Atmospheric pressure plasma device for all standard and high-performance plasma applications on various materials

The plasma technology VP4 is suitable for all ultra-fine cleaning or activation processes prior to bonding, potting or any other process that requires a clean and sufficient surface energy to create adhesion. A repeatable and stable process is guaranteed by a continuous process control of the relevant parameters. All VP4 systems can be easily integrated into your production, whether manual, lean or fully automated productions lines.

Thanks to the compact plasma head design, a high-voltage cable is no longer required. This results in high energy efficiency, as there are hardly any power losses any more.
**VARIABLE PLASMA VP4**

**ELECTRICAL CABINET**
- Plasma generator
- Integrated panel PLC control
- User management
- Error management with clear text messages
- Data logging of clear error messages
- Process analyses
- Unlimited program memory
- On-screen process data
- Maintenance function
- Digital interface standard
- Profibus/Profinet/Ethercat, optional

**TECHNICAL DATA**
- Size (W x H x D): 600 x 600 x 300 mm
- Protection: IP54
- EMC: DIN EN 61000-6-2 and DIN EN 61000-6-4
- Control: Beckhoff SPS Windows 7 embedded
- Operation: Touch panel, colored
- Power consumption: max. 1.300 W
- Electrical power supply: 230 V L N PE 50 / 60 Hz 10 A
- Weight: approx. 50 kg
- Color: RAL 7035 (ESD)

**AIR PRESSURE TREATMENT**
- Filter regulator (5µm) with condensate trap
- Micro filter unit (0.01µm)
- Activated carbon filter
- Gas pressure sensor
- Gas flow sensor
- Filter change notification

**TECHNICAL DATA**
- Air pressure supply: 6 bar
- Connection: DN 6
- Air quality: Class 7.4:4 according ISO 8573-1:2013
- Standard process gas: Pressurized air
- Air consumption: max. 65 l/min
- Weight: approx. 3.7 kg

**PLASMA HEAD**
- Active cooling
- Base plate for fixing
- Quick-change system nozzle and electrode
- Nozzle for electronics, optional
- Electrical cable to cabinet (standard plug-in coupling)
- Air supply connection

**TECHNICAL DATA**
- Length: approx. 286 mm (incl. standard nozzle)
- Diameter: 104 mm
- Weight: approx. 4.5 kg
- Protection: IP54
- Air supply: DN 6, Festo quick-release
- Electrical connection: Ø 12 mm, length up to 30 m, Plug-in coupling

**PROCESS CONTROL / ANALYSIS**
- Power monitoring
- Working voltage monitoring
- Ignition check
- Gas pressure monitoring
- Gas flow monitoring and regulation
- Operation counter

**TECHNICAL DATA**
- Process and component optimization in internal development areas
- Trials and development in well equipped technical center
- Trainings for machine user, machine setter and maintenance personnel
- Workshops for machine user, machine setter and maintenance personnel

(Errors and changes reserved, as of July 2017)

**SET POINTS**
- Power 50 - 100 %

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Dispensing Impregnation Plasma Hot Riveting