measurement distance from the operating position or device
	Safety Requirements	Equipment complies with relevant national standards for electromechanical devices and CCC standards
	Equipment Appearance	Upper and lower racks in light gray RAL7035 + medium gray.

*External Dimensions



*Device Safety Requirements

- 1、 The device must comply with current FUTUREATT standards or stricter local regulations. Specific requirements will be clarified during the equipment design review.
- 2、 The appearance and structural design of the device's protective devices must be thoroughly checked during the design review. Subsequent processing and installation should not cause mechanical interference, hinder maintenance, or pose any safety risks.

*Randomly Provided Equipment Items

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

*Other Optional Models

Warehouse	Model	Capacity	Efficiency
SMT Intelligent Warehouse	FUTUREATT-CIN120	12,000 slots	Inbound efficiency: 9.5s/tray, Outbound efficiency: 5s/tray
	FUTUREATT-CIN140	14,000 slots	Inbound efficiency: 9.5s/tray, Outbound efficiency: 5s/tray

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