

RDM300/600

Naxau

Double-side

Model RDM

Solid-State Battery Li Metal Anode Mass Production

Double-Side Simultaneous Deposition

Double-side Li coating in single web run, 2x throughput

High-Uniformity Li Layer

Purity $\geq 99.9\%$, uniformity better than $\pm 5\%$

High-Power Evaporation

100-300kW power range, meets high-speed production needs

Intrinsic Safety Design

Li dendrite prevention and multi-stage safety protection

Applications



Solid-State Battery Production



Li Metal Anode



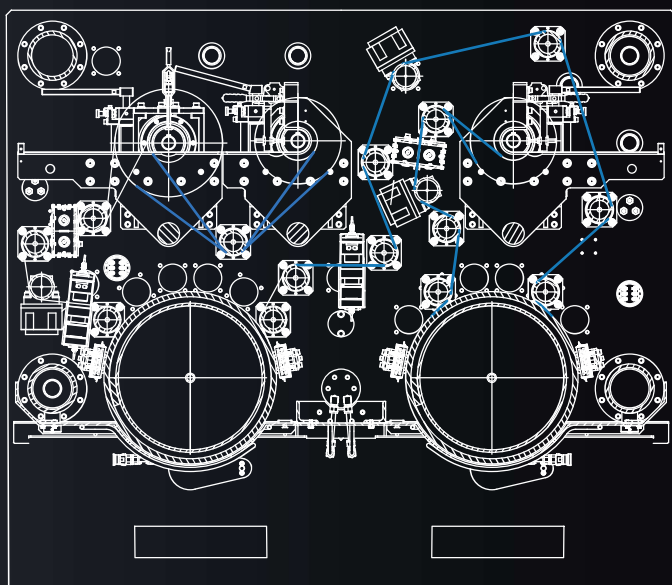
Energy Storage



Electric Vehicles

Model R-DT650

Model R-DM300/600 is a double-side roll-to-roll Li coating production system for mass production of solid-state battery Li metal anodes. It adopts evaporation / magnetron sputtering / ion beam assist technologies, with standard substrate thermal management, closed-loop tension, and coating quality closed-loop control. It simultaneously deposits high-purity Li layers on both sides of Cu foil. Equipped with multi-stage vacuum differential, inert gas protection, in-situ film thickness / sheet resistance monitoring, and Li dendrite prevention safety design. Meets high throughput and high safety requirements. Double-side deposition is completed in one pass, suitable for large-scale continuous production.



Specifications

Application

Li metal anode mass production

Standard width

300/600mm

Substrate

Cu foil < 20 μ m

Web speed

5-50m/min

Coating

High-purity Li, double side

Source power

100-300kW evaporation

Coating method

Double-side simultaneous deposition

Li purity

$\geq 99.9\%$

Uniformity

$\leq \pm 5\%$

Atmosphere

Inert gas protected, differential vacuum

Pain Points

Single-side Li coating has low throughput and high cost; uneven Li layer affects battery performance; large-scale production has high safety requirements. This machine improves throughput via double-side simultaneous deposition, enhances coating uniformity with high-power design, and reduces overall processing costs.

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