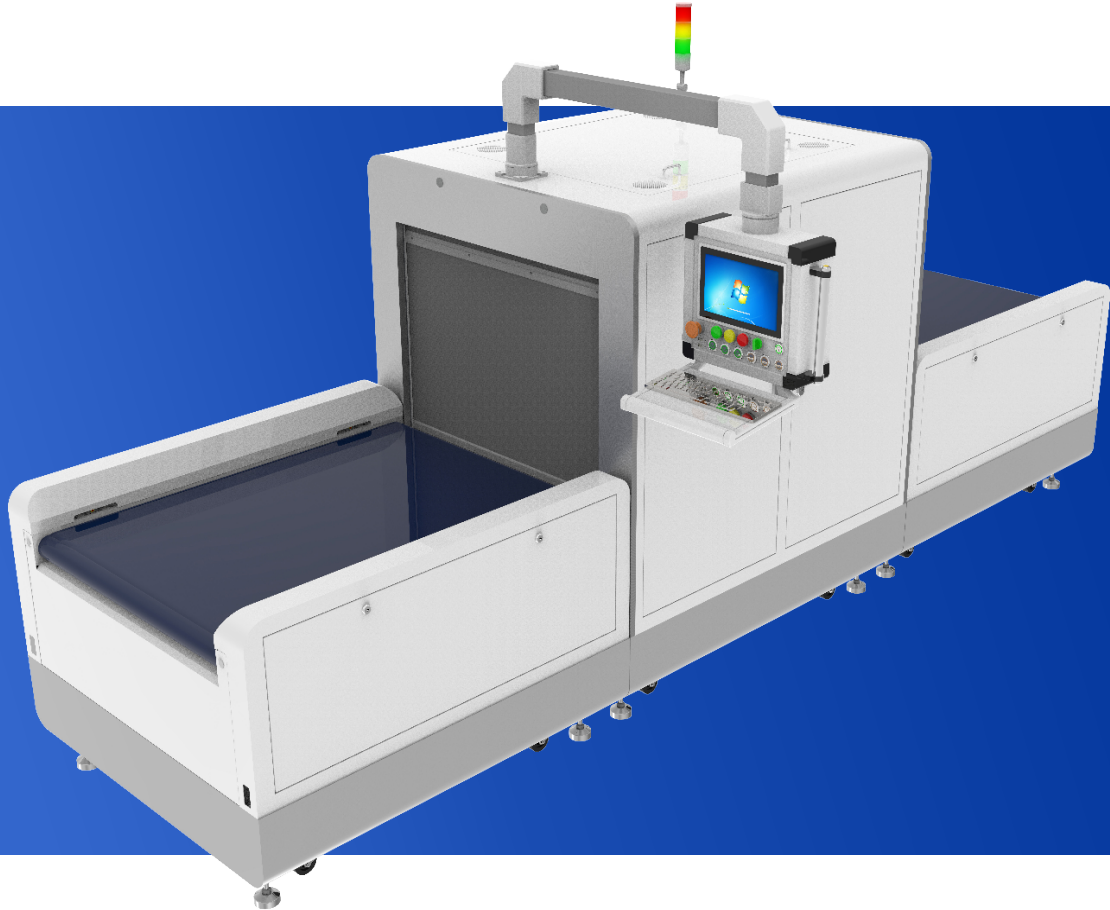# LFM-TD01
RFID Small-sized Tunnel Machine

LFM-TD01 is an RFID tunnel machine independently developed and designed by our company. It takes radio frequency identification technology as the core and combines mechanical design, automation, various sensors, electromagnetic shielding and other methods to solve the problem of high error rate and low efficiency by traditional manual counting method when do the operations of product inventory, goods receipt and shipment review. At the same time, a list is generated on the display screen in real time when the tunnel machine is working, and data verification is performed to provide corresponding prompts and alarms to facilitate management personnel's verification, which greatly saves labor costs and improves work efficiency.

