

PLASMA SURFACE TREATMENT MACHINE



Plasma Surface Treatment Machine - ToronPlasma™ PS

Plasma Surface Treatment Machine – ToronPlasma™ PS is a compact, high-performance corona treatment machine designed to modify surface energy at the molecular level using atmospheric plasma discharge. By applying high-frequency AC voltage across precision electrodes, the system ionizes ambient air to generate a stable plasma region, activating material surfaces for improved adhesion.

This corona treatment equipment transforms non-polar, low-energy surfaces into reactive, hydrophilic surfaces by introducing oxygen-containing functional groups. The result is a controlled and repeatable corona surface treatment process that significantly enhances bonding performance for coating, printing, and adhesive applications.

Engineered for laboratory and light industrial use, the PS Series combines safety, precision control, and compact design, making it ideal for R&D, pilot production, and quality verification environments.

APPLICATIONS

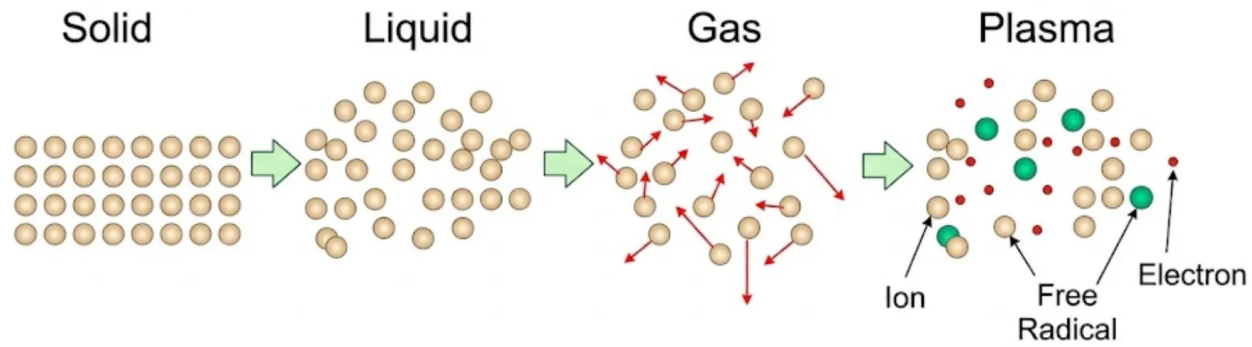
Plasma Surface Treatment Machine - ToronPlasma™ PS Applications

The Plasma Surface Treatment Machine – ToronPlasma™ PS is widely used in applications requiring localized, high-precision surface activation:

- Plastic films, sheets, and molded polymer components
- Electronic components, PCBs, and semiconductor substrates
- Medical devices and laboratory consumables
- Automotive interior plastics and rubber parts
- Glass, ceramics, and composite materials

- Pre-treatment before printing, coating, bonding, or lamination

This corona treatment machine is especially effective where conventional flame or chemical treatment is unsuitable.

