

Pouch Cell Secondary Vacuum Sealing Machine With Automatic Puncture

Item Number: RB37



Introduction

Pouch cell secondary vacuum sealing machine with automatic puncture, adjustable temperature, pressure, sealing time, compact construction, and precise battery packaging performance

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Application	Description	Key Benefit
Pouch Lithium Battery Assembly	Performs automatic puncture and secondary vacuum end sealing after pouch cell filling and preliminary sealing operations.	Supports consistent battery closure and reduces residual gas during final packaging.
Battery Research and Development	Provides adjustable temperature, pressure, sealing time, and sealing dimensions for experimental pouch cell formats.	Enables researchers to evaluate process parameters without changing the complete equipment platform.
Pilot Battery Production	Supports repeated sealing operations for small-batch and pilot-scale cell manufacturing.	Delivers repeatable process conditions with a compact footprint and practical operating speed.
Solid State and Advanced Battery Research	Can be used for pouch-type cells requiring controlled vacuum sealing during materials and cell development.	Helps maintain stable packaging conditions for experimental cell architectures.
Battery Quality and Process Validation	Allows controlled adjustment of sealing pressure, temperature, and dwell time during process verification.	Makes it easier to identify suitable sealing windows and compare sample performance.
University and Industrial Laboratories	Provides a dedicated pouch sealing solution for battery engineering, materials science, and academic research facilities.	Combines straightforward operation, flexible adjustment, and low installation demand.

Parameter	RB37-200	RB37-300
Product function	Automatic puncture and secondary vacuum end sealing for pouch batteries	Automatic puncture and secondary vacuum end sealing for pouch batteries
Chamber material	Aluminum alloy; corrosion-resistant and structurally robust	Aluminum alloy; corrosion-resistant and structurally robust
Vacuum level	≤ -96 kPa; vacuum pump supplied by buyer	≤ -96 kPa; vacuum pump supplied by buyer
Sealing head temperature	Room temperature to 250°C, adjustable	Room temperature to 250°C, adjustable
Temperature control accuracy	±1.5°C	±1.5°C
Heat-sealing pressure	0-7 kg/cm², adjustable	0-7 kg/cm², adjustable
Heat-sealing time	0-99 seconds, adjustable	0-99 seconds, adjustable
Sealing width	5 ± 0.4 mm, according to customer requirements	5 ± 0.4 mm, according to customer requirements
Maximum sealing size	200 mm	300 mm
Sealed thickness range	60-300 μm	60-300 μm
Sealing thickness accuracy	Difference in sealing thickness between any two points <15 μm	Difference in sealing thickness between any two points <15 μm
Air consumption	Approximately 0.2 L compressed air per seal	Approximately 0.2 L compressed air per seal

Parameter	RB37-200	RB37-300
Pneumatic operating speed	≥180 cycles/h	≥180 cycles/h
Power	800 W	800 W
Power supply	220 V / 50 Hz	220 V / 50 Hz
Compressed air source	0.5–0.7 MPa	0.5–0.7 MPa
Overall dimensions	L520 × W400 × H600 mm	L500 × W350 × H500 mm
Automatic puncture	Included	Included
Sealing head drive	Pneumatic cylinder with two linear guide sleeves	Pneumatic cylinder with two linear guide sleeves
Chamber drive	Pneumatic cylinder with linear guide sleeve guidance	Pneumatic cylinder with linear guide sleeve guidance