Industry Application: The tunnel is mainly used for SKU identification, such as warehouse management of fashion, leather goods and luggage, alcohol, electric power, product inventory etc.
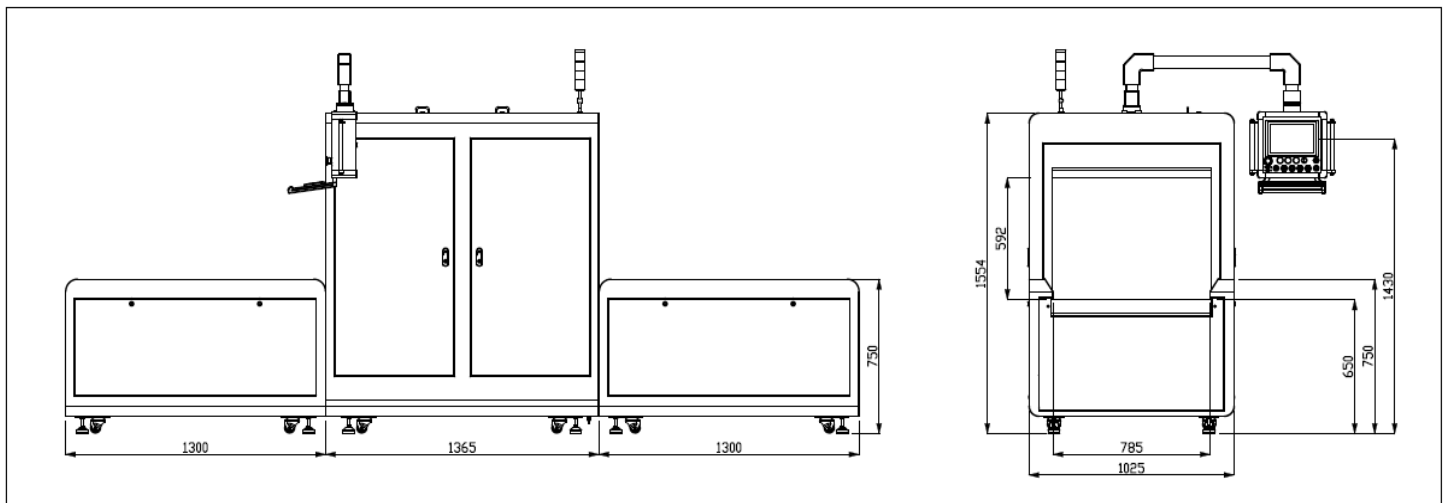
Product Features

- The identification efficiency is high. It can read 400+pcs items at a time within 3 seconds, and a list can be generated in real time on the display screen.

- Professional motion control and mechanical design fully solves the problem of tag miss-reading.

- Strict electromagnetic shielding design and radio frequency optimization can eliminate the harm of radio frequency radiation to the human body while ensuring tag reading accuracy.

- The industrial computer software can control the functions of the whole machine and monitor the running status of all equipment. It is also equipped with external mechanical buttons to facilitate the operator to control the working status of the equipment at any time.

- Industrial plastic mesh conveyor line design fully solves the problem of belt offset maintenance.

- There is maintenance door on both sides, which facilitates the equipment maintenance.

- Support optional sorting module for abnormal boxes to meet the needs of different users, and support customers in secondary development of application software.

Product Specifications

Main Specifications	
Model No.	LFM-TD01
Performance Specifications	
Communication Protocol	ISO 18000-6C
Working Frequency	840-960MHz
RFID Frequency Mode	Fixed Frequency / Frequency Hopping
Reader Output Power	33dbm±1dbm
Conveyor Speed	Default 20m/min, adjustable up to 30m/min
Conveyor Load Bearing	80kg
Reading Efficiency	6-10 boxes/min
Number of Tag Reading	≥ 400pcs
Reading Speed	Within 3 seconds
Reading Mode	Motionless/Motion
Working Mode	Loop/Trigger

Screen	10.1-inch capacitive touch screen
Operating System	Windows/Android
Automatic Conveyor Line	Three sections can be controlled independently, and the speed can be adjusted in sections
Door Opening Speed	1.2s
Physical Environment	
Overall Machine Size	1025mm*1554mm*3965mm
Inner Size	785mm*592mm*1365mm
Front/Rear Conveyor Size	1025mm*750mm*1300mm
Maximum Box Size	785mm*592mm*1065mm
Working Temperature	-20℃ ~ 60℃
Storage Temperature	-20℃ ~ 60℃
Working Voltage	AC 220V
Working Power	Maximum power: 800W; Standby power: < 100w
Shell Material	Sheet metal spray

Product Dimension