



JYL-T403

RFID Tray-type Tunnel Inventory Machine

The JYL-T403 is an industrial-grade RFID tray-type tunnel inventory machine independently developed by JYL-Tech. Built around UHF RFID technology and integrated with precision mechanical design, multi-sensor arrays, electromagnetic shielding, and automatic control systems, it completely eliminates missed reads and cross-reads during supply-chain circulation. Paired with warehouse inbound/outbound management software, it overcomes the limitations of barcode management and achieves true item-level inventory for apparel, linen, wine, utilities and other industries — reducing labor costs while dramatically improving throughput and accuracy.

Product Features

1. High identification efficiency: reads 500+ RFID tags in just 3–5 seconds;
2. Professional antenna RF reflection design eliminates tag blind spots and missed reads;
3. Strict electromagnetic shielding and RF optimization ensure operator safety and up to 100% reading accuracy;
4. Automatic double-opening roller shutter door enables fully automated unattended scanning;
5. Reader interchangeable between domestic (E710) and imported (IMPINJ R420/R700), supports secondary software development.

Product Specifications

Item		Specifications
Model	JYL-T403	
Product Type	RFID Tray-type Tunnel Inventory Machine	
Air Interface Protocol	EPC Global Class1 Gen2 / ISO 18000-6C	
RFID Frequency	860MHz ~ 960MHz (region-selectable)	
Frequency Mode	Fixed / frequency hopping, 10 hopping channels	
RFID Reader	Domestic module with imported E710 chip (optional IMPINJ R420 / R700)	
Output Power	16 ~ 31±1 dBm	
Tag Capacity	E710: 200+ pcs / IMPINJ R420, R700: 500+ pcs	
Reading Speed	3 ~ 5 seconds	
Reading Mode	Stationary	
Working Mode	Interval T-cycle / continuous / external trigger	
Touchscreen	15.6" capacitive, embedded or arm-mounted (optional)	
Programmable Controller	Domestic PLC	
Circuit Control System	PLC-based	
Industrial PC	J6412 / 8GB + 128GB	
RFID Antennas	4 groups × 12 dBi antennas	
Photoelectric Sensors	2 groups	
Max. Load Capacity	Unlimited	
Door Opening Speed	2 seconds	
Efficiency Mode	Manual	
Overall Dimensions	1730(W) × 2210(D) × 2250(H) mm (excluding screen)	
Interior Chamber	1400(W) × 2000(D) × 1950(H) mm	
Max. Carton Size	1350(W) × 1700(D) × 1750(H) mm	
Auto Shielding Door	Gravity-type roller shutter	
Weight	Approximately 600 KG	
Operating Temperature	-20°C ~ +60°C	
Storage Temperature	-10°C ~ +60°C	
Operating Humidity	20% ~ 95% RH (non-condensing)	
Input Power	220VAC ±10%, 50±3 Hz	
Power Consumption	1000 W	
Enclosure Material	Carbon steel with powder coating	
Shielding Performance	10 ~ 30 cm	