

Plasma complete solution for the stationary use in production lines



The PlasmaBrush PB3 Integration was developed as a complete solution for the integration in existing production lines. The plasma solution is intended to be positioned near the system. The device control is operated using a remote control or through connecting to a higher-level control. So different integration scenarios corresponding to the customer requirements are possible. The flexible applicable integration package is a complete system with compressed air connection, corded operating unit, plasma generator and nozzle.

Possible uses

- ◇ Surface activation and surface functionalisation for optimised wettability
- ◇ Coating for new surface properties
- ◇ Plasma-assisted laminating processes and adhesive bonded joints
- ◇ Plugging and sealing
- ◇ Plasma-induced reduction of metal surfaces
- ◇ Fine cleaning of metal, glass and plastics
- ◇ Chemical-free bleaching of textiles
- ◇ Treatment of food products: improve quality and shelf life
- ◇ Sterilisation of fabric and thermally unstable plastics
- ◇ Multi-component injection moulding

Technical data

Electrical connection: 220 – 240 V AC
Power consumption: max. ≤ 1500 W
Weight: 50 kg; 110.2 lbs
Dimensions in mm (B x H x T): 610 x 780 (1070) x 430
Gas flow rate: 40 – 80 l/min
Gas types: compressed air and nitrogen
Cable length: 5 m



Treatable material classes

- ◇ Metals, metal alloys
- ◇ Plastics and composite materials
- ◇ Glass, ceramics, inorganic composites, natural stone
- ◇ Real leather, imitation leather
- ◇ Natural fibres, wood, paper



plasmabrush® PB3 Integration

Application

The gas supply takes place over an external gas. The device has a gas monitoring and a gas maintenance unit. The integrated gas flow meter with minimum value and display informs about the gas flow. The power switch is turned off if the gas flow is too low. The plasma generator is equipped with an additional holder and a textile protection tube for the cable and gas hose.

Nozzles for the PlasmaBrush PB3 Integration

Three different nozzles are available for the PlasmaBrush PB3 Integration, which are optimized for low-potential processes, sensitive materials or for high process speeds.



Controlling of the device

The manual controlling can be made with the separately offered remote control. For the safety of the manual use an emergency off switch is integrated. So the process could be stopped immediately. The restart after an emergency off is only possible after acknowledging the error on clicking the intended button on the remote control.

The controlling over a higher-level system controller enables the automatical integration of the PlasmaBrush PB3 Integration into existing production lines.

