

Lithium Battery Electrode Roll To Roll Slitting Machine

Item Number: FQ09



Introduction

Precision roll to roll slitting machine for lithium battery electrode sheets delivers burr controlled foil cutting adjustable widths automatic winding tension and PLC operated production consistency across thin coated materials and functional film converting lines with tungsten carbide blades.

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Application	Description	Key Benefit
Lithium battery electrode-sheet preparation	Slits continuous electrode-sheet rolls into defined strip widths for downstream cell-fabrication workflows.	± 0.09 mm slitting accuracy and ≤ 25 μ m burr condition support controlled electrode-strip preparation.
Metal foil conversion	Processes metal foil rolls into multiple continuous narrow strips using upper and lower circular knife cutting.	Adjustable knife engagement and speed ratio provide setup control for foil cutting operations.
Optical film processing	Converts optical film rolls where edge appearance and dimensional uniformity are important process considerations.	Clean finished strips without burrs, waves, or pressure marks are specified as the target slitting outcome.
Functional-film manufacturing	Handles other functional films through a continuously fed and rewind multi-strip process.	Adjustable feed and discharge angles accommodate different material types and thickness values.
Thin coated material slitting	Processes roll materials within the specified 100-300 μ m cutting-thickness range.	Defined thickness capability helps buyers match the unit to their material envelope.
Multi-width converting operations	Produces strip formats across a 20-280 mm range by changing spacer sleeves between circular knives.	Multiple knife-sleeve sets enable more convenient recurring width changes.
Precision material rewinding	Rewinds slit material using automatic tension control on separate upper and lower winding shafts.	Independent adjustment within 50 N supports controlled winding conditions.

Parameter	Specification
Product Item Number	FQ09
Slitting Method	Single-blade rolling cut
Cutter Type	Upper and lower circular knife pair cutting
Width Adjustment	Adjusted by changing spacer sleeves; for multiple models, multiple knife-sleeve sets are recommended for more convenient blade changes
Cutable Thickness	100~300 μ m
Slitting Blade	Ultra-fine-grain alloy tungsten steel, diameter $\Phi 100$ mm
Slitting Width	Adjustment range 20~280mm, customizable
Burr Condition	≤ 25 μ m
Slitting Accuracy	± 0.09 mm
Knife Engagement	0.2~0.4mm adjustable, dial indicator display
Slitting Speed	Max. 4m/min
Winding Tension Control	Automatic control; upper and lower shafts independently adjustable within 50N

Parameter	Specification
Control System	PLC control, HMI operation
Structure	Single upright-plate structure, independent knife holder, equipped with dust-removal device
Knife and Material Speed Setting	Knife speed and material line-speed ratio adjustable
Material Path Adjustment	Feed and discharge angles adjustable for materials of different types and thickness values
Power Supply Voltage	Single-phase 220VAC±10%
Power Supply Frequency	50Hz/60Hz
Power	1kW
Recommended Operating Temperature	25±3°C
Recommended Operating Humidity	30~90RH
Operating-Environment Requirement	No vibration and electromagnetic interference
Dimensions	L850mmW800mmH700mm
Net Weight	Approx. 580Kg