

INDUSTRIAL PLASMA CLEANING MACHINE



Industrial Plasma Cleaning Machine - ToronPlasma™ PCM

Industrial Plasma Cleaning Machine –ToronPlasma™ PCM is a high-performance corona surface treatment-related plasma treatment equipment designed for precision cleaning and surface activation inside a controlled vacuum environment. Using RF-generated plasma, this corona treatment machine alternative removes organic contaminants, residues, and weak boundary layers at the molecular level without mechanical abrasion or chemical solvents.

By generating a highly energized plasma state under controlled pressure, the system bombards the material surface with active ions and radicals, effectively breaking down contaminants and modifying surface energy. This process significantly improves surface cleanliness, wettability, and bonding performance, making the equipment ideal for high-reliability manufacturing and laboratory environments.

APPLICATIONS

Industrial Plasma Cleaning Machine - ToronPlasma™ PCM Applications

This Industrial Plasma Cleaning Machine –ToronPlasma™ PCM is widely used in industries requiring ultra-clean surfaces and consistent adhesion performance:

- Electronics and semiconductor component cleaning
- PCB and microelectronic assembly preparation
- Medical device surface cleaning and activation
- Optical components and precision parts
- Automotive and aerospace component pretreatment

- Laboratory research and materials development
- Pre-treatment before coating, bonding, or printing processes

Image



FEATURES

Industrial Plasma Cleaning Machine - ToronPlasma™ PCM Key Features

- Vacuum RF Plasma Generation for uniform and controlled surface cleaning
- Non-contact, chemical-free process that preserves material integrity
- High-energy plasma bombardment for effective removal of organic residues
- Stable vacuum chamber design for repeatable processing results
- Multiple plasma working states for different material types
- Compact industrial enclosure suitable for production floors and labs
- User-friendly operation with clear process visibility
- Low consumables and minimal maintenance requirements

TECHNICAL SPECIFICATIONS

Industrial Plasma Cleaning Machine - ToronPlasma™ PCM Technical Specifications

Parameter	Specification
Equipment Type	Plasma cleaning machine / plasma-based corona treatment equipment

Parameter	Specification
Plasma Generation Method	RF power supply plasma excitation
Operating Environment	Vacuum chamber
Plasma State	High-energy disordered plasma
Cleaning Principle	Plasma ion bombardment and surface activation
Applicable Materials	Metals, polymers, composites, electronic substrates
Surface Treatment Function	Cleaning, surface energy increase, activation
Process Type	Dry, non-contact, solvent-free
Control Mode	Manual / semi-automatic (model dependent)
Installation Type	Stand-alone floor-mounted unit
Safety Design	Enclosed chamber with controlled pressure operation
Typical Applications	Cleaning prior to coating, bonding, printing



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