

Pouch Cell Secondary Vacuum Final Sealing Machine

Item Number: RB38



Introduction

Improve pouch cell finishing with a secondary vacuum final sealing machine featuring automatic piercing adjustable heat sealing pressure precise temperature control and flexible setup for reliable battery packaging with robust chamber construction.

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Application	Description	Key Benefit
Lithium-ion pouch-cell R&D	Performs the puncturing and secondary vacuum final-sealing operation for experimental pouch cells after the relevant internal cell process steps.	Creates a controlled final package-sealing stage for repeatable laboratory cell preparation.
Battery pilot-line processing	Supports repeated pouch-cell finishing where operators need adjustable temperature, pressure, time, and vacuum conditions for process development.	Allows the sealing recipe to be set around defined material and process requirements.
Formation-process pouch finishing	Applies a secondary vacuum final seal after the required puncture step in workflows that prepare pouch cells for later handling or evaluation.	Combines puncturing and final sealing in one dedicated station.
Electrode-material evaluation cells	Produces sealed pouch-cell samples used to assess active materials, binders, conductive additives, or electrolyte-related cell configurations.	Helps maintain consistent package processing across comparative cell builds.
Solid-state and advanced battery research	Supports pouch-format experimental cells where final package closure must be performed under controlled vacuum and heat-sealing conditions.	Adjustable process settings support development work across changing experimental specifications.
Academic battery laboratories	Provides a compact equipment option for research groups producing pouch cells in limited laboratory space.	Integrates core finishing functions while using standard 220V/50Hz power and compressed air.
Pouch-package process optimization	Enables evaluation of sealing temperature, pressure, time, and sealing thickness uniformity within the stated operating limits.	Gives technical teams controllable variables for refining the final-sealing procedure.
Small-batch cell fabrication	Supports small-scale production of pouch batteries with differing product dimensions that remain within the maximum sealing-size capability.	Convenient format adjustment reduces complexity when handling multiple supported battery specifications.

Parameter	RB38 Specification
Product function	Pouch battery puncturing and secondary vacuum final sealing
Chamber material	Aluminum alloy
Chamber properties	Corrosion resistant; structurally firm
Vacuum degree	≤-96Kpa (buyer to provide vacuum pump)
Sealing-head temperature	Room temperature□ 250°C, adjustable
Temperature-control accuracy	±1.5°C
Heat-sealing pressure	0□ 7Kg/cm2, adjustable
Heat-sealing time	0□ 99 seconds, adjustable
Sealing-edge width	5±0.4mm (according to customer requirements)
Sealing-width length	340mm
Maximum sealing-edge size	310mm

Parameter	RB38 Specification
Sealing thickness range	60~300um
Sealing thickness accuracy	Sealing thickness difference at any two points <15um
Air consumption	Approximately 0.2L compressed gas per sealing operation
Compressed-air operating speed	≥180 times/h
Heating element	500w heating tube
Power consumption during heating	Approximately 0.6KW
Power supply	220V/50Hz
Compressed-air source	0.5~0.7Mpa
External dimensions	L600mmW650mmL800mm
Sealing-head material	Copper
Upper and lower sealing-head drive	Cylinder driven through two linear guide sleeves
Chamber-cover drive	Cylinder driven through linear guide sleeves
Puncturing capability	Automatic puncturing function
Supported product formats	Different battery specifications with simple, convenient adjustment