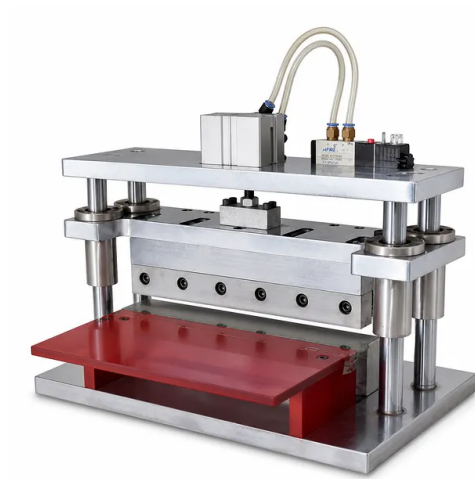


400Mm Aluminum Plastic Film Pouch Top Side Edge Trimming Machine Battery Pneumatic Trimmer

Item Number: RB13



Introduction

Improve pouch cell finishing with a 400mm aluminum plastic film pneumatic edge trimming machine delivering adjustable 2.5-8mm trim widths, ± 0.2 mm precision, sharp HSS blades, and foot-pedal control for efficient top-side seal edge processing in battery manufacturing and laboratory production.

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Application	Description	Key Benefit
Pouch-cell battery R&D	Trims the top-side sealed edge of aluminum plastic film after the pocket has been formed during laboratory cell-development workflows.	Provides a defined 2.5-8 mm adjustable trimming width for experimental pouch formats.
Lithium-ion pouch-cell pilot lines	Supports post-forming edge finishing before later assembly or handling operations on prototype and pilot-scale cells.	Foot-pedal actuation enables direct operator control while the cell is held at the positioning plate.
Aluminum plastic film pocket processing	Removes edge material from film packages after pocket forming where a top-side seal edge requires trimming.	400 mm cutter length accommodates the stated cutter-size requirement.
Battery packaging process stations	Serves as a dedicated finishing station for top-side edge cutting in a pouch-cell packaging sequence.	Cylinder-driven punching delivers a defined mechanical cutting action.
Cell sample preparation	Processes small-batch battery samples that require controlled edge-width adjustment after pouch formation.	Positioning stop edge allows the required trim width to be set from 2.5 mm to 8 mm.
Battery quality and process evaluation	Produces trimmed pouch edges for teams evaluating packaging steps and edge-dimension consistency.	± 0.2 mm trimming precision gives a clear dimensional performance reference.
Research laboratory battery assembly	Supports hands-on pouch-cell assembly workflows where the operator positions each battery manually before cutting.	One-hand placement and foot-switch initiation simplify the cutting sequence.
Pouch-cell manufacturing support	Performs repeatable top-side seal-edge trimming where cutter alignment and tool condition are important to routine operation.	Ball guide pillars and guide bushes maintain high-accuracy upper-cutter guidance.

Parameter	Specification
Product Item Number	RB13
Primary Function	Trimming of the top-side sealed edge after aluminum plastic film pocket forming
Cutting Method	Cylinder punching method
Suitable Cutter Length	400 mm
Trimming Precision	± 0.2 mm
Trimming Width	2.5-8mm adjustable
Trimming Width Adjustment	Adjustable through positioning stop edge
Upper Cutter Guidance	Die-style ball guide pillar and guide bush guidance
Cutter Clearance	Zero clearance between upper and lower cutters
Upper Cutter Material	High-speed steel

Parameter	Specification
Lower Cutter Material	High-speed steel
Cutter Edge Condition	Sharp cutting edge
Cutter Hardness	HRC $\geq$ 58
Cutter Actuation Control	Foot switch control
Workpiece Positioning	Battery positioning plate mechanism
Mechanical Components	Upper cutter mechanism; lower cutter mechanism; guide pillar and guide bush mechanism; battery positioning plate mechanism
Electrical Components	Solenoid valve; foot switch; other electrical components
Air Supply	0.5MPa or above
Power Supply	AC220V/50HZ
Power	500W
Equipment Weight	Approximately 40KG

Step	Operation	Equipment Element Involved
1	Place the battery onto the positioning plate.	Battery positioning plate mechanism
2	Set the required trim width through the positioning stop edge within the specified adjustment range.	Positioning stop edge
3	Hold the battery in the positioned location.	Battery positioning plate mechanism
4	Press the foot pedal to initiate cutter movement.	Foot switch and solenoid valve
5	Complete the top-side seal-edge trimming operation by pneumatic punching.	Cylinder, upper cutter, and lower cutter mechanisms

Construction Area	Reference-Backed Configuration	Process Relevance
Upper cutting assembly	Upper cutter mechanism with ball guide pillar and guide bush guidance	Controls the path of the upper cutter during cutting action.
Lower cutting assembly	Lower cutter mechanism	Forms the paired cutting arrangement with the upper cutter.
Guide system	Die-style ball guide pillars and guide bushes	Provides high guiding accuracy for the upper cutter.
Cutting-tool material	Upper and lower cutters made from high-speed steel	Provides the stated sharp cutting edges and HRC $\geq$ 58 hardness specification.
Positioning system	Battery positioning plate mechanism and adjustable positioning stop edge	Establishes workpiece placement and trim-width adjustment.
Pneumatic control system	Cylinder punching method, solenoid valve, and foot switch	Provides the actuation and operator-control method.