

JT-L10 Automatic Thermal Paper Roll Cartoning Machine



Parameters

Model	JT-L10
Power Supply	415V 50HZ 6Kw
Air Supply	$\geq 6\text{Kg/cm}^2$ 0.45m ³ /min
Applicable Products	Boxed, bottled, canned, bagged items, etc.
Applicable Cartons	L260-480*W180-400*H150-400mm
Product Arrangement	Customized gripper design based on product (single-layer or multi-layer configurable)
Speed	6–8 cycles/min, 1 layer per cycle
Infeed Height	850 ± 30mm

Outfeed Height	650 ± 30mm
Carton Erecting Method	Vertical erecting
Carton Loading Mechanism	Servo coordinate pick-and-place system
Carton Magazine Capacity	1000 mm in length
Tape Used	W48–75 mm × L900 yards, core diameter φ75 mm
Tape Corner Length	50-70mm
Machine Dimensions	L3500 × W3000 × H2600 mm (subject to final design)
Machine Weight	1200Kg
Machine Material	Main structure in powder-coated carbon steel; material-contact parts in stainless steel

Application

This machine integrates the functions of unpacking, packing and sealing. It has a compact structure, high integration, and small footprint. It also has the characteristics of high automation, fast packing speed, and high safety. It is particularly suitable for lightweight products in multiple industries such as medicine, food, daily chemicals, and office supplies.

Technical Features

High Level of Automation: Utilizing PLC control and touchscreen operation, the machine displays operating status and error alarms, automatically completing the entire packaging process, including unpacking, product loading, and sealing, significantly reducing labor.

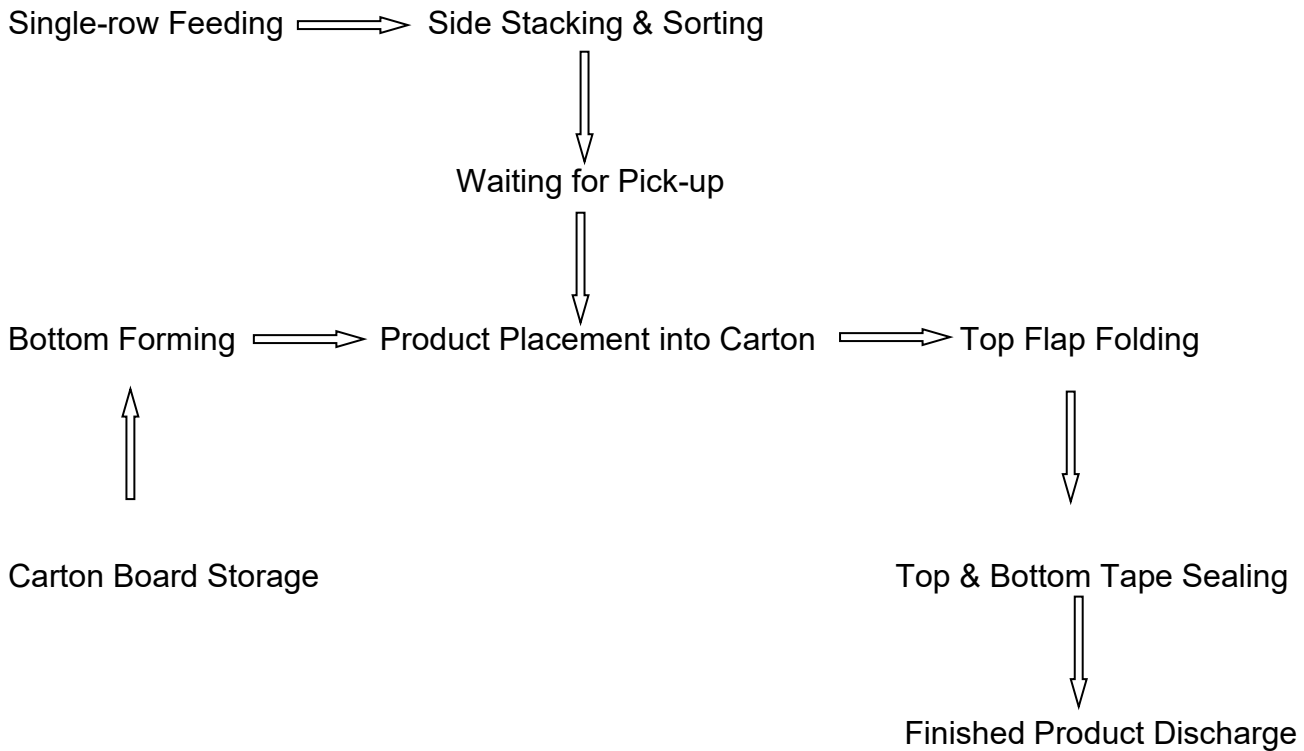
Compact Structure: It occupies a small footprint and boasts a high level of integration, integrating multiple functions into one, saving production space.

