

THIN FILM CORONA TREATMENT SYSTEM



Thin Film Corona Treatment System - ToronCorona™ TFCT

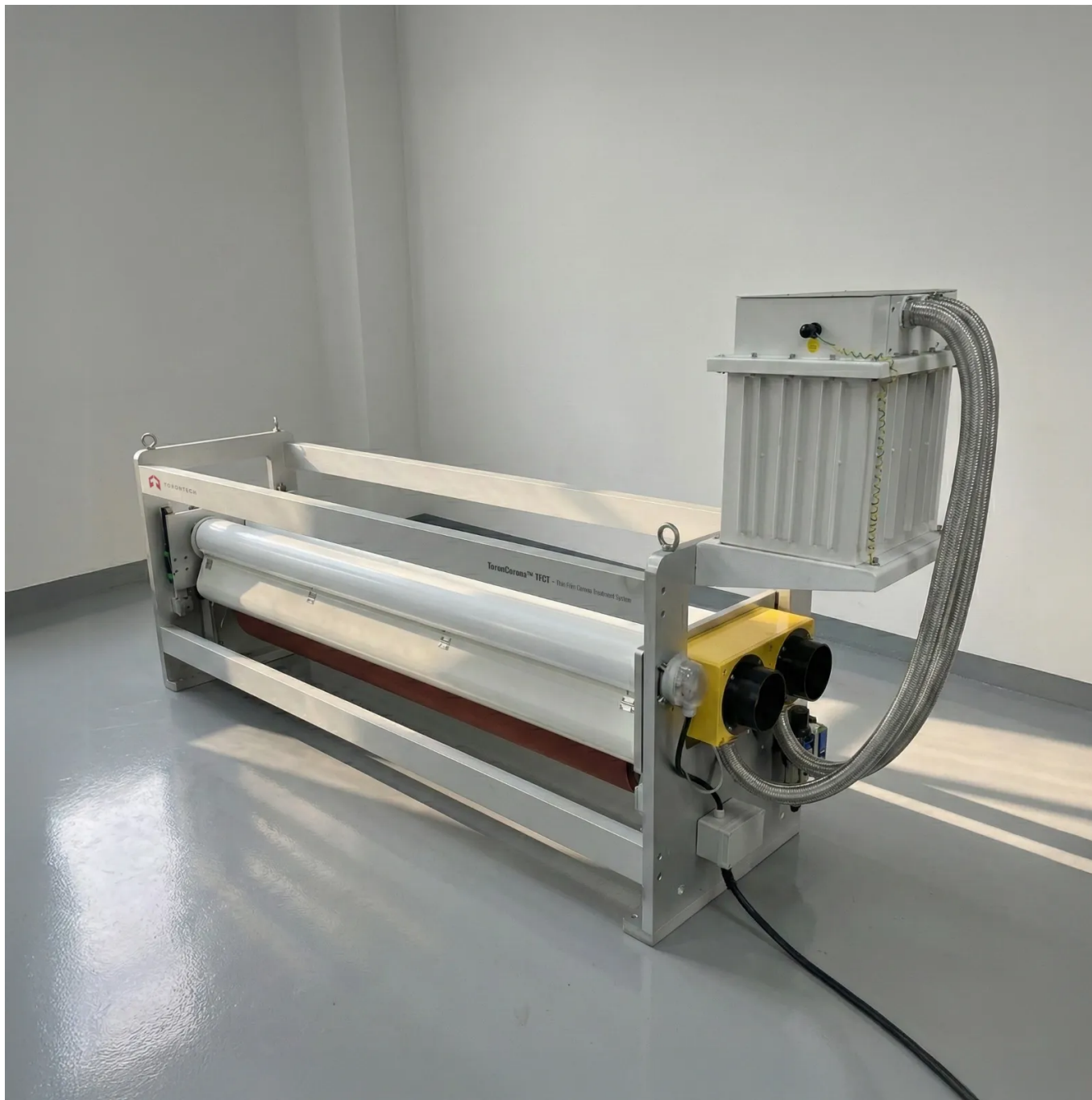
Thin Film Corona Treatment System – ToronCorona™ TFCT is an advanced corona surface treatment machine designed to enhance surface energy and adhesion performance of thin film materials. By applying controlled high-frequency electrical discharge, this corona treatment equipment generates reactive free radicals on the film surface, enabling strong chemical bonding with inks, coatings, adhesives, and laminates.

