

PLASMATREAT Openair® Plasma-Treatment Unit new 2016 / unused

Purchase Value: ca. 250.000€

Consisting of: PFW 10 Plasma Nozzle, HTR 12 Plasma-High-Voltage Transformer and High-Power Generator FG 5005 S

Pretreatment with the Openair® PFW10 plasma nozzle is done with very high contour accuracy and is potential-free (no transfer of voltage to the material). This type of plasma nozzle is mainly used when parts are to be plasma-treated with high process speed, high energy, or selectively when only a certain part of a work piece (e.g. a bonding groove) is to be treated. The Openair® PFW10 plasma nozzles are also well suited for the potential-free plasma treatment of very sensitive components, such as circuit boards.

PFW 10 Plasma Nozzle



PFW 10 Plasma nozzle Wide Range Openair® - Plasmajet

Utilized for Treatment of a wide range of Materials metallic and non-metallic. The Plasma Single Jet is made of robust stainless steel quality. Treatment width is up to 15 mm, treatment depth up to 20 mm, both subject to speed, distance and materials. Almost abrasion-free. Treatment Speed up to 400 m/Min, depending on material. Nozzle Head: according specification Standard PTF 2636-1.

Application Examples:

- Plasma cleaning and activation of plastics, metals and glass
- Films and Three-Dimensional Components
- PP headlight housing: precise Pretreatment of the flute bonding groove
- Bottle labeling: inline; aqueous waterbased adhesive systems can be used.
- EPDM profile: 10-fold nozzle arrangement for lamination on all sides
- Aluminum profiles: arrangement in the Nozzle Tool as a substitute for pickling and chromating
- Cartons: Pretreatment of the longitudinal seam, Speed up to 600 m/min
- Optimal tuning of the Pretreatment Process to the specific properties of the work piece

HTR 12 Plasma-High-Voltage Transformer for one Jet Single mounted



Plasma Transformer suitable for connection of all Plasma Jets:

- High Efficiency factor, complete EMV shielding
- Low thermal heating
- Performance max. 1 kVA up to 25 kHz
- Wear free, dry, oil free moulded connecting cable
- Temperature Range 0 to 40 Deg C
- IP 54 aluminium housing for robust industrial conditions
- Weight: 10 kg, flange assembly

High-Power FG 5005 S Generator

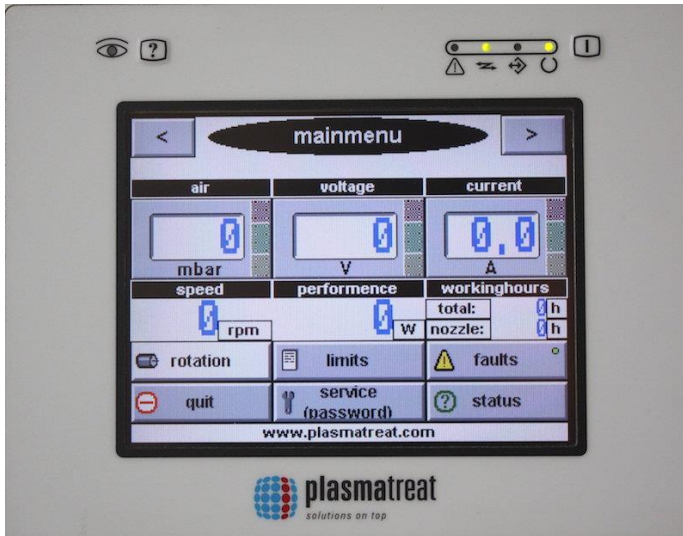


INDUSTRIAL CONTROL PANEL FOR INDUSTRIAL MACHINERY CE

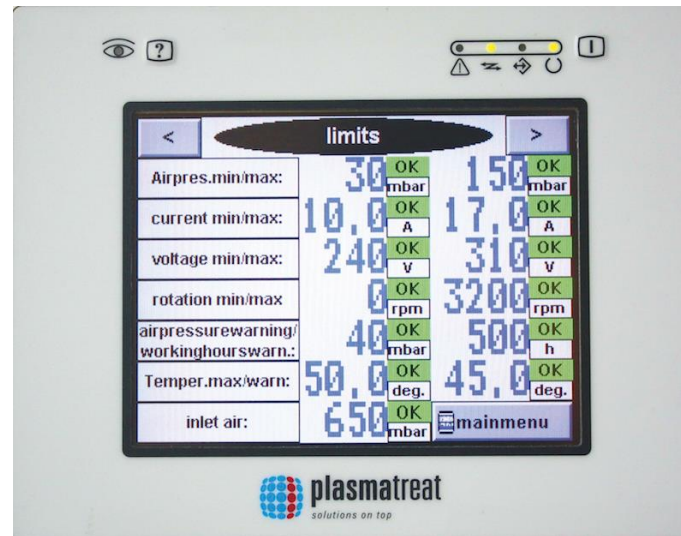
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|---|---------------------------------------|
| Electrical drawing number: | GM4741/01-0270 |
| Full load amps: | 20 AMPS |
| Largest Motor: | N/A |
| Largest Heater Load: | N/A |
| Voltage: | ~3/(480/277VMax)/3W + GND |
| Phase and Frequency: | 3 Phase + GND + 50/60Hz |
| Max SCCR: | 65KA RMS symetrical, 480VAC |
| Main overcurrent protection: | Class LPJ, , 600 VAC, 20A, I.R. 300KA |
| Supply Fuse (field provided): | 600VAC, max 30 A, min 65KA |
| Max air pressure: | 6 bar |
| IP Type EN60529 | 54 |
| Supply conductor and machine overcurrent protection provided at main supply | |

S-Series with extensive integrated process control, highest availability due to monitoring, diagnostic and service functions. The combination of the latest semiconductor technology, extensive sensors and maximum ease of use provide the Series 5000 generators with excellent performance. Using integrated analog monitoring of the pressure in the plasma chamber, of current, voltage and frequency – along with the analysis of light emitted by the plasma – the highest level of process reliability is achieved.

