

RDT-650

Coating
Naxau

Model RDT

Composite Current Collector Cu / EMI Display Cu Coating

Double-Side Simultaneous Evaporation

Double-side Cu coating in single web run, 2x throughput, uniformity $\leq \pm 3\%$

Low Sheet Resistance, High Shielding

1 μ m Cu sheet resistance $\leq 0.03\Omega/\text{sq}$, shielding effectiveness $\geq 60\text{dB}$

Ultra-Thin Film Compatible

For $<10\mu\text{m}$ PET/PI, proprietary low-tension web handling prevents wrinkles

In-Line Blackening Module

Cu + CuO blackening completed in one step, reflectivity $\leq 20\%$

Applications



Composite Current Collector Cu



EMI Shielding Film



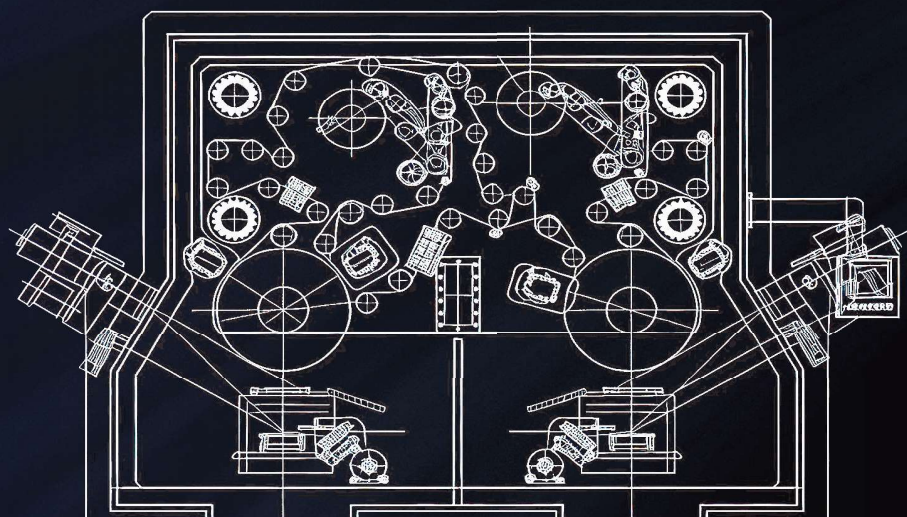
Display Cu Coating



Global Healthcare

Model R-DT650

Model R-DT650 is a double-side roll-to-roll Cu coating machine for composite current collector Cu and EMI display Cu films. It integrates evaporation / magnetron sputtering / ion beam assist processes, with standard substrate thermal management, closed-loop tension and coating quality control. It deposits high-purity Cu layers on both sides of ultra-thin plastic substrates, with optional in-line CuO blackening. The equipment integrates drum-cooled rolls and low-tension web handling mechanisms, compatible with $<10\mu\text{m}$ ultra-thin PET/PI substrates, achieving low sheet resistance, high shielding, and high adhesion. Suitable for mass production of composite current collector Cu and EMI shielding films.



Specifications

Application

Composite current collector Cu, EMI shielding film

Standard width

650/1350 mm

Substrate

PET/PI $< 10\mu\text{m}$

Web speed

10-100m/min

Coating

High-purity Cu, double side

Source power

Evaporation 100-500 kW

Coating method

Double-side simultaneous deposition

Al sheet resistance

$\leq 0.03\ \Omega/\text{sq}$

Total Al thickness

0.5-2 μm

Shielding effectiveness

$\geq 60\ \text{dB}$

Reflectivity (blackened)

$\leq 20\%$

Pain Points

Composite current collector Cu requires ultra-thin, low sheet resistance, pinhole-free films; EMI shielding applications demand high shielding effectiveness; display applications require low reflectivity. This machine delivers double-side simultaneous Cu deposition with low sheet resistance and high shielding performance, plus optional in-line CuO blackening module for display applications.

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