

LinearPlasma

Plasma Surface Modification



Surface treatment of thick and sensitive materials

The SOFTAL developed and patented LinearPlasma Technology provides the advantage of allowing surface treatment of extremely thick materials up to 2 metres wide in an economical way. The Plasma is directed only to the surface of the material being treated. There is no Plasma discharge created in the hollow parts of the material, and as a result no ozone is generated within the material. Hence, surface treatment of hollow structured materials, for example extruded hollow board, foam and honeycombed materials is made possible. Unlike classic corona treatment there are no localized parasitic discharges created in the LinearPlasma. This permits surface modification of sensitive materials and very thin coatings.

Product features

Innovative technology

LinearPlasma combines the advances of Corona with Plasma Jet technology.

Unlimited material thickness

No counter electrode is required which restricts the maximum thickness of substrate material.

Gentle treatment of your material

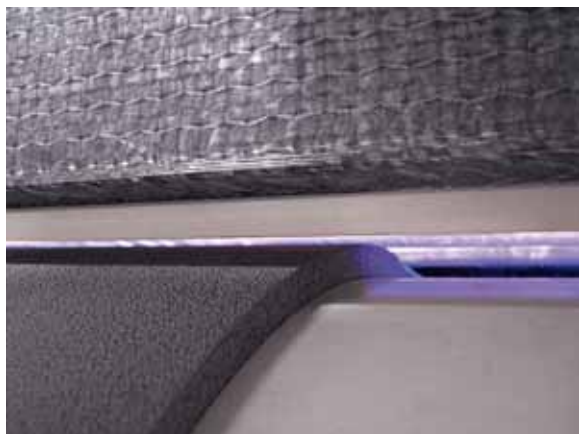
Streamers and parasitic discharges are not generated with LinearPlasma preventing damage to material surfaces or perforation.

Treatment of thermally sensitive materials

The low power possible with LinearPlasma facilitates treatment of thermally sensitive materials.

Adhesion guaranteed!

LinearPlasma LPF / LPP



- LinearPlasma treatment of 10 mm thick foam.



- Full image of a LinearPlasma station.

Technical features

- Treatment of materials with unlimited thickness.
- Treating width up to 2000 mm.
- Low thermal stress of the treated material due to highly efficient LinearPlasma electrode.
- Single or double side treatment.
- Compact design, that can be easily integrated into your manufacturing process.
- Special ceramic isolator assemblies to ensure optimum high voltage isolation.
- Stable plasma gap with adjustment at each side frame.
- Complete ozone extraction directly through each electrode housing.
- Ozone extraction monitor.

Options

Potential free treatment, high voltage transformer mounted to the side frame, central plasma gap adjustment at the operator side of the station.

Technical Data

Type of electrode	Ceramic (KB4)
Number of electrodes	1 (standard)
Width of treatment	max. 2 m



Improved dyeing



No more wet chemicals



Low operating cost



Improved adhesion



High wettability



Custom-engineered solutions



SOFTAL Quality



Environmentally friendly process



Uninterrupted operation process