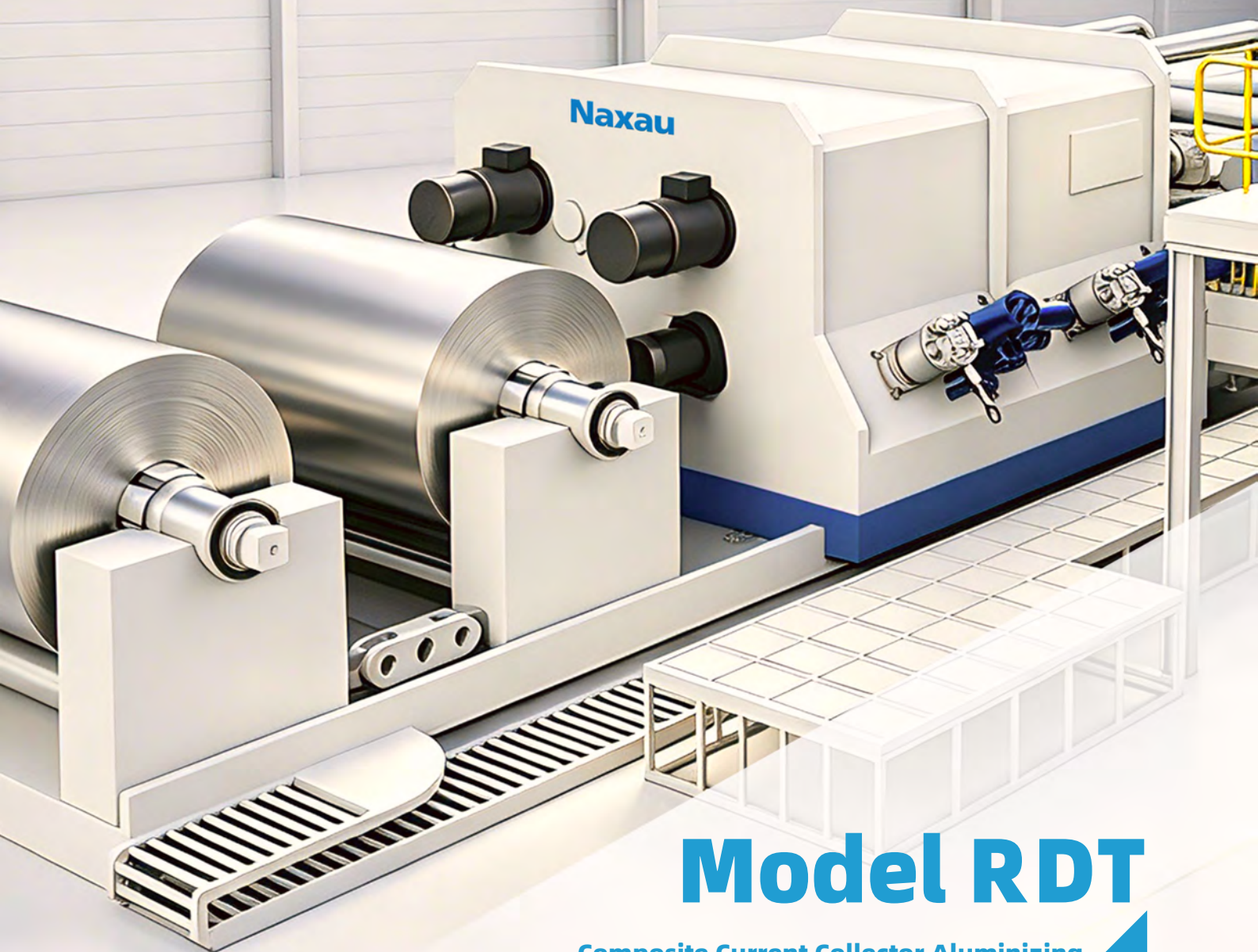


RDT-1350



Model RDT

Composite Current Collector Aluminizing

- **Multi-pass Coating for High Yield**
Eliminates pinholes; needle penetration rate improved +30%
- **Ultra-low Tension Web Handling**
For 4-6µm ultra-thin PET; active feed algorithm, wrinkle-free
- **Large Crucible Quick-Change**
72h+ continuous operation; low-maintenance design
- **Multiple Standard Widths**
650/1350/1700mm standard; custom widths available

Applications



Flexible Electronics



EMI Shielding



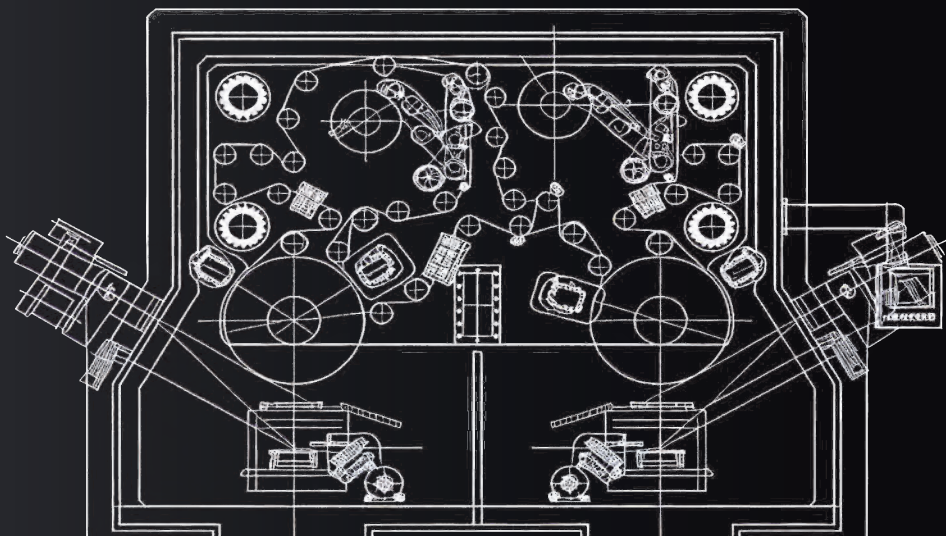
Optoelectronic Displays



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 aluminizing

Standard width

650/1350/1700mm

Substrate

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

Web speed

10-100m/min

Coating

High-purity Al, 1-5 layers

Source power

Induction evaporation 100-500kW

Coating method

Double-side deposition

Al sheet resistance

$\leq 0.2\Omega/\text{sq}$

Total Al thickness

0.5-2 μm

Needle penetration rate

Improved $\geq 30\%$

Pain Points

Traditional Al foil is heavy, costly, and prone to short-circuit fire in needle penetration tests; ultra-thin film substrates wrinkle easily with many pinholes. This machine eliminates pinholes via multi-pass coating, prevents wrinkles with low-tension handling, and reduces processing costs with high-throughput design.

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