

Pouch Cell Corner Sealing Machine

Item Number: RB28



Introduction

Pouch cell corner sealing machine for bottom corner pre sealing of lithium battery cells delivers adjustable temperature precise head parallelism automated foot switch operation and flexible support for compact pouch cell dimensions with repeatability.

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Application	Description	Key Benefit
Pouch lithium battery cell bottom-corner pre-sealing	Positions a pouch cell against the battery baffle with its bottom corner facing the corner-sealing head before the automatic sealing action.	Provides a dedicated process for the specified bottom-corner pre-sealing step.
Battery R&D pouch-cell preparation	Supports controlled corner sealing for pouch-cell formats within the stated L x W x H compatibility range.	Allows development teams to assess a defined corner-sealing process on compact cell dimensions.
Pilot-scale pouch-cell process verification	Uses foot-switch initiation after manual cell placement and alignment at the work station.	Gives operators a clear, repeatable operating sequence for process verification work.
Aluminum-plastic film packaging setup	Configures the sealing-thickness groove according to the aluminum-plastic film thickness required for the application.	Aligns the groove provision with the supplied film-thickness requirement.
Pouch-cell format change assessment	Accommodates cells within (10-200) x (5-200) x (2-15), allowing teams to compare intended products against the stated envelope.	Simplifies early compatibility checks for length, width, and thickness.
Battery laboratory workstation integration	Operates from 220V/50Hz power and compressed air of at least 0.6 MPa at 6 L/Min.	Provides clear utility information for laboratory installation planning.
Controlled corner-profile formation	Uses an R3 mm 1/4 circular arc corner sealing-head geometry with a 250 mm heating element.	Establishes a defined head profile and thermal component for the corner-sealing operation.
Pouch-cell packaging process control	Applies adjustable temperature up to 250°C with a stated deviation of $\pm 2.5^{\circ}\text{C}$ and sealing-head parallelism of ± 0.02 mm.	Gives process teams measurable thermal and alignment parameters to review.

Parameter	Specification
Item Number	RB28
Equipment application	Bottom-corner pre-sealing of pouch lithium battery cells
Operating process	Place the battery in the corner-sealing station; position the battery side close to the battery baffle; align the bottom corner directly with the corner-sealing head; press the foot switch to start the machine; the machine automatically completes the corner-sealing action
Applicable product size, L x W x H	(10-200) x (5-200) x (2-15)
Heating element length	250mm
Sealing angle	R3mm 1/4 circular arc corner
Capacity	400-600EA
Temperature	$\leq 250^{\circ}\text{C}$ adjustable, deviation $\pm 2.5^{\circ}\text{C}$
Sealing-head parallelism	$\pm 0.02\text{mm}$

Parameter	Specification
Sealing-thickness groove	Determined according to the aluminum-plastic film thickness required
Power supply	220V/50Hz
Power	1.8KW
Compressed air	≥0.6MPa, 6L/Min
Equipment weight	Approximately 35Kg
Equipment dimensions, L x W x H	413x365x530mm