300Mm Polymer Battery Simple Top Side Sealing Machine

Item Number: RB27

Introduction

300mm polymer battery top side sealing machine delivers foot pedal pneumatic heat sealing with adjustable 1 to 99 second timing temperature alarm and 5mm copper sealing edge for reliable laboratory battery packaging operations across demanding research and production workflows.

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Application	Description	Key Benefit
Polymer battery top-side sealing	Seals the top side of polymer battery packaging after the battery is positioned on the lower sealing-head fixture.	Supports a battery sealing length up to 300mm.
Polymer battery side sealing	Performs a controlled heat-sealing cycle where a side seam requires pressure, heat, and a preset dwell period.	Freely adjustable 1-99 second sealing time.
Battery laboratory packaging	Supports laboratory battery sealing procedures using foot-pedal activation, pneumatic head movement, and automatic head return.	Clear operator workflow with automatic completion of the timed cycle.
Battery R&D process setup	Enables evaluation of sealing-time settings within the specified range as part of battery packaging process development.	±0.1 second timing accuracy for controlled time selection.
Battery sample preparation	Seals battery samples that fit within the maximum 300mm sealing-length capability.	Defined copper sealing interface with a standard 5mm sealing edge.
Customized battery packaging workflows	Supports projects requiring a sealing-edge width different from the standard copper-head configuration.	Sealing-edge width can be customized to customer requirements.
Pneumatic battery sealing stations	Integrates into work areas with compressed-air supply available at 0.6MPa or above.	Uses cylinder-driven upper sealing-head movement for the sealing cycle.

Parameter	Specification
Product Item Number	RB27
Equipment Description	Suitable for the battery sealing process. After the temperature reaches the set temperature, the operator places the battery on the lower sealing-head fixture and presses the foot switch. The cylinder operates, the upper sealing head presses down, the timer starts, and the upper sealing-head cylinder automatically rises after the sealing time is complete.
Temperature Alarm Function	Included; prevents incorrect operation
Maximum Battery Sealing Length	300mm
Sealing Time	1-99 seconds, freely adjustable
Time Accuracy	±0.1 seconds
Sealing-Head Working Temperature Range	MAX 2500C
Temperature Control Accuracy	±20C
Copper Sealing-Head Edge Width	5mm; customizable according to customer requirements

Parameter	Specification
Heating Tube Power	800 W
Equipment Weight	Approximately 70KG
Configured Power Requirement	AC220V 1.6KW
Compressed Air Requirement	0.6MPa or above

Step	Equipment Action	Operator Action
1	The sealing head reaches the set temperature condition.	Confirm the required temperature condition before starting the sealing operation.
2	The lower sealing-head fixture receives the battery.	Place the battery on the lower sealing-head fixture.
3	The pneumatic cylinder is triggered.	Press the foot switch.
4	The upper sealing head presses downward and the timer begins counting.	Maintain the selected sealing-time setting for the intended operation.
5	The timed sealing period ends and the upper sealing-head cylinder rises automatically.	Remove or proceed with the completed battery sealing operation.

Selection Consideration	Reference-Backed Capability	Procurement Relevance
Battery size compatibility	Maximum sealing length of 300mm	Confirms the maximum supported sealing length for the planned battery format.
Process timing	1-99 seconds, freely adjustable; ±0.1 seconds accuracy	Provides a selectable and accurately timed sealing dwell parameter.
Sealing interface	5mm copper sealing edge, customizable on request	Establishes the standard edge width while allowing a customer-specific configuration.
Heating configuration	MAX 2500C working temperature range; ±20C control accuracy	Defines the stated thermal operating and control parameters for the sealing head.
Facility connection	AC220V 1.6KW and compressed air at 0.6MPa or above	Identifies the electrical and compressed-air utilities needed for installation.
Heating component	800 W heating tube	States the heating-tube power used by the equipment.
Unit handling	Approximately 70KG	Provides the stated equipment weight for installation planning.