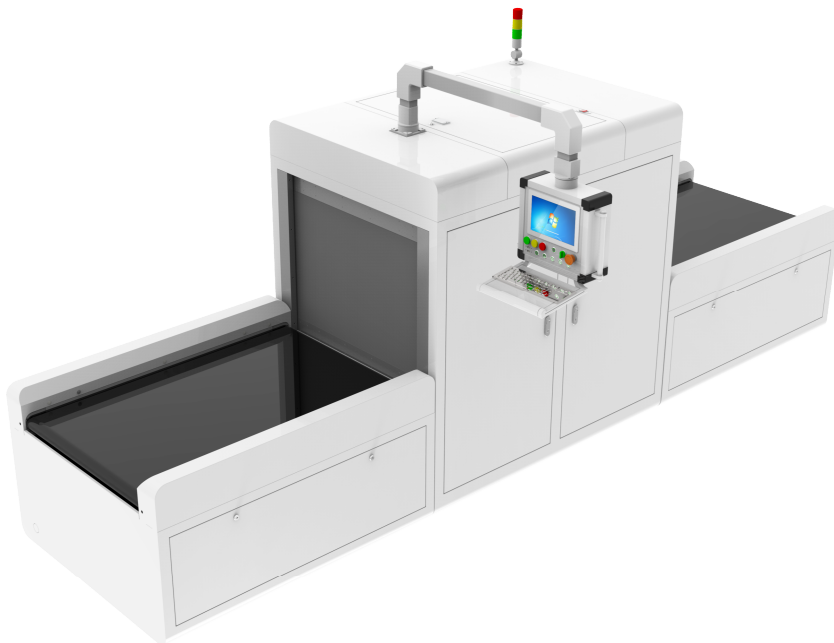


Specification for RFID Tunnel Inventory Channel Machine



1. Product Introduction

The CK-TP2 RFID tunnel type inventory channel machine is an RFID channel machine independently developed and designed by our company. With radio frequency identification technology as the core, it combines mechanical design, automation, multiple sensors, electromagnetic shielding and other methods to solve the problems of high error rate and low efficiency of traditional manual counting methods in product inventory, inbound and outbound review and other operations. At the same time, a real-time list is generated on the display screen during the operation of the channel machine, and corresponding prompts and alarms are made for data verification, which is convenient for management personnel to check and greatly saves labor costs and improves work efficiency.

Industry application: The main market application is single box item recognition, such as inventory management and product counting in industries such as clothing, leather goods, bags, alcohol, and electricity.

2. Product Features

1. Fast recognition speed, capable of identifying over 400 items within 3 seconds and generating a list in real-time on the display screen;
 2. Professional motion control and mechanical design technology to fully solve the problem of label omission;
 3. Strict electromagnetic shielding design and RF optimization can eliminate the harm of RF radiation to the human body while ensuring the accuracy of tag reading;
 4. The industrial computer software can control the overall functions of the machine, monitor the operating status of all equipment, and is equipped with mechanical
-

buttons externally, making it convenient for operators to control the working status of the equipment at any time;

5. Industrial grade conveyor line design, fully solving the problem of conveyor line offset maintenance;

6. Maintenance doors are installed on both sides of the channel to facilitate equipment maintenance;

7. Support the expansion of abnormal sorting and weighing sections to meet different user needs, and support customers in secondary development of application software;

8. Inventory efficiency has been improved by more than 100 times. The original manual inventory work required 5-10 minutes, while the small conveyor belt inventory channel machine inventory only takes 3-5 seconds

