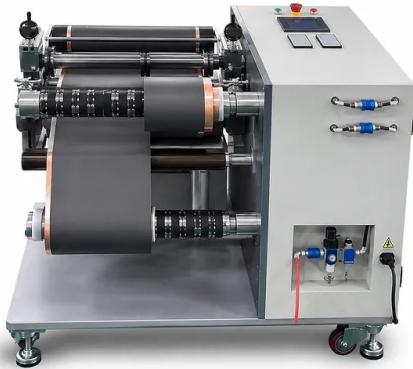


Roll To Roll Continuous Slitting Machine

Item Number: FQ10



Introduction

Precision roll to roll continuous slitting machine for battery foil metal foil optical film and functional film converting delivers adjustable tension accurate widths low burr quality and PLC controlled operation with durable tungsten carbide circular blades and servo-driven unwinding rewinding.

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Application	Description	Key Benefit
Lithium battery foil preparation	Slits battery-related foil roll stock into defined strip widths for battery research and cell-fabrication workflows.	Specified $\pm 0.09\text{mm}$ slitting accuracy and $\leq 15\mu\text{m}$ burr condition support controlled foil preparation.
Metal foil converting	Processes continuous metal foil coils into two or more narrower rolls using upper and lower circular knife cutting.	Adjustable knife engagement and servo-controlled tension support defined processing setup.
Optical film slitting	Converts optical film roll materials into required widths for further film handling or production steps.	Adjustable entry and exit angles accommodate different material properties and thickness values.
Functional film processing	Produces narrow strips from functional-film coils used in advanced-materials workflows.	Width adjustment from 20 to 480mm enables different strip-format requirements.
Laboratory materials research	Prepares foil or film samples and roll formats for materials-science research processes.	PLC/HMI operation and dial-indicator blade-engagement display provide a structured setup approach.
Multi-strip roll preparation	Continuously divides roll stock into two or more slit strips for subsequent winding or processing.	Two differential winding shafts and automatic winding-tension control support continuous rewinding.
Thin material conversion	Processes material in the specified 100 to 300 μm thickness range.	The opposed circular knife arrangement is configured for precision slitting of thin coil materials.

Parameter	Specification
Product Item Number	FQ10
Slitting Method	Single-blade rolling cut
Cutter Type	Upper and lower circular knife opposed cutting
Width Adjustment	Adjusted by replacing spacer sleeves
Rewinding	2 differential winding shafts
Unwinding	Web-guiding control
Unwinding and Rewinding Tension	Servo motor control
Slittable Thickness	100~300 μm
Slitting Blade	Ultrafine-grain alloy tungsten carbide, diameter $\Phi 100\text{mm}$
Slitting Width	Adjustment range 20~480mm, customizable
Burr Condition	$\leq 15\mu\text{m}$
Slitting Accuracy	$\pm 0.09\text{mm}$
Blade Engagement	0.2~0.4mm adjustable, dial indicator display

Parameter	Specification
Slitting Speed	Max. 4m/min
Power Supply	Voltage single-phase 220VAC±10%, frequency 50Hz/60Hz, power 1kW
Operating Environment	Recommended ambient temperature 25±3°C, humidity 30~90RH, no vibration or electromagnetic interference
Dimensions	L920mmW1150mmH780mm
Net Weight	Approx. 680Kg