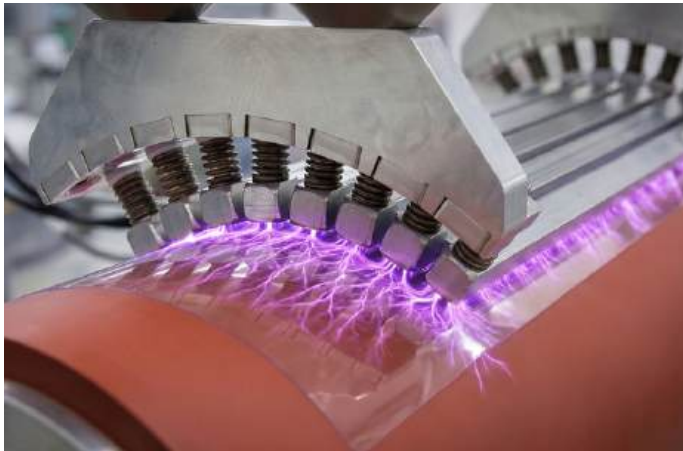




TORONTECH

APRIL, 2026

NEWSLETTER



SMARTER SURFACE ACTIVATION FOR STRONGER ADHESION

Adhesion problems usually show up downstream—ink smearing, coating defects, weak lamination bonds, or early delamination. Many plastics and polymers (especially PE and PP) naturally have low surface energy, so inks, adhesives, and coatings struggle to wet and anchor consistently.

Torontech's Corona & Plasma Treaters are designed to raise surface energy and improve wettability using either controlled high-voltage corona discharge or plasma treatment. The result is more stable bonding performance across printing, laminating, coating, and assembly workflows—whether you need a compact lab unit, an inline high-speed production system, or vacuum plasma processing for high-reliability parts.

CORONA SERIES

Corona treatment activates surfaces using a high-voltage electrical discharge across an electrode to increase wetting and improve bonding—commonly used inline for films, foils, and converting lines where consistent dyne levels matter.

Laboratory Corona Surface Treatment System

ToronCorona™ LCST



Best-Fit:
R&D, material evaluation,
and small-scale testing
before full production.

- › **Lab-grade Stable Discharge:**
Optimized low-power corona for research/testing environments.
- › **Wide Material Compatibility:**
Treats conductive and non-conductive materials (metals and polymers).
- › **Thin Sample Capability:**
Supports 0–2.5 mm thickness; effective width 30–150 mm.



Torontech Inc.
251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada
Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC
601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA
Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE
Meydan Grandstand, 6th Floor, Meydan
Road, Nad Al Sheba, Dubai-261440, UAE
Phone: +971 488 19252
Email: me@torontech.com



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High-Speed Production Line Corona Treatment System

ToronCorona™ HSP



Best-Fit:

Wide-web, continuous production lines that need stability at speed.

- **Fast Air-Gap Calibration + Precision Guide Rails:**
Stable electrode positioning with rapid adjustment.
- **In-Process Adjustability:**
adjust corona intensity and electrode gap without stopping production.
- **Ozone-Resistant Industrial Build:**
Includes 304 stainless steel + corrosion/ozone-resistant components; optional water-cooling.

Corona Treatment Machine for

Hollow Board Production Lines - ToronCorona™ HBP



Best-Fit:

Hollow PP/PE boards and structured sheets where standard corona can damage delicate geometry.

- **Dedicated Hollow-Board Discharge System:**
Optimized for structured geometries.
- **Simultaneous Double-Sided Processing:**
Treats both sides in one pass for higher efficiency.
- **Wide Thickness Compatibility:**
Supports 2–12 mm board thickness.
- **High Dyne Performance:**
Post-treatment surface energy up to 60 dynes (as stated).



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PLASMA SERIES

Plasma treatment uses ionized gas to clean and activate surfaces and is often selected when tighter control, cleaner processing, or complex parts demand more targeted surface preparation than typical web-based corona.

Plasma Surface Treatment Machine

ToronPlasma™ PS



Best-fit:
Spot treatment and pilot-scale surface activation where mobility and fast setup matter.

- **Effective Treatment Width:**
Up to 60 mm for precise activation zones.
- **Output Power:**
Capable of reaching up to 1000 W with an adjustable treatment gap.
- **Operation:**
Utilizes clean, dry compressed air within a specified working pressure range of 0.05–0.4 MPa.

Roll-to-Roll Vacuum Plasma Surface Treatment System

ToronPlasma™ RRVP



Best-Fit:
Continuous web materials needing contamination-controlled processing (heat-sensitive or high-performance webs).

- **Vacuum-Based Plasma / Corona Processing:**
Contamination-controlled environment with integrated vacuum pump.
- **Process Gas Control:**
Supports controlled introduction of N_2 / O_2 / Ar.
- **Web Handling Built-In:**
Automatic unwinding/rewinding + integrated tension control for stable treatment across the web width.

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Industrial Plasma Cleaning Machine

ToronPlasma™ PCM



Best-fit:

High-reliability cleaning + activation in a vacuum environment (electronics, medical, precision parts).

› Vacuum RF Plasma Generation:

Uniform, controlled surface cleaning inside a stable vacuum chamber.

› Non-Contact, Chemical-Free Process:

Removes organic residues without mechanical abrasion or solvents.

› Multiple Plasma Working States:

Supports different material types and process needs.

💡 ToronFact Corner

Corona and plasma both boost adhesion, but **they shine in different workflows:**

- **Corona** is most common for high-speed web materials like films and foils,
- while **Plasma** is often chosen for more controlled surface cleaning/activation—especially for complex parts or when a cleaner process environment matters.

Why Choose Torontech for

Your Surface Treatment Workflow

› Covers Both Technologies:

Corona for high-speed web activation and plasma options for specialized, controlled surface preparation.

› Process-Fit Selection:

Solutions for lab evaluation (LCST), inline high-speed production (HSP), and application-specific geometry like hollow boards (HBP).

› Built for Real Manufacturing Constraints:

Adjustability during production, stable discharge control, and repeatable vacuum processing where cleanliness matters.



Ready to **strengthen adhesion performance** in your production or R&D workflow?

Torontech's Corona & Plasma Treaters are designed to improve surface energy, increase wettability, and help inks, coatings, and adhesives bond more consistently across plastics, films, foils, and engineered parts. Explore the full category here:

<https://www.torontech.com/product/corona-plasma-treaters/>

For help selecting the best-fit system for your material type, line speed, and geometry, contact: sales@torontech.com

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