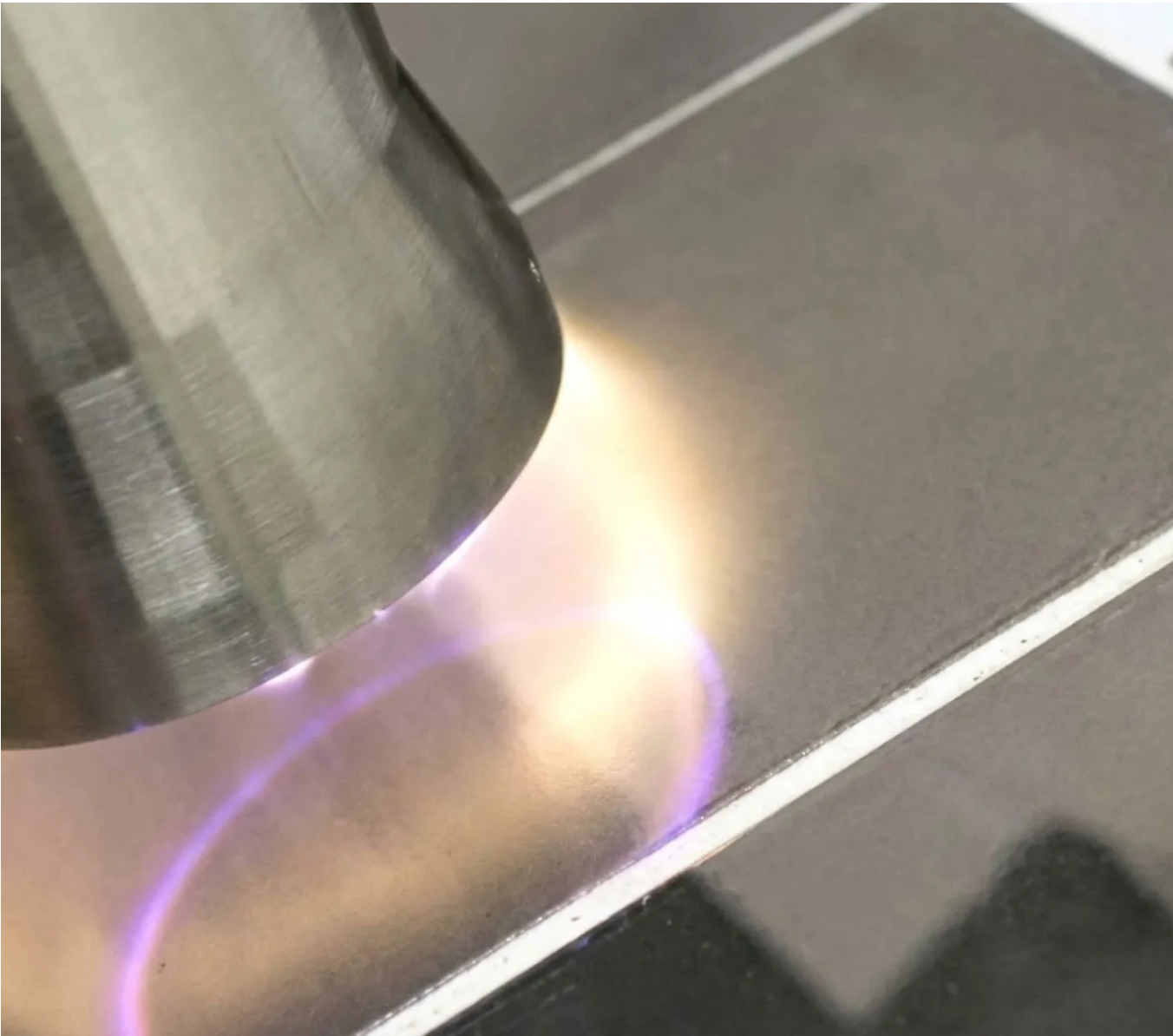




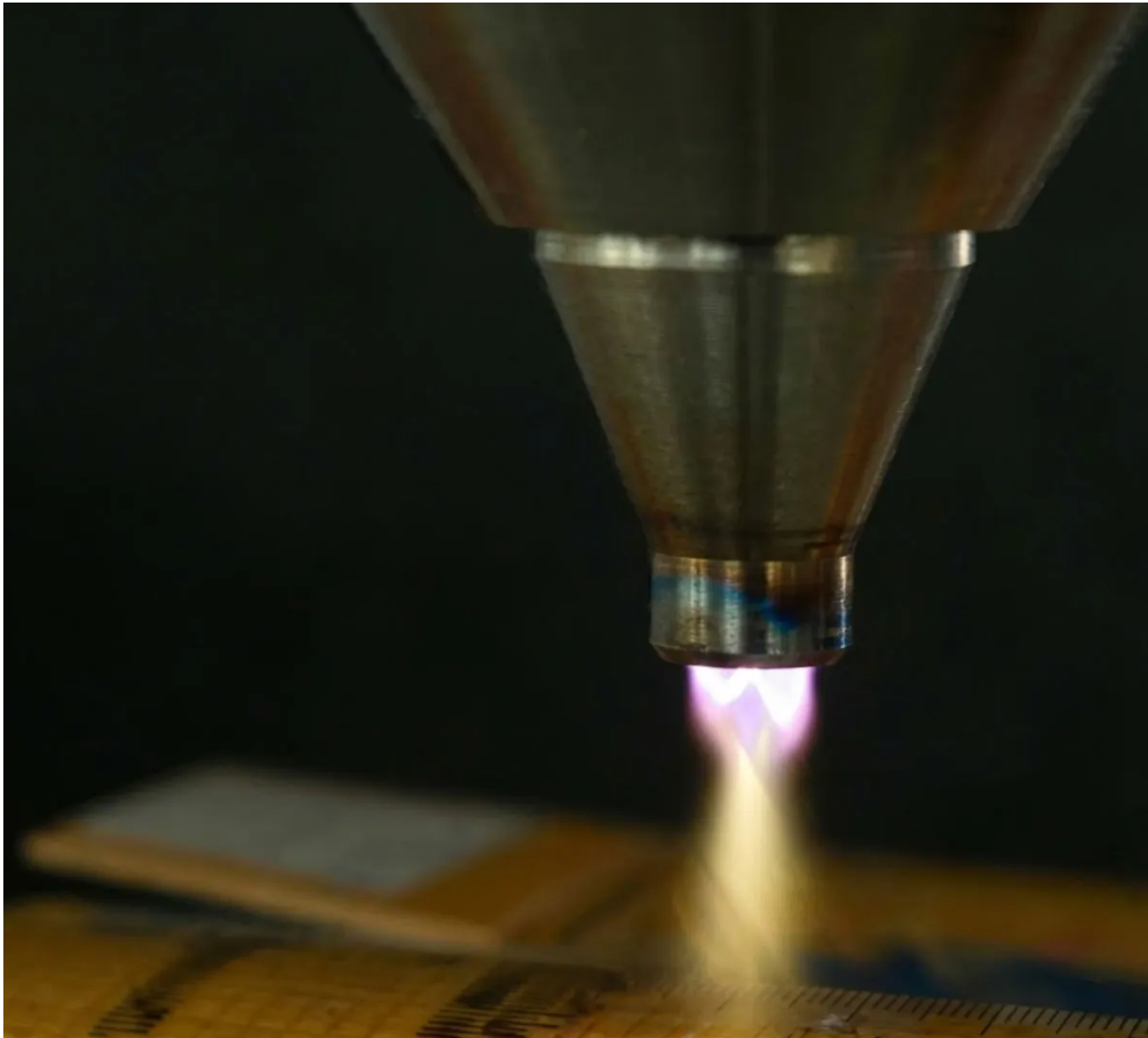
FEATURES

Plasma Surface Treatment Machine - ToronPlasma™ PS Key Features

- Atmospheric plasma-based corona surface treatment with no chemical additives
- High-frequency AC discharge for stable and uniform plasma generation
- Converts non-polar surfaces into hydrophilic, bond-ready surfaces
- Compact benchtop design for laboratory and pilot-scale use
- Precise voltage and power control for repeatable treatment results
- Suitable for both metal and non-metal materials
- Fast treatment response with immediate surface activation
- Safe operation with enclosed discharge and insulated components
- Can clean and pro bonding of display screen glass terminals
- The control cabinet has four universal wheels, which are easy to move and can rotate 360 to push, saving effort and time.



Capable for handling glass material



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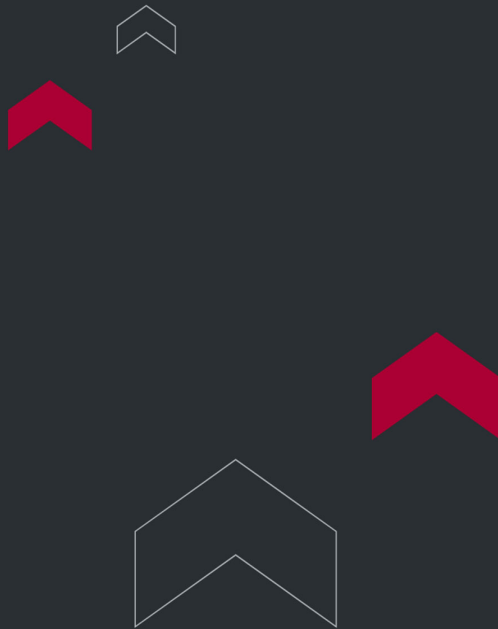
Cleaning and pre bonding of display screen glass terminals.

TECHNICAL SPECIFICATIONS

Plasma Surface Treatment Machine - ToronPlasma™ PS Technical Specifications

Parameter	Specification
Model	ToronPlasma™ PS
Input Voltage	AC 220V ±10%, 50/60Hz (110V is also available)
Power Interface	10A / 250V
Working Frequency	15 kHz – 35 kHz
Output High Voltage	2 kV – 7 kV
Maximum Output Power	1000 W
Maximum Power Consumption	≤1100 W
Working Pressure Range	0.05 MPa – 0.4 MPa
Air Source Requirement	Clean, dry compressed air
Plasma Discharge Length	Approx. 120 mm
Effective Treatment Width	Up to 60 mm
Adjustable Treatment Gap	Yes
Sample Thickness Range	0 – 2.5 mm
Equipment Dimensions (L × W × H)	Approx. 500 × 250 × 300 mm
Weight	Approx. 15 kg

Parameter	Specification
Operation Mode	Manual / Semi-automatic
Application Environment	Laboratory / R&D / Pilot Production



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