

Semi Automatic Aluminum Plastic Film Forming Machine For Polymer Lithium Batteries

Item Number: RB14



Introduction

Semi automatic aluminum plastic film forming machine for polymer lithium batteries delivers stable deep pocket forming, precise dimensions, wrinkle controlled PP layers, rapid tooling changes, and safeguarded operation in compact battery production environments.

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Application	Description	Key Benefit
Polymer lithium battery pouch-shell forming	Forms aluminum-plastic laminate film into pouch shells for polymer lithium batteries before subsequent cell assembly operations.	Controlled shell geometry with pocket depth up to 6 mm.
Soft-pack lithium battery R&D	Supports experimental pouch-shell preparation when teams need to assess pocket dimensions, film behavior, and forming quality.	Quick mold replacement and draw-depth adjustment simplify setup changes.
Pilot-scale pouch-cell production	Produces formed shells in a semi-automatic cycle after cut film sheets are manually located in the mold.	Rated output of 200-400 EA/H supports controlled pilot workflows.
Single-pocket four-side-seal pouch preparation	Forms shells with a maximum punch-shell size of L150mm * W120mm for the specified single-pocket four-side-seal configuration.	Supports the larger stated single-pocket format.
Single-pocket folded pouch preparation	Forms shells with a maximum punch-shell size of L100mm * W100mm in the single-pocket folded configuration.	Provides a defined format for folded pouch processing.
Double-pocket folded pouch preparation	Forms shells with a maximum punch-shell size of L100mm * W100mm in the double-pocket folded configuration.	Supports dual-pocket folded shell layouts within the stated envelope.
Pouch-shell dimensional verification	Produces formed shells where length, width, and thickness can be reviewed against the specified forming tolerances.	Clear tolerance values support process and quality evaluation.
Aluminum-plastic film forming process development	Enables comparison of draw depth, mold dimensions, and formed-edge condition using the required mold configuration.	Precision mold design targets clean corners and surrounding edges without fishtail wrinkles or collapsed corners.

Parameter	Specification
Product Item Number	RB14
Application	Punch-shell forming of aluminum-plastic film for soft-pack lithium batteries
Forming configuration	Semi-automatic
Maximum punch-shell size, single-pocket four-side-seal type	L150mm *W120mm
Maximum punch-shell size, single/double-pocket folded type	L100mm *W100mm
Punch-shell depth	<=6mm; Pocket without damage, PP layer without wrinkles
Maximum aluminum-plastic film sheet size	L240mm *W160mm
Equipment capacity	200-400 EA/H
Power source	3T
Power supply	AC220V/50Hz

Parameter	Specification
Power	0.3KW
Air source	0.5MPa-0.7MPa
Equipment weight	Approximately 150kg
Equipment dimensions, length x width x height	Approximately 460x320x925mm
Mold section	Determined according to punch-shell size
Mold/mold-core roughness	0.4
Upper and lower mold plane flatness	0.02mm
Mold-core flatness	0.02mm
Forming length tolerance	+/-0.2
Forming width tolerance	+/-0.2
Forming thickness tolerance	+/-0.1
Structural arrangement	Four guide posts
Safety protection	Light curtain and protective enclosure
Construction materials	Imported mold material, high-strength chrome steel, and alloy aluminum
Surface treatment	Environmentally compliant electroplating and baked paint