

AUTOMATIC FILM COATER

Precision Coating for Advanced Battery Research

Designed for uniform and controllable coating of electrode slurries on various substrates with high accuracy, repeatability, and efficiency.



High Precision Coating



Stable & Reliable



Touchscreen Control



Safe Operation

KEY FEATURES



Uniform Coating

Automatic doctor blade ensures highly uniform and repeatable coating thickness.



Wide Process Window

Adjustable speed, thickness, and stroke length for various research needs.



Vacuum Chuck

Integrated vacuum bed securely holds substrates flat during coating.



Smart Control

Touchscreen interface for easy operation and parameter setting.



Safe & Durable Design

High-quality components ensure long service life and user safety.

TECHNICAL SPECIFICATIONS

Parameter	Specification
Application	Battery electrode coating (Li-ion, Na-ion, Solid-state)
Coating Method	Automatic doctor blade
Substrate	Copper foil, Aluminum foil, PET, Glass
Coating Width	100 – 300 mm (model dependent)
Coating Thickness	10 – 5000 μm (adjustable)
Coating Speed	0.1 – 100 mm/s (programmable)
Stroke Length	Up to 300 mm
Vacuum Bed	Integrated vacuum chuck to hold the substrate flat
Control	Touchscreen or digital controller
Power Supply	220 – 240 V AC, 50 Hz
Dimensions (WxDxH)	Approx. 600 x 450 x 350 mm
Net Weight	Approx. 45 – 65 kg (model dependent)
Blade Material	Stainless steel (standard)
Blade Gap Adjustment	Micrometer adjustment
Display	7-inch / 10-inch Touchscreen (optional)
Vacuum Source	Internal vacuum pump
Vacuum Level	≤ -0.08 MPa
Environment	5 – 40 $^{\circ}\text{C}$, < 80% RH
Safety Features	Emergency stop, overload protection, safety cover

ADDITIONAL FEATURES

- Digital speed and thickness control
- Memory storage for multiple programs
- High precision linear guide for smooth movement
- Anti-corrosion coating platform
- Easy cleaning and maintenance
- Optional heating bed for solvent evaporation control

APPLICATIONS



Lithium-ion Battery Electrode Coating



Solid-state Battery Material Coating



Coating on Copper Foil, Aluminum Foil, PET, Glass



Advanced Material Research & Development



High Precision Coating



Adjustable Speed & Thickness



Vacuum Chuck



Touchscreen Control



Safe & Reliable Operation



Easy Maintenance & Cleaning

Precision. Performance. Reliability. – Engineered for Battery Innovation.