

Low Pressure Plasma System



Applications

- **Cleaning of surfaces**
(e.g. before bonding, soldering or gluing)
- **Activation of surfaces**
(e.g. before printing, varnishing or gluing)
- **Etching of surfaces**
(e.g. before microstructuring of silicon or etching of PTFE)
- **Deposition of surfaces - plasmopolymerization**
(e.g. deposition of hydrophobic / hydrophilic layers)

Technical Data

1. Switch cabinet:

W 580 mm (23") x H 650 mm (26") x D 600 mm (24")

Weight: approx. 45 kg (without pump)

2. Plasma chamber:

Nano: Ø 267 mm, L 420 mm (stainless steel recipient)

Nano UHP: Ø 240 mm, L 400 mm (glass recipient)

Chamber volume: approx. 24 litres / 18 litres

3. Gas connection:

2 pcs. gas channels controlled with needle valves

4. Plasma power supply:

40 kHz / 300 W, infinitely variable

5. Electrodes and trays:

1 pc. electrode and 1 pc. tray

6. Electric control:

Semi automatic, process timer

7. Connections:

Gas: 6 mm Swagelok

Power supply: 110 - 120 V or 220 - 240 V AC / 50 - 60 Hz

Exhaust tube: Ø 10 mm

8. Vacuum pump:

Rotary vane pump, suction power: 8 m³/hr

Pump is able to run with O₂



Plasma system Nano:
back side

Applications

- Automotive
- Elastomer industry
- Electronics
- Medical technology
- Micro systems technology
- Optics
- Plastics industry
- Precision mechanics
- Research and development
- Semiconductor industry
- Small scale manufacturing
- Textile treatment
- ...

Options / Accessories

- 13.56 MHz generator
- 2.45 GHz generator (microwave)
- Bias voltage measurement
- Chamber: quartz- or borosilicate glass
- Corrosive gas version
- Fully automatic control
- Heating plate
- Mass-Flow-Controller
- PC control
- Polymerization accessories
- Pressure reducing valve
- RIE electrode
- Rotary drum
- Spare parts kit
- Test ink
- ...



Grid cut test on PBT:
without plasma treatment



Grid cut test on PBT:
with plasma treatment

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