

F1Z-1000-Plasma Surface Treatment Machine (Rotating Gun)

Advantages of Plasma Treatment Machine:

- High Activation Performance - Significantly enhances the wettability of material surfaces, creating active surfaces that facilitate subsequent coating and bonding.
- Enhanced Coating Adhesion - Through surface coating treatment, improves surface adhesion, increasing bonding reliability and durability, suitable for industrial coating and bonding processes.
- Excellent Cleaning Effect - Effectively removes dust and oil stains, achieving fine cleaning and eliminating static electricity, particularly suitable for applications requiring high cleanliness.
- Improves Printing Quality - As a pre-printing surface treatment, it significantly increases ink adhesion, enhancing printing quality.
- Multi-functional Surface Treatment - Suitable for various materials, such as polymer plastics, ceramics, glass, PVC, paper, and metals, enhancing surface energy and improving surface tension characteristics to meet different industrial needs.
- Gentle Treatment, Material Protection - Uses low-temperature plasma technology to break molecular bonds on the material surface, increasing chemical reaction activity without affecting the material's base properties, ideal for treating heat-sensitive polymer materials.

Wide Range of Applications:

- Electronics Industry - Suitable for LCD screens, casings and buttons, PCB surface cleaning, lens pre-bonding treatment, wire and cable marking pre-treatment.
- Automotive Industry - Used for pre-bonding treatment of car lampshades, brake pads, and door sealing strips.
- Mechanical Industry - Metal parts cleaning, lens coating pre-treatment, industrial materials bonding and sealing pre-treatment.
- Printing and Packaging Machinery - Pre-gluing treatment of edge positions.
- Medical Equipment - Pre-bonding treatment of needles and plastic catheters.
- Surface Printing, Hot Stamping, Adhesion, Pre-gluing Treatment - Cleaning and activation of various material surfaces, improving adhesion.

Precision-Controlled Three-dimensional Surface Modification

- Utilizes low-temperature plasma flow treatment technology to achieve three-dimensional object surface modification, providing uniform and stable treatment effects.
- No warm-up required, ready to use, can be started and stopped at any time.

Superior to Corona Treatment

- Plasma treatment machines can achieve surface energy levels more than 10 dyn higher than corona treatment machines. For UV or water-based ink printing on PP and BOPP, plasma ion treatment is required.
- *Note: Dyne value is the surface energy of a material; the higher the value, the better the material can accept ink adhesion. Water-based ink has the poorest adhesion, so the surface dyne value needs to be high.



Model / Name	F1Z-1000 / Atmospheric Plasma Surface Treatment Machine (Rotating Gun)
Supply Voltage	220(± 10%) VAC, 50/60Hz
Power Input Fuse	10A/250V
Operating Frequency	18KHz ~ 60KHz
Working High Voltage	2KV ~ 10KV
Maximum Practical Output Power	1000W (Based on actual situation)
Working Pressure Range	About 0.2MPa ~ 0.3MPa(2Kg ~ 3Kg)
Air Source Requirements	≥0.3Mpa(3Kg), <1MPa (10Kg), Oil free and water free
Host Size	580*300*360mm
Power Cable Length	1800mm
Rotating Gun Nozzle Diameter	30mm ~ 100mm (Standard configuration 70mm)
Weight	15kg
Model / Name	F1Z-1000-LS / Plasma Treater Gun Adjustable Height Stand
Dimension	250*300*560mm
Adjustable Height	200mm

