

RFID TUNNEL TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS	
Main Tunnel Dimensions:	1500 mm (L) × 960 mm (W) × 1650 mm (H)
Auxiliary Conveyors:	2 units positioned at both ends of the main tunnel
Auxiliary Conveyor Size:	720 mm (W) × 800 mm (L)
Electric RF Shielding Door:	Specialized metal-woven fabric for RFID signal shielding
Frame Material:	Metal (Steel/ Aluminum)
Belt/ Roller Material:	Rubber/ Metal
Conveyor load capacity:	80 kg
Operating Temperature:	10°C to +45°C
Humidity:	10% - 95% (non-condensing)
Conveyor Belt Speed:	Slow 0.05 - Fast 0.5 m/s
Motor Power:	90 W for each
Power Supply:	220V / 380V (optional)
Weight:	230 kg ±15 kg
PERFORMANCE	
Reading Accuracy:	99,9% reads stacked or overlapping tags reliably
Reading Speed:	Up to 1200 tags/second
Package Passage Dimensions:	1200 mm (L) × 650 mm (W) × 750 mm (H)
Maximum Package Weight:	Up to 70 kg
Maximum Counting Capacity:	Up to 25 packages/minute (Actual throughput may vary depending on package size and spacing)
RFID READER SPECIFICATIONS	
RFID Standard:	UHF Gen2 / ISO 18000-6C
Operating Frequency:	865.6 - 867.6 MHz
RF Output Power:	+10 to +31.5 dBm
Maximum Receive Sensitivity:	Up to -84 dBm
Minimum Return Loss:	≥10 dB
RFID ANTENNA SPECIFICATIONS	
Antenna Type:	Circular polarization
Gain:	9 dBi
Operating Frequency:	865 – 867 MHz