Solutions for Battery Applications

Premier[™] Slot Coating Equipment for the Production of Lithium Ion Batteries

Ensure superior performance when you partner with the field's leader in precision slot die equipment and specialists with extensive industry experience.

Benefits

- Increase end product safety with the unmatched flatness and uniform slot gap of a Premier[™] slot die
- Extend product lifespan with a slot die and positioner custom designed for each application
- Shorten time required for product changeovers with a slot die designed for a larger process window, allowing for use of a higher variety of fluids at multiple widths and coat weights
- Improve end product yields by eliminating the source of product shorts with a manifold designed to uniformly distribute the coating fluid, based on the fluid's rheology
- Ease of Use design requires minimal operator adjustment to obtain repeatable results

Nordson offers converters slot die coating systems that deliver a precise, uniform flow to the web at a constant rate.

Premier Fixed Lip Slot Dies are custom designed for a wide range of processes, including electrode coating, Li-BS slurry coating, separator film, and many more.

At our dedicated facility, experienced technicians use state-of-the-art equipment to custom design and manufacture slot die equipment. The result is uniform coat weight distribution and coating thickness.

No matter what your coating needs are - from laboratory devices to production systems for Lithium Ion battery applications - custom-designed Premier slot coating equipment will increase your production efficiency and provide significant cost savings.

China



The Nordson Solution

Premier Fixed Lip Slot Die

- Coat Weight Uniformity: ± 1-2%
- Adjustable gap and coating width with precision shims
- Body lip offset for optional shear at substrate interface

Premier Die Positioner

- Position Repeatability: ± 1.25µ
- Backing Roll TIR: 2.54µ
- Easily integrated into new or existing production lines

Premier Fluid Delivery System

- Delivers consistent, non-pulsing fluid for uniform coatings
- Sanitary connections have no threads to collect residue
- In-line T-valves offer an easy way to flush system clean

Vacuum Chamber and Regenerative Blower

Increases the process window, delivering best results under various conditions

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