Engineered for continuous industrial operation, the system delivers stable, uniform corona discharge across the treatment width, ensuring consistent surface activation without damaging sensitive thin films. It is widely integrated into printing, coating, battery foil, and packaging production lines where reliable surface preparation is critical.

APPLICATIONS

Thin Film Corona Treatment System - ToronCorona™ TFCT Applications

- Printing Industry
 - Improves ink wetting and adhesion on plastic films, ensuring sharp print quality and long-term durability.
- Coating Industry
 - Enhances surface tension of thin films, allowing coatings to spread evenly and bond effectively.
- Battery Aluminum Foil Production
 - Removes surface oil residues and increases bonding strength of electrode coatings, improving battery performance and service life.
- Flexible Packaging Films
 - Activates polymer surfaces prior to lamination, reducing delamination risks in multilayer structures.
- Hollow Board & Composite Film Lines
 - Promotes chemical bonding between film layers, improving adhesion, wettability, and overall material stability.



FEATURES

Thin Film Corona Treatment System - ToronCorona™ TFCT Key Features

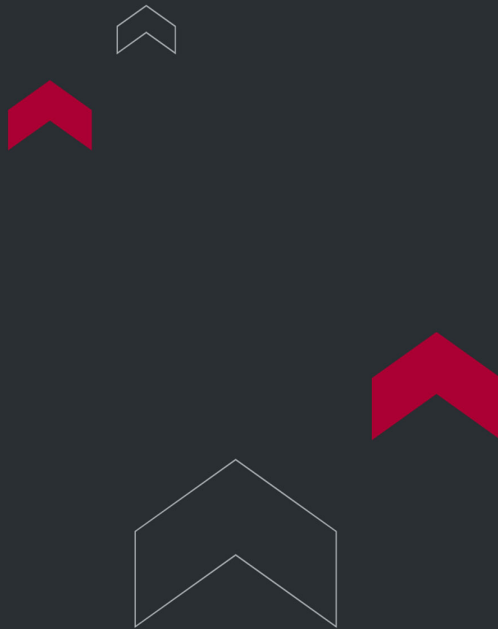
- High-Efficiency Corona Surface Treatment
 - Generates uniform plasma discharge to significantly increase surface energy and adhesion.
- Stable High-Frequency Discharge System
 - Ensures consistent corona output for continuous industrial production.
- Optimized for Thin Films
 - Designed to prevent overheating or surface damage while treating delicate materials.
- Wide Application Compatibility
 - Suitable for plastic films, aluminum foil, coated films, and composite materials.
- Precision Electrode Structure
 - Maintains uniform discharge gap for consistent treatment across the full working width.
- Industrial-Grade Construction
 - Corrosion-resistant frame and ozone-resistant components for long service life.
- Easy Integration
 - Can be installed inline with printing, coating, laminating, and converting equipment.

TECHNICAL SPECIFICATIONS

Thin Film Corona Treatment System - ToronCorona™ TFCT Technical Specifications

Parameter	Specification
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Product Type	Thin Film Corona Treatment System
Model Series	ToronCorona™ TFCT
Treatment Method	High-frequency corona discharge
Applicable Materials	Plastic films, aluminum foil, composite films
Treatment Width	Customizable based on production line
Discharge Type	Rotary electrode corona discharge
Surface Activation Effect	Increased surface tension and adhesion
Operating Mode	Continuous inline operation
Installation	Printing, coating, laminating, battery foil lines
Frame Material	Industrial aluminum / stainless steel
Safety Protection	High-voltage insulation, ozone-resistant design
Control System	Integrated power and discharge control
Power Supply	Industrial AC power (model dependent)



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