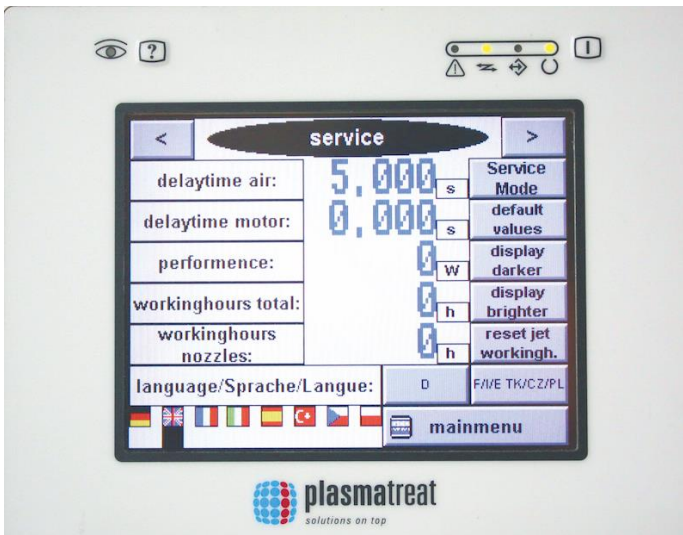
The user-friendly touchscreen control panel for controlling the Generator is designed clearly. Signal-chaining to higher- and lower-ranking controls is integrated:



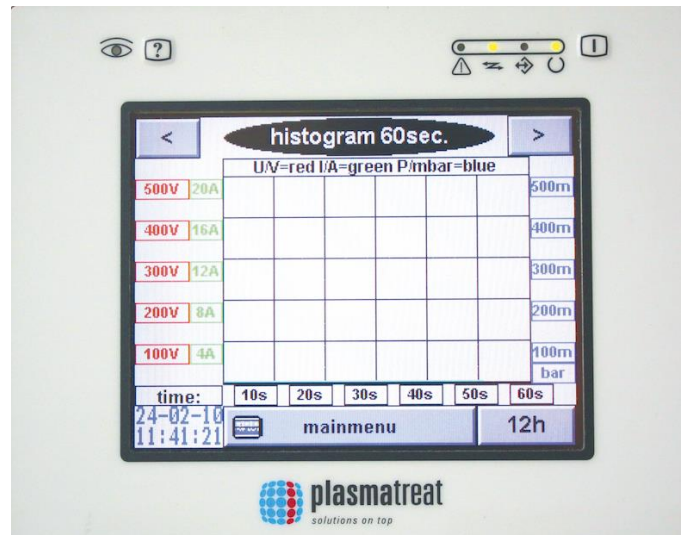
Touchscreen Control Panel



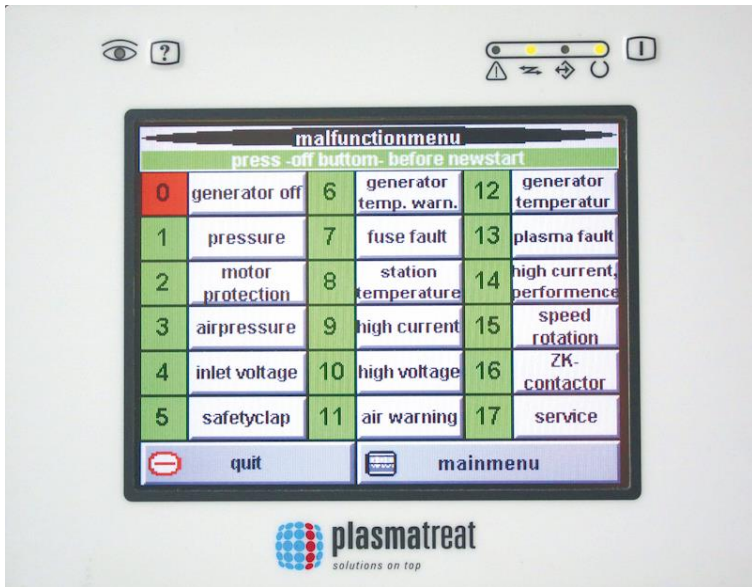
Limits



Service Menu



Histogram of the real Values



Fault Menu

Typical Applications:

- Integration into complete Systems
- Suitable for multiple shift operation under heightened environmental conditions
- Industrial Applications where extensive protocol Functions are required
- Robot-supported Production Systems

Main Features of FG 5005 S Generator:

- Digital High-Frequency plasma Generator. System and Power control using integrated Micro-Controller
- Touchscreen control panel to display status and fault messages and ergonomic Operation
- Integrated service manual
- Power Output: 5kVA for activating a maximum of 4 or 8 Plasma Nozzles
- Voltage supply of 3x 400V
- Operating temperature range: 0 – 40 degrees Celsius
- Service-specific Installation in the Control Cabinet
- Extensive monitoring functions for maximum process reliability and reproducibility

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