

RCX-300



Model RCX

Solid-State Battery Li Metal Anode & Oxide/Sulfide Coating

Multi-Modular Functional Source

Evaporation / ion beam / magnetron sputtering / assist modules quickly configurable

Inert Gas Protection

Multi-stage inert gas protection, compatible with water/oxygen-sensitive deposition

Diverse Coating Types

Supports LiPON, LLZO and other oxide and sulfide electrolyte coatings

Low-Tension Wrinkle Prevention

Tension control $\leq \pm 0.5\text{N}$, ensures stable web handling

Applications



Solid-State Battery



Li Metal Anode



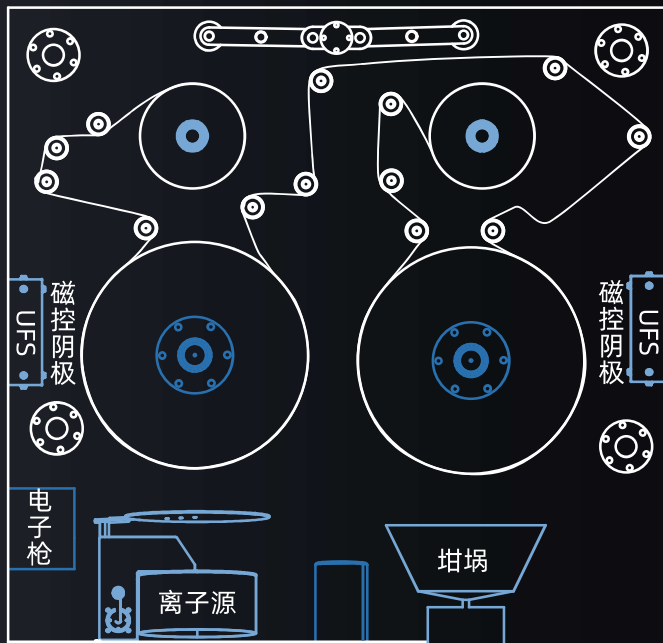
Oxide Coating



Sulfide Electrolyte

Model R-DT650

Model R-CX300 is a multi-modular roll-to-roll coating platform for solid-state battery Li metal anodes and various oxide / sulfide functional coatings. The equipment adopts a fully modular design, allowing flexible configuration of evaporation / magnetron sputtering / ion beam assist functional modules. Standard features include substrate thermal management, closed-loop tension control, and coating quality closed-loop control. Supports deposition of LiPON, LLZO, Al_2O_3 and other oxide electrolytes, as well as $\text{Li}_6\text{PS}_5\text{Cl}$, Li_3PS_4 and other sulfide solid electrolytes. Equipped with inert gas protection, in-situ film thickness monitoring, and Li dendrite prevention safety design. Supports single-side / double-side deposition, web width expandable to 600mm. Specially designed for R&D and pilot validation in universities, research institutes, and battery companies.



Specifications

Application

Li metal anode, oxide/sulfide electrolyte coating

Standard width

300/600mm

Substrate

Cu foil < 20 μm

Web speed

1-20m/min

Coating

Li, LiPON, LLZO, $\text{Li}_6\text{PS}_5\text{Cl}$, etc.

Source power

Evaporation + sputtering + IBAD (modular)

Coating method

Single/double side deposition

Atmosphere

Inert gas protected, $\text{H}_2\text{O}/\text{O}_2 < 1\text{ppm}$

Film thickness range

10nm - 5 μm

Uniformity

$\leq \pm 5\%$

Pain Points

Solid-state battery R&D requires flexible equipment that supports multiple coating material systems; research institutes need small-batch, high-precision coating equipment for material screening and process optimization. This multi-modular platform allows quick reconfiguration for different material systems, reducing R&D iteration cycles.

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