Adaptability: It can package cartons and products of varying sizes according to customer needs, and can also use tape or hot melt adhesive.

Easy Operation and Maintenance: Key components and electrical elements are primarily from renowned brands, ensuring high reliability and low maintenance costs. The removable modular design also facilitates installation and maintenance.

Safety: The machine features a safety door that automatically shuts down upon opening.

Action Flow Chart



Working Principle

Carton Erecting Station:

A servo-controlled suction cup system opens stacked cartons one by one and transfers them to the packing area.

Carton Loading Station:

Products are conveyed to an alignment zone for sorting and positioning. Then, a pusher moves them onto the loading platform, where a servo-driven gripper picks and places them into the carton.

Carton Sealing Station:

After loading, the carton passes through a sealing section where flap folding and top & bottom taping are completed sequentially during transport.

Machine Details



Side Stacking & Sorting

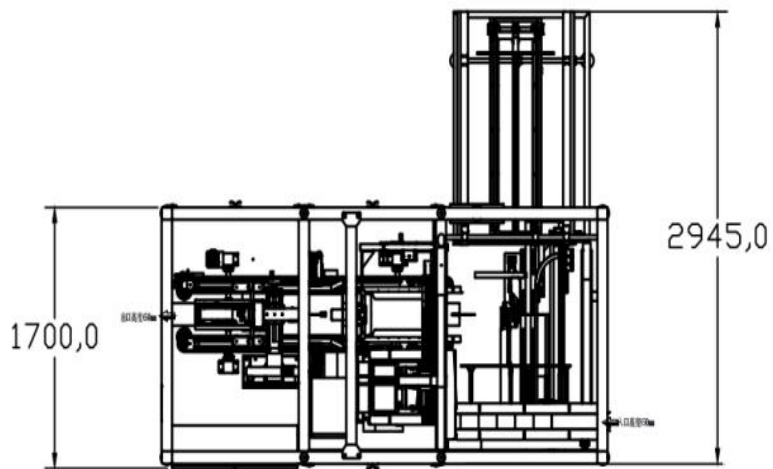
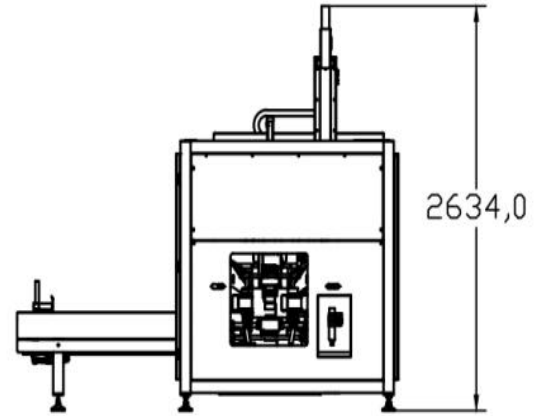
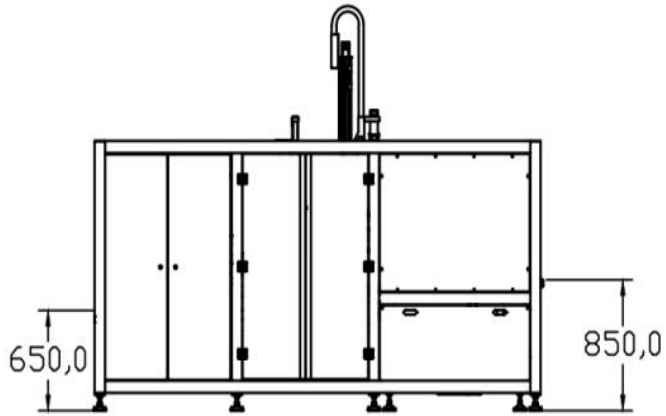


Carton Board Storage



Top & Bottom Tape Sealing

Machine Layout



Configuration

Name	Brand
Touch Screen	INOVANCE
PLC	INOVANCE
Load Switch, Circuit Breaker, Intermediate Relay, Contactor	Schneider
Frequency Inverter	INOVANCE
Switching Power Supply	MEAN WELL
Proximity Switch, Photoelectric Switch, Reflective Photoelectric Switch	SICK
Illuminated Start Button, Illuminated Stop Button, Reset Button, Emergency Stop Button	Schneider
Three-color Warning Light	OUEN
Terminal Block, Terminal End Cover, Fixed Bridge, Terminal Holder	Phoenix Contact
Cylinder, Solenoid Valve, Magnetic Switch, Air Treatment Unit	AIRTAC
Suction Cup, Vacuum Generator	CHINA
Servo Motor	INOVANCE
Gear Motor	TBI (Taibang)
Main Frame Material	Powder-coated Carbon Steel
Material-contact Parts	Stainless Steel

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