



# CORONA TREATMENT MACHINE FOR HOLLOW BOARD PRODUCTION LINES

# **Corona Treatment Machine for Hollow Board Production Lines - ToronCorona™ HBP**

Corona Treatment Machine for Hollow Board Production Lines – ToronCorona™ HBP is a purpose-built corona treatment equipment designed for continuous surface activation of hollow boards and structured plastic sheets. Engineered specifically for hollow board production lines, this corona surface treatment system improves surface energy, adhesion performance, and printability without damaging internal structures.

Using precisely controlled corona discharge, the system treats one or both sides of hollow boards simultaneously, ensuring uniform surface activation across varying board widths and thicknesses. Adjustable electrode spacing, synchronized corona rollers, and stable discharge control allow consistent treatment even on delicate hollow structures. After treatment, surface dyne levels can reach up to 60 dynes, supporting demanding downstream processes such as printing, coating, and lamination.

## **APPLICATIONS**

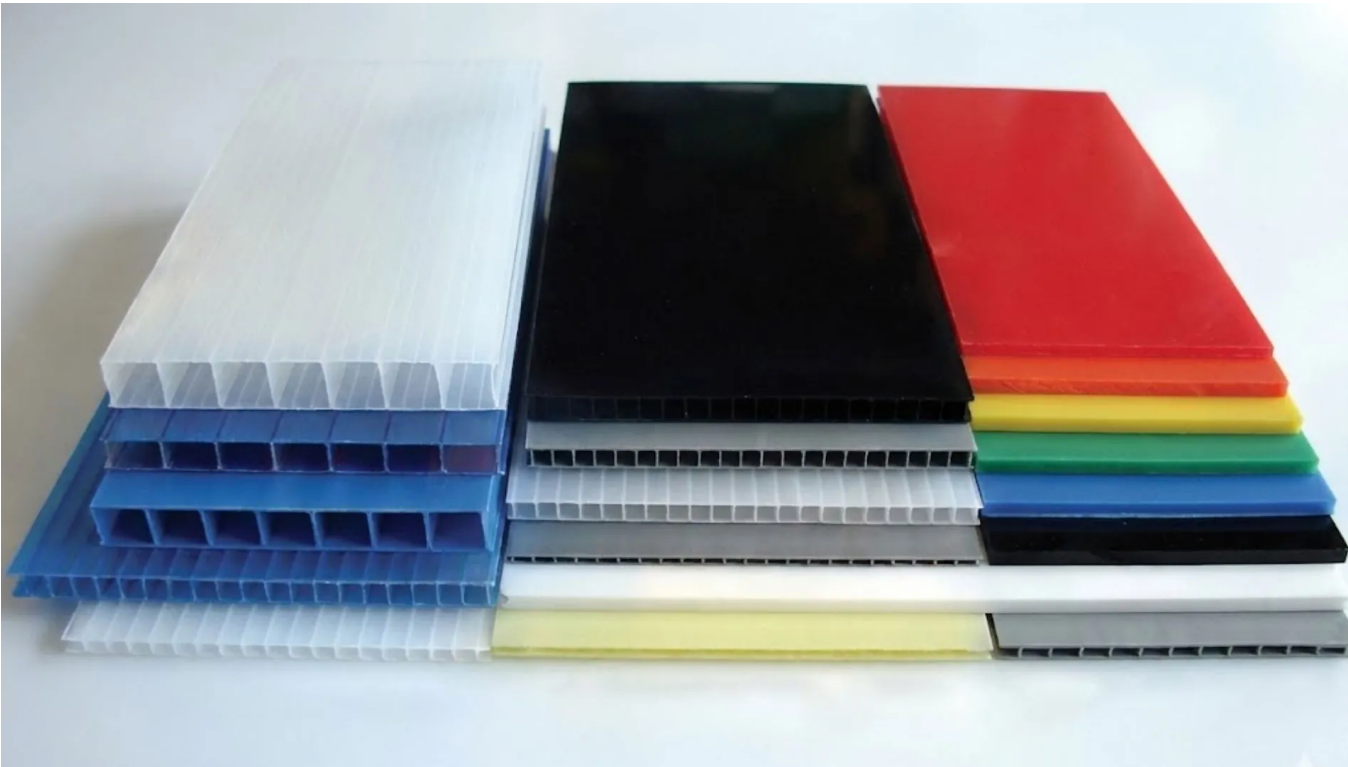
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# **Corona Treatment Machine for Hollow Board Production Lines - ToronCorona™ HBP Applications**