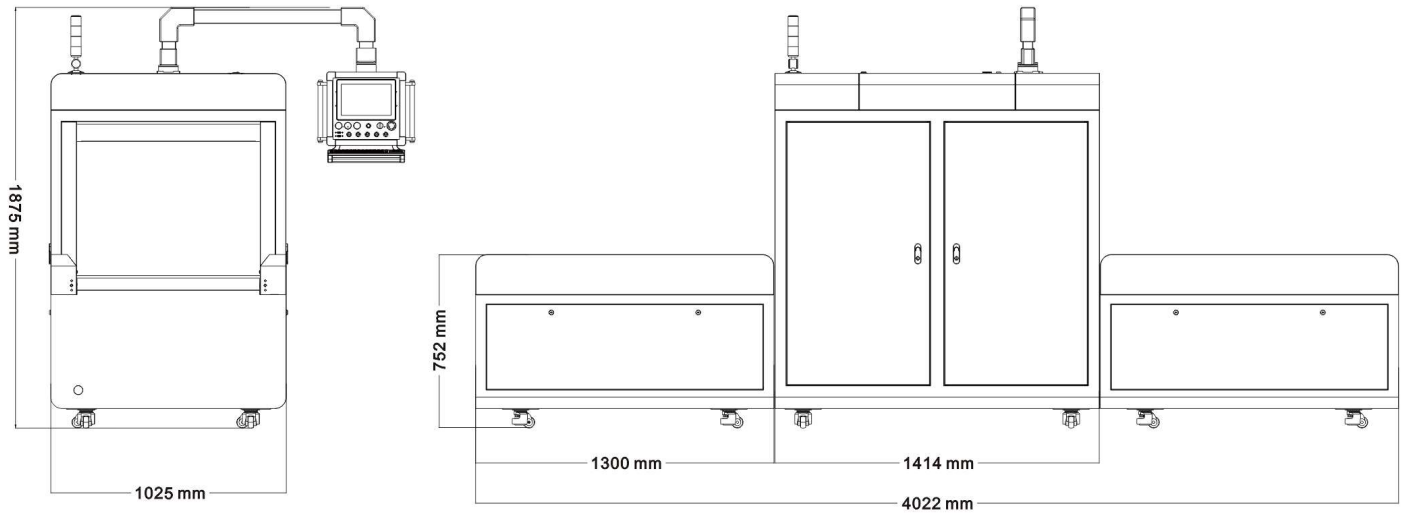
3. Specification parameters

Product model	CYKEO-TP2
Screen size	10 inch capacitive touch screen, resolution 1280:800, screen to body ratio 16:10
Operating system	Windows (optional Android)
Industrial control configuration	N29, 4G+ 128G /RK3399, 4G+32G
Operating Frequency	902.75-927.25MHz
Number of antennas	6 antennas: 4 antenna gain 10.5dBi; 2 antenna gain 9dBi
Read and write label	≥ 400 pieces

quantity	
Recognition speed	200pcs/s (related to label performance, material and quantity of managed items)
Door opening and closing method	Front and rear electric shielded rolling shutter doors
Opening speed	1.5 seconds
Shielding distance	The misreading range after the front and rear shielded rolling shutter doors are closed is $\leq 30\text{cm}$
status indicator light	The status indicator lights are grouped into three: standby, running, and abnormal.
Alarm indicator light	1 tricolor lamp
transmission speed	Default 20m/min, adjustable up to 30m/min
Transmission load-bearing capacity	50kg
Reading efficiency	6-10 boxes/minute
Automatic conveyor line	Three stages can be independently controlled, and the speed can be adjusted in sections
working mode	Loop/trigger
Read mode	Static/Moving
communication method	Standard configuration: Ethernet port, 2 sets of USB/optional: WIFI, 4G
Manual control switch	8 manual control switches: 1 for opening the front and rear doors, 1 for closing the front and rear doors, 1 for starting the

	transmission, 1 for stopping the transmission, 1 for resetting the front and rear doors, 1 for turning on and off the system, 1 for emergency stop, and 1 for automatic manual switching
Working Voltage	AC220V 50Hz
working power	Maximum power 600W
Development support	Provide SDK/API development kit
material	1.2mm thick carbon steel plate
Overall dimensions (width * height * depth)	1025mm*1875mm*4022mm
Internal space (width * height * depth)	780mm*580mm*1360mm
Front/rear conveyor line (width * height * depth)	1025mm*752mm*1300mm
Maximum box size (width * height * depth)	760mm*560mm*1000mm
Operating Temperature	-20°C ~ +60°C
Storage temperature	-25°C ~ +70°C
storage humidity	25% ~ 50%

4. Product size



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception,

which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.