

Rotary Secondary Vacuum Sealing Machine For Polymer Lithium Battery Packaging

Item Number: RB39



Introduction

Rotary secondary vacuum sealing machine for polymer lithium battery packaging, combining dual-fixtured alternating processing, precision positioning, controlled thermal sealing, electrolyte recovery, and -95 kPa vacuum capability with adjustable cycle timing and touchscreen fault indication.

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Application	Description	Key Benefit
Polymer lithium battery secondary sealing	Performs the stated vacuum extraction, gas-bag piercing, and final thermal sealing sequence for polymer lithium battery packaging.	Integrates the required process stages within one controlled vacuum sealing operation.
Pouch-cell pilot-line processing	Supports repeated loading, vacuum sealing, and unloading of pouch cells within the maximum stated cell size.	Dual fixtures allow the next cell to be prepared while the other fixture is in the sealing area.
Battery research laboratory packaging	Provides adjustable sealing temperature and time for laboratory workflows requiring setup changes and manual adjustment capability.	Manual function and adjustable operating values facilitate equipment adjustment during process work.
Mixed cell-format battery production	Handles cells of different sizes within the stated envelope and uses spring-plus-cylinder compression for frequent cell-type changes.	The compression arrangement is intended to keep vacuumed cells flatter when product changes occur frequently.
Electrolyte-filled cell vacuum packaging	Uses an integrated rotary-table recovery slot and filtered vacuum piping during the vacuum packaging process.	Helps collect electrolyte and protect the vacuum system from electrolyte return.
Controlled seal-edge placement	Applies automatic sealing-head correction for packaging operations where the position of the seal relative to the pouch edge is important.	Supports a specified seal-edge distance of no more than 0.5 mm from the cell packaging-case edge.
Production equipment setup and fault handling	Provides touchscreen error display and manual operating functions for adjustment and operational review.	Gives operators direct access to fault information and manual setup functions at the equipment.

Parameter	Specification
Site-facing identifier	RB39
Equipment application	Polymer lithium battery vacuum packaging process
Workstation configuration	Dual-station rotary table with alternating fixtures
Rotary-table positioning accuracy	+/-0.05 mm
Rotary-table movement	180 degrees per start-button cycle
Rotary-table speed control	Variable-frequency drive control; rotary-table speed can be adjusted according to use conditions
Sealing-head operating temperature range	Room temperature to 250 degrees C
Temperature control accuracy	+/-2 degrees C
Sealing-head sealing time	Adjustable, 1-99 seconds
Time accuracy	+/-0.1 second
Upper and lower copper heat-sealing-head width	6 mm; customizable according to user requirements

Parameter	Specification
Maximum sealable cell size	350 (L) x 140 (W) x 12 (T) mm
Cell vacuum compression method	Spring and cylinder combined pressing
Rotary-table electrolyte feature	Integrated electrolyte recovery slot; easy to clean and recover electrolyte
Vacuum-pipeline protection	Electrolyte filtration device in the vacuum pipeline to help prevent electrolyte return to the vacuum system and corrosion
Upper sealing-bar structure	Pneumatic cylinder double-linkage structure for parallel upper sealing-bar movement
Piercing-knife distance from sealing bar	Within 10 mm
Piercing-knife configuration	Dense arrangement; applicable to large and small cells
Sealing-head alignment	Upper and lower sealing heads include automatic correction function
Seal-edge placement	Distance from sealed edge to cell packaging-case edge: no more than 0.5 mm
Vacuum capability	-95 kPa or above
Vacuum pump	Customer supplied
Fault indication	Touchscreen error display function
Setup operation	Manual function for equipment adjustment
Frame material	Aluminum alloy
Surface finish	Sheet metal with baked gray-white paint; machined parts with rust-prevention treatment