

Product Information

PlasmaTEC - Atmospheric Plasma



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Generator HV-X-PlasmaTEC and Transformer HT-X10 Single & Dual

Tantec's Power Generator HV-X PlasmaTEC is a new series of advanced power supplies for atmospheric plasma systems, versatile for stand-alone surface treaters or as a fully integrated treater component in automated lines built by OEM's.

The PlasmaTEC offered by Tantec permits easy surface treatment of a large variety of parts. Its concept is based on the principle of a high-voltage discharge in a high-frequency area. Compressed air presses the discharge outside the nozzle head.

The microprocessor-controlled HV-X PlasmaTEC systems are available with 2000 Watt power output and can operate up to four plasma nozzles. PlasmaTEC transformers type HT-X10, are equipped with air

pressure monitoring and regulation, pressure switch with alarm output and outputs for either one or two robot proof plasma nozzles from each transformer.

Dual transformer configuration with one power supply is possible.

The PlasmaTEC system provides an economical solution for the effective surface treatment of a large number of different materials and part shapes. The entire system is easily integrated into new or existing production lines.

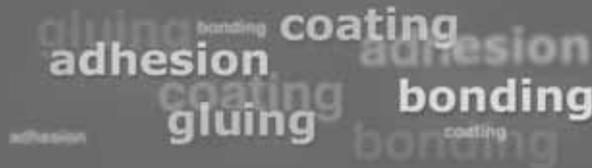
TECHNICAL DATA

Features:

- ▶ Easy to install
- ▶ Potential free discharge
- ▶ High speed production
- ▶ Adjustment free
- ▶ Single and multiple nozzle configurations
- ▶ Different nozzle tips
- ▶ Output discharge control

TechnicalData

Plasma & Corona Treaters



Features:

Easy to install

This system requires no adjustment of treatment parameter. Connect to mains power and compressed air.

Potential free discharge

Allows treatment of both conductive and non-conductive surfaces.

High speed production

High power plasma discharge allows for high line speeds up to 400 m/min.

Adjustment free

The entire system will not require any adjustments or fine tuning once installed.

Single and multiple nozzle configurations

A single HV-X plasma generator can power from 1 to 4 nozzles.

Different nozzle tips

Both round and oval nozzle tips are available.

Output discharge control

Should the discharge power drop below the preset level, the generator will signal an alarm.

Technical Specifications	HV-X PlasmaTEC	HT-X10 Single	HT-X10 Dual	PlasmaTEC Nozzle
Mains voltage and frequency	100-240 VAC 50/60 Hz	N/A	N/A	N/A
Output voltage/power	Max. 400 Vp/0-2000 Watt (115 V max. 1500 Watt)	1 kV	1 kV	N/A
Power consumption	Max. 2150 VA	N/A	N/A	475-525 Watt
Ramp up time	5-30 ms, depending on power load	N/A	N/A	N/A
Shut down time	< 1 ms	N/A	N/A	N/A
Dimensions in mm (LxWxH/OD)	430 x 470 x 200	470 x 251 x 200	470 x 251 x 200	232 x OD 35
Interface control and connectivity	16-pole Phoenix control connector for external PLC interface	10-pole ILME connector with multicable (Standard 4 mtr.)	10-pole ILME connector with multicable (Standard 4 mtr.)	M40 swivel nut with robot proof supply hose (Standard 1.8 mtr)
Weight in kg	14.5	9.5	11.7	1.7
Treatment width in mm	N/A	N/A	N/A	8-14 mm
Compressed air supply	N/A	5-6 bar dry and clean	5-6 bar dry and clean	N/A
Air consumption	N/A	N/A	N/A	35-50 ltr/min
Regulation compliance	CE - RoHs - WEEE	CE - RoHs - WEEE	CE - RoHs - WEEE	CE - RoHs - WEEE

