

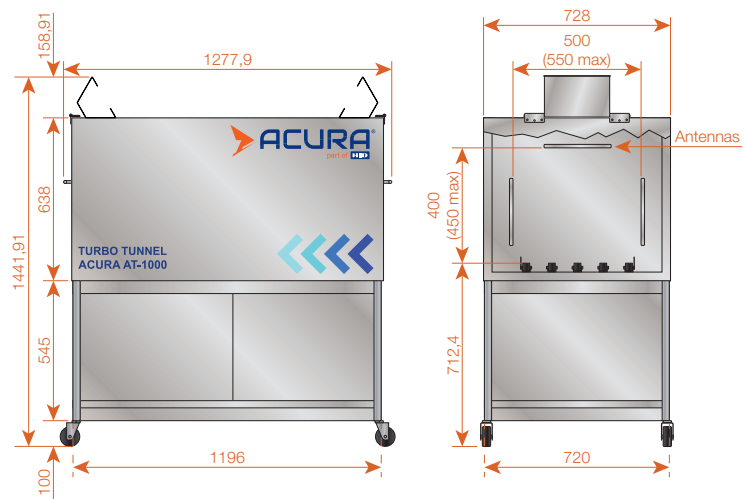


Developed with high technology, the ACURA AT-1000 Tunnel guarantees excellent performance in RFID data processing. It allows easy handling and movement, being equipped with 4 integrated Slim antennas and the sophisticated high-performance R700 reader, making it suitable in several RFID segments within logistics processes, from inbound to outbound and verification. Its structure is resistant, produced with high quality materials that provide excellent performance and agility in operations. The AT-1000 is a confinement tunnel with two manual door. It must be used with the doors closed to ensure the reading of the products without RF signal leakage. The conveyor belts are also manual, requiring the box to be pushed through the tunnel.

RFID tunnel with superior performance and maximum efficiency in optimizing logistics processes

- Advanced technology and high performance in RFID reading;
- Ease of handling and mobility;
- Sturdy, high-quality structure;
- Efficient RF signal containment;
- Excellent for logistics applications.

Dimensions [mm]





Performance

Weight capacity	Until 50 kg
Passage efficiency ¹	2 up to 5 boxes per minute
Reading efficiency ¹	3 up to 5 seconds
Belt model	Manual belt (boxes must be manually pushed to pass through the tunnel; not automatic)

Reading mode	Static with closed doors
Security perimeter	1 meter

Communication

Communication interface ²	Ethernet - the tunnel has 2 external RJ45 network connectors: Conector 1: Connection with RFID reader Conector 2: Prepared for computer connection
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RFID Reader

Protocol	EPCglobal UHF Gen2 v2 / ISO 18000-63 RFID
Frequency	UHF - 902 to 928 MHz
Antenna ports	4 ports
Transmission power	PoE+: 10 - 33 dBm max PoE: 10 - 30 dBm max
Read rate	1100 tags/sec

RFID Antenna

Gain	8.0 ± 0.5 dBic
Frequency	902 - 928 MHz

3 dB Beam Width	Azimuth: 65° typ / Elevation: 65° typ
Polarization	LHCP
Interface (connector)	SMA female
Dimensions	260.5 x 260.5 x 13 mm
Weight	0.55 kg

Electrical

Power ³	110 V / 220 V (Bivolt)
Power connector	AC cable with 4-pin M16 connector for connection to the structure

Physical

External Dimensions	730 x 1285 x 1224 mm
Box Dimensions	ideal: 400 x 400 mm / max: 550 x 450 mm
Conveyor belt height from the floor	720 mm
Weight	≈142 kg

Environmental

Operation temperature	-40°C to 60°C
Humidity	98%

Accessories

Optional accessories ⁴	15.6" touch monitor, signal light with 3 colors (green, yellow, and red), 1D/2D scanner
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¹ The passage and reading efficiency may vary depending on the process speed and the category of the items inside the box.
² The computer is not included with the structure; a free connector is provided, prepared for future installations by the customer.
³ The structure has internal bi-volt power supplies for component operation.
⁴ Optional accessories are not included with the product and must be requested at the time of purchase if desired.

Purchase Code:

100.608: ACURA Tunnel AT-1000