

Linear Top And Side Sealing Machine For Pouch Lithium Battery Packaging

Item Number: RB26



Introduction

Linear top and side sealing machine for dual-tab pouch lithium batteries, combining servo fixture transfer, adjustable temperature control, precision sealing, automated safety protection, and 4 PPM output for repeatable packaging operations.

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Application	Description	Key Benefit
Dual-tab pouch lithium battery packaging	Performs the top-sealing and one-side-sealing sequence for pouch cells with two tab exits after the cell is inserted into a formed aluminum-plastic film housing.	Integrates the required sealing stations into one linear fixture-transfer process.
Pouch-cell top sealing	Uses a cylinder-controlled sealing head to produce dual top seals or a single top seal according to the selected operation.	Supports precise top-sealing execution with adjustable temperature and time.
Pouch-cell side-edge sealing	Transfers the fixture from the top-sealing position to the side-sealing position to complete one side seal.	Maintains a defined sequence from top seal to side seal before fixture return.
Aluminum-plastic film housing assembly	Supports the manual loading workflow in which formed film is positioned in a fixture and the cell is placed into the film housing.	Fixture positioning and pressure-plate clamping help establish the package before sealing.
Battery pilot-line process development	Enables users to set sealing temperature, compensation, and sealing time while observing alarm, manual, and automatic functions.	Provides adjustable process parameters for controlled packaging trials.
Repeatable pouch-cell production cycles	Repeats loading, fixture clamping, sealing, return, and manual unloading in a defined operational loop.	Supports a rated equipment capacity of 4 PPM with output statistics.

Parameter	Specification
Site-facing identifier	RB26
Equipment function	Top sealing and side-edge sealing process for dual-tab pouch lithium batteries
Applicable top-seal specification	50-320mm (including air-bag position)
Applicable side-seal specification	100-250mm (tab height less than 50MM)
Top sealing-head length	≥320MM
Side sealing-head length	≥250MM
Top seal width	8mm
Side seal width	10mm
Seal-dimension customization	Seal dimensions can be customized according to the acceptance reference supplied by the user
Sealing-head temperature	Room temperature-260°C adjustable
Temperature compensation	Can be set
Temperature control accuracy	±2°C
Sealing-head parallelism verification method	Triple carbonless copy paper

Parameter	Specification
Sealing-head parallelism verification air pressure	0.4~0.6Mpa
Sealing-head parallelism verification temperature	180℃
Sealing-head parallelism result	Pressed sealing impression is uniform
Sealing time	0-99.9 seconds, adjustable
Sealed-edge thickness	±0.02mm
Equipment capacity	4PPM
Power supply	AC220V/50Hz
Power	6.8KW
Compressed air	≥0.6MPa, 15L/min (provided by user)
Equipment weight	Approximately 400kg
Overall dimensions, length x width x height	To be determined
Spray color	International warm gray 1C
Top-sealing actuation	Cylinder mechanism
Fixture transfer	Servo-driven
Top-sealing configuration	Dual top sealing or single top sealing
Control system	Programmable logic controller (PLC) automatic control
Operator interface	Touch-screen human-machine dialogue
Temperature alarms	Low-temperature and high-temperature alarms
Operating modes	Manual and automatic running functions
Protection functions	Door-switch protection and fixture detection protection
Additional functions	Fault alarm and production output statistics
Frame material	Aluminum-alloy profile frame
Changeover requirements	Replace the corresponding top sealing head, tab positioning block, fixture transition backing plate, and related parts