

Split Type Top Side Pouch Cell Sealing Machine

Item Number: RB35



Introduction

Split top and side pouch cell sealing machine delivers adjustable temperature pressure and dwell control for uniform aluminum plastic film seals in lithium battery research and pilot production with copper thermal heads glovebox-ready separation and pneumatic guided alignment.

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Application	Description	Key Benefit
Lithium-ion pouch-cell top-edge sealing	Seals the top edge of aluminum-plastic film packaging during pouch-cell fabrication using heat conduction and controlled compression.	Produces a bonded top seal with adjustable temperature, pressure, and sealing time.
Lithium-ion pouch-cell side-edge sealing	Seals pouch-cell side edges using the same sealing-head arrangement used for top-edge work.	Supports two essential edge-sealing operations without replacing the mold or sealing head.
Glovebox-based battery research	Places the separated heat-sealing section inside a glovebox for pouch-cell work conducted in a controlled environment.	Enables integration with laboratory glovebox workflows through the split-type configuration.
Battery material and cell-development laboratories	Provides a configurable sealing step for laboratories evaluating different pouch-cell specifications and process settings.	Adjustable pressure and 0-99s sealing time support development-oriented process adjustment.
Pilot-scale pouch-cell assembly	Supports repeated top and side sealing tasks where operators require simple adjustment between different battery specifications.	Reduces changeover effort because different cell sizes do not require sealing-head replacement.
Pouch-cell packaging process verification	Allows teams to establish and review the effect of set temperature, pressure, and dwell time on the final package edge.	Current temperature display and adjustable process settings improve parameter visibility during trials.
Aluminum-plastic film thermal bonding	Applies heat from copper heads and compression force to soften aluminum-plastic packaging material toward fusion for pressure bonding.	Efficient copper heat transfer supports energy-conscious thermal sealing.
Academic battery fabrication training	Provides a clear heat-and-pressure sealing method for teaching pouch-cell packaging operations in laboratory environments.	Straightforward controller, regulator, and time settings make key sealing variables accessible.

Parameter	Specification
Product Item Number	RB35
Primary Application	Top-edge and side-edge sealing of lithium-ion pouch batteries
Sealing Method	Resistance heating tube transfers heat to copper sealing heads; heat conduction acts on aluminum-plastic film under pressure for compression fusion bonding
Sealing Configuration	Top sealing and side sealing without changing the mold
Heat-Sealing Section	Split type; heat-sealing part can be placed in a glovebox
Upper Mold Soft-Sealing Temperature	Standard 180°C
Lower Mold Temperature	Standard 180°C
Temperature Adjustment	Upper and lower sealing-head temperatures adjustable through temperature-controller panel buttons; current temperature value displayed
Sealing Pressure Adjustment	Adjustable by pressure-regulating valve
Drive Method	Pneumatic cylinder drive for upper and lower sealing heads

Parameter	Specification
Guide Structure	Two linear guide sleeves
Sealing Time	Standard 2S-3S (0-99s adjustable)
Sealing Head Material	Copper
Cell Compatibility	Suitable for battery products of different specifications; simple adjustment without sealing-head replacement
Compressed Air	$\geq 5\text{kg/cm}^2$
Power Supply	AC220V/50Hz
Power	0.5KW
Equipment Weight	35Kg
Seal Appearance	Flat and uniform sealing marks; neat sealed-edge appearance