

Coating Solutions for Li-Ion Batteries



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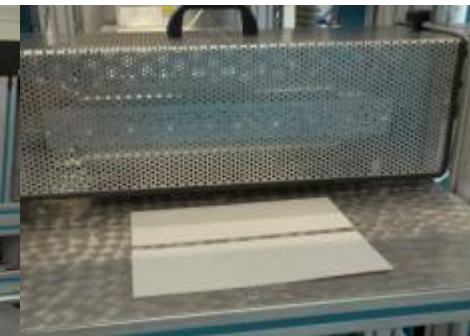
Coating Equipment Battery Electrodes



BC for Ni Foam Electrodes



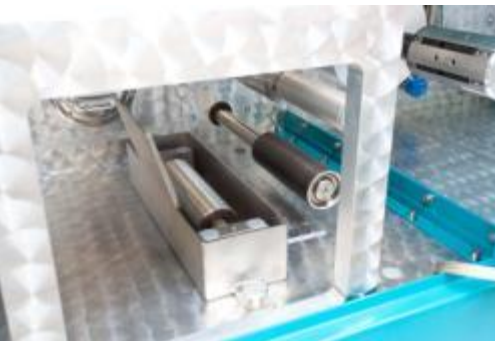
- ✓ **0,2–2 m/min**
- ✓ **Roller width 400 mm working width 300 mm**
- ✓ Easy exchangeable coating module for high flexibility
- ✓ Unwinding station beneath for compact design
- ✓ Pre-calendaring station for controlled substrate thickness
- ✓ Electrically heated oven for easy use
- ✓ Integrated rotating cutter for precise sheet length



SC for Li Ion Electrodes



- ✓ **0,1–1 m/min**
- ✓ **Roller width 150 mm working width 100 mm**
- ✓ Compact design for direct use
- ✓ Four different easy exchangeable coating heads for highest flexibility
- ✓ Modular oven segments for optimizing size and process needs
- ✓ Tension control for smooth web path
- ✓ Ex layout for handling flammable solvents



IC for Ni Foam Electrodes



- ✓ **0,2–2 m/min**
- ✓ **Roller width 400 mm working width 350 mm**
- ✓ Pre-calendering station for controlled substrate thickness
- ✓ Enclosure of coating area for fully controlled atmosphere
- ✓ Oven with nitrogen environment
- ✓ Separately controlled oven segments for precise temperature profile
- ✓ Integrated calender for optimized material flow
- ✓ Integrated cutter for precise sheet length



BC for Li Ion Electrodes

- ✓ **0,2–2 m/min**
- ✓ **Roller width 400 mm working width 300 mm**
- ✓ Easy exchangeable coating module for high flexibility
- ✓ Registry for precise web pass
- ✓ Web guidance for exact transport
- ✓ Mechanical cleaning system to avoid debris
- ✓ Corona treatment to control adhesion of layer
- ✓ Tension control and drives for smooth web path
- ✓ Oven with nitrogen environment and IR boost



VC for Electrodes



- ✓ **0,5–5 m/min**
- ✓ **Roller width 600 mm working width 500 mm coating width 300 mm**
- ✓ Double sided coating for optimized process
- ✓ Slot die and Foulard coating for high flexibility
- ✓ Hydraulic actuated Foulard for easy operation
- ✓ Edge and tension control for smooth web path
- ✓ Special oven design for optimal vertical drying



Production Line for Electrodes



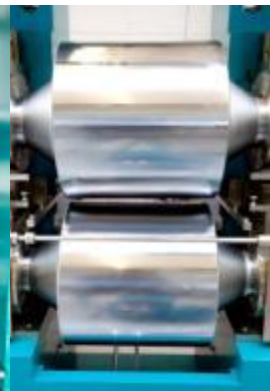
- ✓ **1–10 m/min**
- ✓ **Roller width 800 mm working width 700 mm**
- ✓ Automatic splicing for continuous production
- ✓ In line calender for controlled web thickness
- ✓ In line scales for quality assurance
- ✓ In line longitudinal and lateral cut for high productivity
- ✓ Automatic pick and place storage for efficient logistics



40t Calender for Electrodes



- ✓ **Up to 1,33 kN/mm @ 300 mm 0,1–10 m/min**
- ✓ **Roller width 400 mm working width 300 mm**
- ✓ Massive design for maximum stability
- ✓ Table for manual web positioning
- ✓ Scraper for cleaning rollers
- ✓ Hardened roller surface for long reliability



30t Calender for Electrodes



- ✓ **Up to 1,5 kN/mm @ 200 mm 0,5–5 m/min**
- ✓ **Roller width 300 mm working width 200 mm**
- ✓ **Max 180 °C heated rollers**
- ✓ Massive design for maximum stability
- ✓ Heated rollers for thermal web treatment
- ✓ Table for manual web positioning
- ✓ Scraper for cleaning rollers
- ✓ Touch panel for easy operation
- ✓ Hardened roller surface for long reliability



60t Calender for Electrodes



- ✓ **Up to 1,7 kN/mm @ 350 mm 0,2–2 m/min**
- ✓ **Roller width 400 mm working width 350 mm**
- ✓ Massive design for maximum stability
- ✓ In line installation for high productivity
- ✓ Brushes for cleaning rollers
- ✓ Hardened roller surface for long reliability



30t Calender for Electrodes



- ✓ **Up to 1 kN/mm @300 mm 0,2–3 m/min**
- ✓ **Roller width 400 mm working width 300 mm**
- ✓ **Max 150 °C heated rollers**
- ✓ Massive design for maximum stability
- ✓ Unwinding / rewinding for off line R2R process
- ✓ Heated rollers for thermal web treatment
- ✓ Brushes for cleaning rollers
- ✓ Touch panel for easy operation
- ✓ Hardened roller surface for long reliability



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