

LABORATORY CORONA SURFACE TREATMENT SYSTEM



Laboratory Corona Surface Treatment System - ToronCorona™ LCST

Laboratory Corona Surface Treatment System – ToronCorona™ LCST is a compact and high-precision corona treatment machine designed for laboratory evaluation, material development, and small-scale testing.

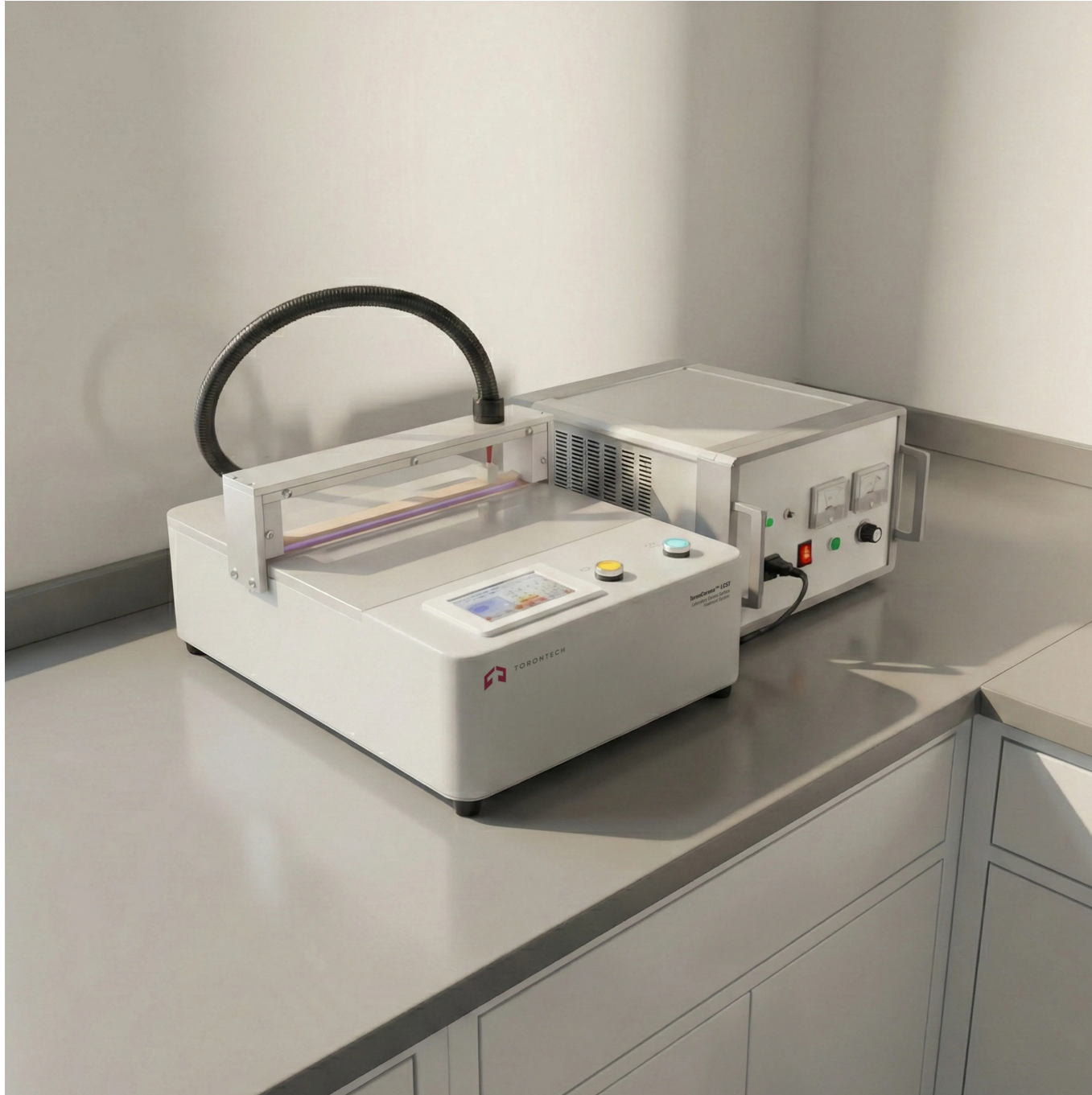
This corona treatment equipment enables controlled corona surface treatment of both metallic and non-metallic materials, allowing users to rapidly assess surface activation, adhesion improvement, and wettability changes before full-scale production.

Engineered for safety, simplicity, and repeatability, the HD Series supports thin material processing while delivering stable and uniform discharge performance in laboratory environments.

APPLICATIONS

Laboratory Corona Surface Treatment System - ToronCorona™ LCST Applications

- Material R&D and Surface Evaluation – Verifies surface activation effects on films, foils, and sheets before industrial production.
- Adhesion and Wettability Testing – Improves and evaluates ink, coating, and adhesive bonding performance after corona surface treatment.
- Thin Material Processing – Suitable for laboratory treatment of samples with thicknesses from 0 to 2.5 mm.
- Metal and Non-Metal Treatment – Handles plastics, polymers, paper, aluminum foil, and composite materials.
- Process Validation – Enables fast inspection of treatment results and dyne level performance under controlled conditions.



FEATURES

Laboratory Corona Surface Treatment System - ToronCorona™ LCST Key Features

- Laboratory-Grade Corona Surface Treatment
 - Provides stable, low-power corona discharge optimized for research and testing environments.
- Wide Material Compatibility
 - Effectively treats both conductive and non-conductive materials, including metals and polymers.
- Thin Sample Capability
 - Supports materials with thicknesses from 0 to 2.5 mm, ideal for films and sheets.
- Safe and Simple Operation
 - Designed with enhanced safety protection and intuitive controls for laboratory users.
- Rapid Effect Verification
 - Allows quick visual and functional evaluation of surface treatment results after processing.
- Compact Laboratory Footprint
 - Space-saving design suitable for benchtop or stand-mounted laboratory installations.

TECHNICAL SPECIFICATIONS

Laboratory Corona Surface Treatment System - ToronCorona™ LCST Technical Specifications

Parameter	Specification
Model	ToronCorona™ LCST
Input Voltage	220 V $\pm$ 10%, 50/60 Hz (110V is also available)
Working Frequency	15 - 30 kHz
Output High Voltage	18 - 35 kV
Output Power	$\leq$ 600 W
Maximum Power Consumption	$\leq$ 1200 W
Treatable Material Thickness	0 - 2.5 mm
Effective Treatment Width	30 mm - 150 mm
Discharge Electrode Length	$\leq$ 120 mm
Processing Capability	Metal and non-metal materials
Operation Mode	Manual / Laboratory test platform
System Weight	Approx. 15 kg



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