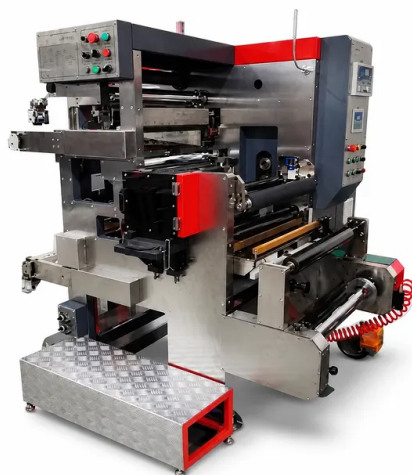


Continuous Lithium Battery Electrode Sheet Slitter 7 To 500 Mm Slitting Width

Item Number: FQ04



Introduction

Continuous lithium battery electrode sheet slitter with 7 to 500 mm slitting width, stable web handling, edge trim collection, dust extraction, and precise roll-to-roll processing for coated electrodes across lithium iron phosphate, ternary, graphite, and oxide electrode systems

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Application	Description	Key Benefit
Lithium Iron Phosphate Electrode Slitting	Processes roll-pressed lithium iron phosphate positive or negative electrode sheets into specified strip widths for subsequent cell fabrication.	Supports repeatable preparation across a 7 to 500 mm slitting-width range.
Lithium Cobalt Oxide and Lithium Manganese Oxide Materials	Slits coated aluminum or copper foil electrodes used in lithium cobalt oxide and lithium manganese oxide systems.	Accommodates multiple established cathode material systems on one processing platform.
Ternary and Nickel Cobalt Manganese Electrodes	Handles rolled ternary and lithium nickel cobalt manganese oxide electrode sheets before cell assembly or further laboratory processing.	Provides controlled continuous feeding, configured cutting, and separated roll collection.
Lithium Titanate Electrode Preparation	Processes lithium titanate electrode rolls for research, development, and pilot-scale battery workflows.	Combines adjustable slitting speed with tension and alignment support.
Carbon Graphite Anode Processing	Slits carbon graphite-coated copper foil used for anode preparation and downstream cell fabrication.	Supports copper foil thicknesses from 6 to 30 micrometers and widths from 50 to 500 mm.
Battery R&D and Pilot Production	Produces electrode strips for laboratory-scale process development, material comparison, and pilot manufacturing studies.	Offers flexible width adjustment and compatibility with multiple electrode chemistries.
Advanced Materials Research	Applies controlled roll-to-roll slitting to coated foil materials used in academic and industrial materials research.	Provides a defined processing route for evaluating strip width, burr, straightness, and winding performance.

Parameter	Specification	Notes
Product Item Number	FQ05	Continuous lithium battery electrode sheet slitting equipment
Suitable Systems	Lithium iron phosphate, lithium cobalt oxide, lithium manganese oxide, ternary, lithium nickel cobalt manganese oxide, lithium titanate, carbon graphite, and other electrode systems after coating and roll pressing	Applies to coated and roll-pressed electrode sheets
Slitting Method	Combination knife slitting	Knife group is arranged according to the required process specification
Winding Method	Two-shaft differential-shaft offset winding	Finished strips are separately collected into rolls
Mechanical Running Speed	50 m/min	Maximum equipment mechanical running speed
Slitting Speed	0 to 40 m/min	Determined according to slitting effect
Guaranteed Slitting Width	7 to 500 mm	Process slitting-width range
Roll Face Design Width	650 mm	Designed roll-face width

Substrate	Thickness	Width	Maximum Roll Diameter
Aluminum Foil Al	8 to 30 micrometers	50 to 500 mm	400 mm
Copper Foil Cu	6 to 30 micrometers	50 to 500 mm	400 mm

Parameter	Specification
Electrode Thickness Range	70 to 250 micrometers
Main Equipment Dimensions Length x Width x Height	Approximately 1850 x 1900 x 1865 mm
Dust Extractor Dimensions Length x Width x Height	Approximately 800 x 800 x 1400 mm
Knife-Holder Cart Dimensions Length x Width x Height	Approximately 1200 x 400 x 1000 mm
Alignment System	Edge alignment system
Tension Control Support	Tension transmission system
Dust Management	Dust extraction system
Edge Material Handling	Both side-edge materials collected by the edge-material mechanism