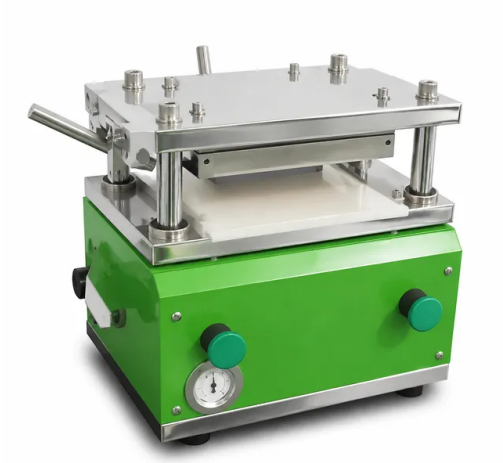
Pneumatic Aluminum Plastic Film Forming Machine For Pouch Lithium Battery Shell Forming

Item Number: RB19



Introduction

Pneumatic aluminum plastic film forming machine for pouch lithium battery shell forming delivers adjustable one ton pressure six millimeter depth and precise wrinkle controlled pockets for laboratory research prototyping and sample preparation workflows with safe dual button operation.

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Application	Description	Key Benefit
Pouch lithium-battery R&D	Forms aluminum-plastic laminate shells for experimental pouch lithium cells before cell assembly.	Provides a dedicated, adjustable forming step for research-scale cell-development workflows.
Battery sample preparation	Produces formed sheet-film pockets for sample cells and laboratory evaluation builds.	Sheet-based operation is appropriate for controlled sample preparation rather than high-volume continuous production.
Cell-format feasibility studies	Supports evaluation of pocket geometries within the stated maximum length, width, and depth limits.	Fast mold replacement and depth adjustment help teams adapt the forming setup during format studies.
Electrode and cell integration trials	Prepares pouch shells used when integrating developed electrodes into experimental soft-pack battery structures.	Clean corners and reduced wrinkle-related defects support orderly downstream handling of formed shells.
University battery laboratories	Provides a compact pneumatic forming tool for teaching, thesis research, and controlled laboratory experiments.	Straightforward operation and a small equipment footprint suit shared academic laboratory environments.
Advanced-materials battery prototyping	Enables researchers to prepare laminate enclosures while evaluating materials in pouch-cell configurations.	Adjustable pressure and speed allow controlled forming conditions for development-oriented work.
Pilot sample-cell workflows	Supports repeatable pocket formation for limited-quantity pilot samples where process consistency is important.	Four-column guidance and ±0.05 mm forming accuracy support consistent dimensional results.
Quality-focused pouch-shell preparation	Forms pockets where the film must remain intact and the PP layer must remain free of wrinkles under the specified conditions.	The stated forming result targets no pocket damage and no PP-layer wrinkles within the applicable film size.

Parameter	Specification
Model	RB19
Equipment principle	Pneumatic-driven shell-pocket forming for aluminum-plastic film used in soft-pack lithium batteries
Applicable process	Aluminum-plastic film shell-pocket forming
Applicable film format	Sheet aluminum-plastic film
Maximum shell-pocket length	65 mm
Maximum shell-pocket width	50 mm
Maximum shell-pocket depth	≤6 mm
Maximum aluminum-plastic film length	160 mm
Maximum aluminum-plastic film width	105 mm
Forming result requirement	Pocket without damage; PP layer without wrinkles

Parameter	Specification
Maximum forming pressure	1 T
Compressed-air reference pressure	0.5 MPa
Forming pressure adjustment	Adjustable
Forming speed adjustment	Adjustable
Drive method	Cylinder drive
Electrical power requirement	No electrical power required
Forming accuracy	±0.05 mm
Guiding structure	Four guide columns
Start control	Dual start buttons
Mold change	Simple and quick
Stretch-depth adjustment	Simple and quick
Mold material	Imported Japanese mold material and high-strength chromium steel
Surface treatment	Environmental electroplating and baked-paint treatment
Equipment dimensions	Approx. L420 mm × W280 mm × H510 mm
Equipment weight	Approx. 100 kg