

50Mm To 600Mm Aluminum Plastic Film Slitting And Cutting Machine

Item Number: FQ05



Introduction

Precision aluminum plastic film slitting and cutting machine processes 50mm to 600mm pouch cell packaging film with adjustable tension accurate longitudinal cutting and synchronized rewind control for reliable production preparation in lithium battery manufacturing operations and research lines.

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Application	Description	Key Benefit
Pouch Cell Packaging Film Preparation	Slits full-width aluminum plastic film into widths used in soft-pack lithium battery packaging processes.	Converts rolls up to 600 mm wide into process-ready packaging-film strips.
Lithium Battery R&D Lines	Prepares aluminum plastic film for research-scale soft-pack cell work where different film widths are required.	Adjustable 50 mm to 600 mm slitting width accommodates changing development requirements.
Battery Pilot Production	Supports controlled conversion of packaging film before downstream pouch-cell production steps.	+/-0.5 mm slitting accuracy provides a defined width-control specification.
Multi-Strip Film Processing	Uses eight blade sets to longitudinally divide a loaded material roll into separate film strips.	Enables multiple slit strips to be produced from a single roll-cutting operation.
Wide-Roll Aluminum Plastic Film Conversion	Processes rolls with a maximum loading width of 600 mm and maximum loading diameter of 350 mm.	Provides a defined capacity envelope for full-roll material preparation.
Tension-Sensitive Film Rewinding	Rewinds slit aluminum plastic film using two synchronously driven winding rollers and adjustable tension.	Adjustable 0 to 25 N tension supports controlled handling during collection.
Variable-Speed Packaging Film Cutting	Operates the knife roller at an adjustable speed of 0 to 30 m/min according to actual conditions.	Allows the processing speed to be set for the active material-handling requirement.

Parameter	Specification
Site-facing item identifier	FQ05
Equipment function	Longitudinal slitting and roll cutting of aluminum plastic film for soft-pack lithium batteries; after blade slitting of a full roll up to 600 mm wide, two motor-synchronized winding rollers rewind the film according to the set width
Applicable material	Aluminum plastic film for soft-pack lithium battery packaging
Slitting method	Blade-based longitudinal slitting / roll cutting
Slitting width	Minimum 50 mm--600 mm
Slitting accuracy	+/-0.5 mm
Blade quantity	8 sets
Blade material	SKD11
Maximum loading width	600 mm
Maximum loading diameter	350 mm

Parameter	Specification
Tension control	Adjustable according to actual conditions, 0-25 N
Cutting-roll speed	Adjustable according to actual conditions, 0-30 m/min
Collection speed	Adjustable according to actual conditions
Winding configuration	Two winding rollers synchronously driven by motors
Primary control components	Variable-frequency motor and winding motor
Knife-roller drive	High-power motor
Winding drive	Active winding with speed-regulation motor
Control characteristics	Stable control performance; adjustable fast and slow operation; convenient and intuitive operation
Power supply	220V/50Hz
Power	2.5KW
Compressed air	$\geq 0.6\text{MPa}$
Equipment dimensions L x W x H	Approx. 1150 x 1040 x 1040 mm
Frame platform base	45# steel plate with chrome-plated surface
Frame structure	Painted cover plates, painted reinforcing plates, and painted square-tube main frame
Safety provision	Equipment safety protection plate
Inverter	Taichuang
Speed-regulation motor	Taili
Pneumatic components	AirATC / Xingchen