

Top Side Sealing Machine For Pouch Lithium Battery Packaging

Item Number: RB24



Introduction

Top side sealing machine for pouch lithium batteries delivers adjustable temperature pressure and timing with copper heat heads for clean consistent aluminum plastic film seals in laboratory cell manufacturing workflows.

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Application	Description	Key Benefit
Pouch lithium battery top sealing	Seals the top edge of pouch cells, including the stated top-seal format with gas bag on the 200mm configuration.	Combines heating and pneumatic pressure to fuse aluminum-plastic film at the aligned cell edge.
Pouch lithium battery side sealing	Seals side edges on pouch cells within the applicable side-seal specification of the 200mm configuration.	Produces a flat, uniform seal mark without requiring a separate top-versus-side sealing die change.
Battery cell laboratory assembly	Supports manual sealing steps in laboratory cell fabrication after an operator positions the cell beneath the sealing heads.	Foot-switch activation gives the operator direct control of the sealing cycle.
Battery R&D process development	Supports adjustment of temperature, pressure, sealing time, edge position, and seal width for defined packaging processes.	Enables process parameters to be set around the aluminum-plastic film and pouch-edge requirement.
Aluminum-plastic film packaging	Applies heat through copper sealing heads so the film softens toward a near-molten state before pressure fusion.	Uses direct heat conduction at the packaging interface for the thermal pressing operation.
Variable pouch-cell format handling	Accommodates different battery product specifications with simple adjustment.	Allows top and side sealing work without adjusting or replacing the sealing heads.
Controlled seal-width processing	Supports the standard 5mm±0.4 seal width and selectable 2-10mm widths, with other widths available through sealing-knife replacement.	Aligns the sealing profile with the specified pouch-edge design.
High-frequency laboratory sealing	Performs at a stated air-operated working speed of at least 400 cycles per hour.	Supports repeated sealing activity where cycle throughput is a relevant process requirement.

Parameter	RB24-200	RB24-300
Applicable specification	Side seal ≤180mm; top seal 180mm (including gas bag)	/
Sealing knife length	200mm	300mm
Gas bag edge width	15~90mm	15~90mm
Seal width	Standard 5mm±0.4 (2□ 10mm selectable); replace sealing knife for other widths	Standard 5mm±0.4 (2□ 10mm selectable); replace sealing knife for other widths
Side sealing-edge thickness	60□ 300um (depending on aluminum-plastic film thickness)	60□ 300um (depending on aluminum-plastic film thickness)
Top tab sealing-edge thickness	200□ 700um (depending on aluminum-plastic film thickness)	200□ 700um (depending on aluminum-plastic film thickness)
Heat-sealing temperature	Room temperature□ 250°C (temperature freely set)	Room temperature□ 250°C (temperature freely set)
Temperature control accuracy	± 2°C	± 2°C
Distance from main body to heat-sealing edge	1~5±0.4mm adjustable	1~5±0.4mm adjustable
Sealing time	Standard 2S-3S (0-99s adjustable)	Standard 2S-3S (0-99s adjustable)

Parameter	RB24-200	RB24-300
Seal thickness accuracy	Thickness difference at any two sealing points <15um	Thickness difference at any two sealing points <15um
Compressed air	5□ 7kg/cm2	5□ 8kg/cm2
Air-operated working speed	≥400 cycles/hour	≥400 cycles/hour
Power supply	AC220V/50Hz	AC220V/50Hz
Power	1KW	0.5KW
Overall dimensions	L430x W330x H480mm	L500x W430x H480mm
Equipment weight	35Kg	50Kg
Safety protection	Protective device provided to prevent high-temperature burns	Protective device provided to prevent high-temperature burns
Material support	Material loading table provided	Material loading table provided
Operating functions	Automatic and manual operating functions	Automatic and manual operating functions
Service access	Convenient cleaning and copper mold replacement	Convenient cleaning and copper mold replacement