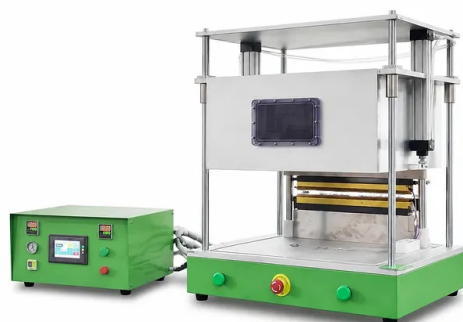


Three In One Resting Pre Sealing And Secondary Sealing Machine

Item Number: RB29



Introduction

Three in one resting pre sealing and secondary sealing equipment combines vacuum electrolyte absorption controlled hot pressing and repeatable pouch battery packaging for dependable cell manufacturing workflows in laboratory pilot line and research environments with adjustable pressure and temperature.

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Application	Description	Key Benefit
Pouch cell electrolyte filling	Supports vacuum-assisted electrolyte absorption after electrolyte injection into aluminum-plastic pouch cells, helping electrolyte combine more completely with electrode sheets.	Integrates vacuum treatment with the battery packaging workflow.
Pouch cell post-injection resting	Provides an adjustable 0-9999S resting stage after injection before evacuation and thermal pre-sealing.	Allows the dwell period to be set for the relevant cell-processing procedure.
Vacuum pre-sealing of pouch cells	Evacuates the pouch-cell aluminum-plastic housing and performs pneumatic thermal pre-sealing after the resting operation.	Combines evacuation and hot sealing in the same equipment.
Pouch battery secondary sealing	Includes a secondary-sealing function for pouch battery packaging operations.	Consolidates secondary sealing with resting and pre-sealing functions.
Cylindrical battery electrolyte processing	Applies vacuum-assisted electrolyte absorption capability to cylindrical battery electrolyte-filling work.	Supports electrolyte and electrode-sheet contact in a vacuum environment.
Battery R&D and pilot cell development	Provides adjustable time, pressure, temperature, and sealing-duration settings for laboratory cell process development.	Gives engineering teams defined process controls for evaluating battery packaging conditions.

Parameter	Specification
Site-facing identifier	RB29
Functions	Secondary sealing, resting, and pre-sealing
Applicable battery types	Pouch battery and cylindrical battery
Primary process	Vacuum-assisted electrolyte absorption; vacuum evacuation and thermal pre-sealing of pouch-cell aluminum-plastic housing after electrolyte injection and resting
Chamber material	Aluminum alloy
Chamber properties	Corrosion-resistant; structurally strong
Resting time	0-9999S adjustable
Resting pressure	Adjustable
Vacuum level	More than -95KPa (buyer provides vacuum pump)
Sealing-head material	Brass
Sealing-head temperature	Room temperature to 250°C, adjustable
Temperature-control accuracy	±2°C

Parameter	Specification
Heat-sealing pressure	0-8Kg/cm2 adjustable
Heat-sealing time	0-99 seconds adjustable
Sealing-edge width	5mm; other widths can be customized
Sealing-knife length	400mm
Sealing-head parallelism verification	With triple carbonless copy paper, seal impressions are uniform at sealing-head air pressure of 0.6MPa and temperature of 200°C
Compressed-air consumption	Approximately 0.2L compressed gas per seal
Pneumatic operating speed	≥180 cycles/h
Heating element	500w heating tube
Power consumption during heating	Approximately 1KW
Power supply	220V/50Hz
Compressed-air source	0.4-0.6Mpa
Glove-box compressed-air requirement	When used inside a glove box, the cylinder power source must use the same working gas used inside the glove box
Machine-section dimensions	L710mm x W560mm x H640mm
Electrical-box dimensions	L450mm x W400mm x H260mm
Weight	Approximately 60KG