

200Mm Wide Pouch Cell Top Side Sealing Machine

Item Number: RB23



Introduction

200mm wide pouch cell top and side sealing machine delivers adjustable copper heat sealing precise temperature control and pneumatic pressure for uniform aluminum plastic film seals in lithium battery production and research lines laboratories and pilot scale cell fabrication.

[Learn More](#)

Application	Description	Key Benefit
Pouch Lithium-Ion Cell Top Sealing	Seals the top edge of aluminum-plastic laminate pouch cells, including top seals with an air bag within the stated applicable size.	Produces a compression-bonded top seal with controlled heat, pressure, and timing.
Pouch Cell Side Sealing	Processes side edges of pouch-format lithium batteries after electrode-stack or cell-component placement.	Supports consistent side-edge geometry without replacing the sealing head.
Battery R&D Cell Assembly	Supports laboratory fabrication of pouch cells where researchers need to adjust thermal conditions, pressure, and seal duration for process evaluation.	Enables controlled parameter changes from a compact bench-scale workstation.
Pilot-Scale Battery Manufacturing	Performs repeatable sealing operations for trial runs and pre-production pouch-cell workflows.	Delivers a working speed of at least 400 cycles per hour for efficient repetitive processing.
Aluminum-Plastic Film Package Development	Evaluates sealing behavior for packaging films with different thicknesses and pouch configurations.	Adjustable temperature, pressure, time, and seal-edge position support process development.
Cell Packaging Process Training	Provides a clear manual loading and foot-switch operating sequence for controlled operator training.	Helps users learn correct cell alignment, sealing-head engagement, and safe part removal.
Multi-Size Pouch Cell Processing	Accommodates different battery product specifications with simple adjustment rather than routine sealing-head changeover.	Reduces setup effort when processing varied pouch-cell dimensions.

Parameter	RB23 200mm Seal Length Variant	RB23 300mm Seal Length Variant
Applicable specification	Side seal ≤180mm; top seal 180mm (including air bag)	/
Sealing knife length	200mm	300mm
Air-bag edge width	15~90mm	15~90mm
Seal width	Standard 5mm±0.4; 2□ 10mm optional; sealing knife can be changed for other widths	Standard 5mm±0.4; 2□ 10mm optional; sealing knife can be changed for other widths
Side-seal edge thickness	60□ 300um (depending on aluminum-plastic film thickness)	60□ 300um (depending on aluminum-plastic film thickness)
Top-tab seal-edge thickness	200□ 700um (depending on aluminum-plastic film thickness)	200□ 700um (depending on aluminum-plastic film thickness)
Heat-sealing temperature	Room temperature□ 250℃ (freely settable)	Room temperature□ 250℃ (freely settable)
Temperature-control accuracy	± 2℃	± 2℃
Cell body to heat-seal edge	1~5±0.4mm adjustable	1~5±0.4mm adjustable

Parameter	RB23 200mm Seal Length Variant	RB23 300mm Seal Length Variant
Sealing time	Standard 25-35; 0-99s adjustable	Standard 25-35; 0-99s adjustable
Seal thickness accuracy	Difference in sealing thickness at any two points <15um	Difference in sealing thickness at any two points <15um
Compressed air	5□ 7kg/cm2	5□ 8kg/cm2
Pneumatic operating 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 operation functions	Automatic and manual operation functions
Cleaning and serviceability	Convenient to clean and replace copper molds	Convenient to clean and replace copper molds
Heating principle	Resistance heating tube transfers heat to copper sealing head; heat conduction acts on aluminum-plastic film under pressure to complete compression bonding	Resistance heating tube transfers heat to copper sealing head; heat conduction acts on aluminum-plastic film under pressure to complete compression bonding
Drive and guidance	Cylinder-driven upper head with two linear guide sleeves	Cylinder-driven upper head with two linear guide sleeves
Frame construction	Aluminum-profile frame with geometrically designed sheet-metal structure	Aluminum-profile frame with geometrically designed sheet-metal structure