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- Easy to install and use
- Fast treatment times
- Standard or customized chambers
- Process gas
- Process control
- Cost efficient surface treatment
- Vacuum pressure plasma
- Works in fully automated lines

VacuLINE – Vacuum Plasma Treater

Standard and Customized Vacuum Plasma Treaters



The Tantec VacuLINE Plasma Treater is designed for treatment of a variety of different injection moulded parts. The machine is ideal for in-line production, where no operators are needed. The VacuLINE system offers very fast treatment time and optimum adhesion properties for downstream coating, gluing, painting and printing applications.

In the treating chamber a vacuum builds up to between 0,1 and 4,0 mbar before an electrical discharge is created through the integrated plasma electrode. Treatment cycle times are often short, between 20-180 seconds depending on the material and its formulation.

The VacuLINE plasma treater, is appreciated for its simplicity of operation, reliability in production and fast process speed. Treating gasses, such as argon and oxygen, can be applied but in most cases, this is not necessary due to the high power delivered by the plasma discharge.

VacuLINE uses the advanced Tantec power generator HV-X series as power supply, and specially designed plasma transformers to provide voltage to the plasma electrodes.

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Easy to install and use

Connects to main power and compressed air.

Fast treatment times

High power impact enables treatment times from 20-180 seconds depending on materials.

Standard or customized chambers

Chamber size can be designed to most applications.

Process gas

Process gasses such as oxygen and argon can be used, but in most cases it is not necessary.

Process control

Entire plasma process is controlled by the HV-X generator and PLC unit. All parameters are displayed on the touch panel. (Standard – Proface).

Cost efficient surface treatment

Due to the low power and no need of special treatment gasses, the unit is a very cost efficient solution for improving surface wettability and adhesion.

Vacuum pressure Plasma

Enables treatment of both conductive and non-conductive surfaces.

Works in fully automated lines

Integrates easily into robot cells or existing transportation lines.

Technical Specifications	VacuLINE
Mains Voltage and Frequency	3 x 400 VAC + N + PE 50/60Hz
Plasma power	0 - 6000 Watt
Power supply	HV-X plasma generator series
Compressed air inlet	5-6 bar dry and clean
Process gas	Standard: air. On request: Oxygen, argon and nitrogen
Vacuum pump capacity in m3/min.	15 to 240 m3/min., depending on size of vacuum chamber
Vacuum level	0,1 - 4,0 mbar
Evacuation time, typical	15 - 120 seconds, depending on chamber size and pump capacity
Plasma treatment time, typical	20 - 180 seconds, depending on material
Control and connectivity	Complete with touch panel. (Standard – Proface)
Regulation compliance	CE - RoHS - WEEE