The Corona Treatment Machine for Hollow Board Production Lines – ToronCorona™ HBP is designed for industrial hollow board processing, including:

- Hollow Plastic Board Manufacturing
  - Enhances surface energy on PP, PE, and structured plastic boards for improved ink, coating, and adhesive bonding.
- Packaging & Display Board Production

- Prepares hollow boards used in signage, display panels, and reusable packaging for reliable printing and lamination.
- Construction & Industrial Panels
  - Improves adhesion properties for surface coatings and functional layers applied to hollow structural boards.
- Printing & Converting Lines
  - Ensures consistent corona surface treatment before flexographic, gravure, or digital printing operations.





## FEATURES

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### **Corona Treatment Machine for Hollow Board Production Lines - ToronCorona™ HBP Key Features**

- Dedicated Corona Treatment for Hollow Boards
  - Special discharge system optimized for hollow and structured board geometries.
- Adjustable Discharge Width
  - Electrode spacing can be flexibly adjusted according to board width to prevent silicone tube damage and ensure uniform treatment.
- Simultaneous Double-Sided Processing
  - Treats both sides of hollow boards in a single pass for maximum production efficiency.
- Wide Thickness Compatibility
  - Adjustment supports hollow board thicknesses from 2 mm to 12 mm.
- Dual Discharge Structure
  - Two sets of single-side discharge deliver strong and uniform corona output.
- Synchronized Corona Roller Design
  - Prevents roller stalling and electrical damage during continuous operation.
- High Dyne Performance
  - Post-treatment surface energy can reach up to 60 dynes, supporting high-quality downstream processing.
- Industrial-Grade Construction
  - Designed for long-term stability in high-speed production environments.
- Flexibility to Move
  - The discharge rask is equipped with caster and horseshoe fixed foot as standard, which is easy to move.



Adjustment supports hollow board thicknesses from 2 mm to 12 mm



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Cylinder Opening for Safety Protection



Electrode spacing can be flexibly adjusted according to board width to prevent silicone tube damage and ensure uniform treatment.

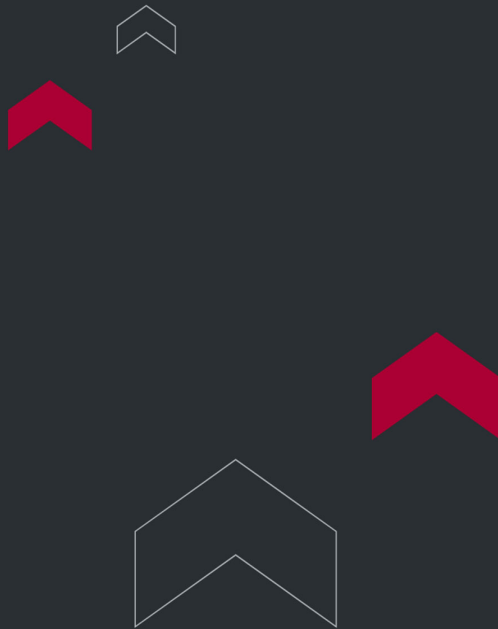
**TECHNICAL SPECIFICATIONS**

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**Corona Treatment Machine for Hollow Board Production Lines -  
ToronCorona™ HBP Technical Specifications**

| Parameter | Specification |
|-----------|---------------|
|-----------|---------------|

|                            |                                                            |
|----------------------------|------------------------------------------------------------|
| Product Type               | Corona Treatment Machine for Hollow Board Production Lines |
| Applicable Materials       | Hollow plastic boards, structured PP/PE boards             |
| Processing Mode            | Continuous inline corona treatment                         |
| Treatment Sides            | Single-side or double-side (simultaneous)                  |
| Board Thickness Range      | 2 mm – 12 mm                                               |
| Discharge Structure        | Dual single-side discharge                                 |
| Discharge Width Adjustment | Flexible, width-based adjustment                           |
| Corona Roller Design       | Internal synchronized structure                            |
| Maximum Surface Energy     | Up to 60 dynes                                             |
| Adjustment Method          | Online mechanical adjustment                               |
| Installation Type          | Production line integration                                |
| Mobility                   | Fixed frame with optional caster configuration             |
| Operating Environment      | Industrial production lines                                |



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