

200Mm Rotary Pouch Cell Top Side Heat Sealing Machine

Item Number: RB20



Introduction

200mm rotary pouch cell top and side heat sealing machine delivers independently adjustable temperature time pressure and stroke control for consistent square lithium battery edge packaging in production and research.

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Application	Description	Key Benefit
Lithium-ion pouch-cell R&D	Seals the top and side edges of square pouch cells during laboratory-scale cell fabrication and process evaluation.	Independently adjustable temperature, time, pressure, and stroke support controlled investigation of heat-sealing conditions.
Pilot-scale pouch-cell production	Supports repeatable edge-sealing cycles when transitioning a pouch-cell process from development to pilot-line operation.	Rotary four-station handling enables loading, automatic sealing, and removal in an organized sequence.
Square pouch-cell top sealing	Produces the top-edge soft seal using a 3.5 mm wide sealing bar equipped with a tab preheating block.	The dedicated top-sealing configuration addresses pouch-cell top-edge packaging requirements.
Square pouch-cell side sealing	Performs side-edge hard sealing using a 6 mm wide sealing bar for user-defined acceptance products.	Separate side-seal temperature, time, pressure, and stroke adjustments provide process-specific control.
Battery process parameter development	Allows teams to evaluate sealing dwell time and heat settings across top and side packaging operations.	Temperature is adjustable up to 250 degrees C and sealing time is adjustable from 0 to 99.9 seconds for each operation.
Cell assembly workstations	Integrates into pouch-cell assembly workflows after a battery is placed in a 200 x 200 mm tray.	Automatic transfer from the rotary tray into the sealing position reduces manual movement during the active sealing step.
Repetitive production sealing	Handles process-dependent operation at up to 500 cycles per hour.	The automated cycle and simultaneous top-side sealing support higher-throughput pouch-cell edge packaging where process conditions allow.

Parameter	Specification
Product item number	RB20
Function	Heat sealing of top edges and side edges of square pouch lithium battery cells
Operating process	Load battery into tray; press the left and right front operating control buttons; the machine automatically transfers the battery in the rotary table to the sealing position; lower and upper sealing bars heat seal the battery edges; after the specified pressure-holding time, sealing bars return to their original positions; remove the previously sealed battery while the next battery is transferred
Rotary structure	Four-station rotary structure
Heat-sealing head configuration	Two heat-sealing head groups
Top and side sealing	Top and side sealing can be performed simultaneously for square pouch batteries
Soft and hard sealing process	Achieved through free replacement of sealing bars
Power supply	220VAC/50Hz
Total power	2.3 KW
Heating tube power	500W per bar

Parameter	Specification
Compressed air requirement	$\geq 0.6\text{MPa}$
Battery tray specification	200 x 200 mm
Compatible battery thickness	$\leq 15\text{ mm}$
Sealing bar length	250 mm
Top sealing bar	3.5 mm wide soft seal with tab preheating block
Side sealing bar	6 mm wide hard seal; user provides acceptance-product sealing width
Top sealing temperature	Ambient temperature to 250 degrees C, separately adjustable
Side sealing temperature	Ambient temperature to 250 degrees C, separately adjustable
Maximum heat-sealing temperature	$< 250\text{ degrees C}$, adjustable
Top sealing time	0 to 99.9 seconds, separately adjustable
Side sealing time	0 to 99.9 seconds, separately adjustable
Top sealing pressure	Adjustable
Side sealing pressure	Adjustable
Top cylinder stroke	Adjustable
Side cylinder stroke	Adjustable
Heat-sealing speed	$\leq 500\text{ cycles/hour}$; actual speed depends on process parameters
Control system	Touchscreen display and PLC control
Empty-tray operation	Corresponding upper and lower heat-sealing bars do not perform heat sealing when no battery is loaded in the tray
Safety device	Front safety light curtain; machine immediately resets when body access enters the working area during operation
Equipment weight	Approx. 330 Kg
Overall dimensions	860 x 860 x 1650mm
Coating color	Computer white