

## IN AIR PLASMA

Plasma treatment works under atmospheric pressure conditions, enhancing the bonding of inks, varnishes, glues and coating on polymers, plastic parts, cardboard and metals. In Air Plasma **does not produce ozone**.

### CHARACTERISTICS

Ferrarini & Benelli's plasma system is composed of a high-frequency digital generator with integrated transformer and one or two dedicated nozzles.

The treatment area is about 10 mm wide.

The LCD **multilingual** control panel, available in a remote **box** or integrated in the generator, assures clear and simple operability and selection of the available **functions**:

- stop / start control
- manual power control
- set power, output power and working frequency display
- current overload limitation
- alarms and diagnostics (short circuit, over temperature, air presence control).

**The nozzle**, built with stainless materials, is connected to the generator by means of a shielded cable 2,5 m long and it is equipped with a pressure regulator complete with manometer.



### APPLICATIONS

**Printing:** Pad printing, Silk-screening, Ink-jet printing, pipes and coding of electrical cables.

**Laminating:** improvement of the durability and reliability of gaskets, application of glue on folding cartons, flocking on rubber and plastic.

**Cleaning:** removal of dust and grease from plastic, steel, metal and semi-finished products.

### PEX PIPES TREATMENT

**PEX pipes**, used mainly in heating and air conditioning systems, are ink-jet coded which allows the manufacturer to identify the product in order to comply with the warranty conditions required by the standards.

In Air Plasma **improves the ink jet coding process** of the pipes enhancing the ink adhesion making it permanent in time.

By means of a nozzle on the pipe extrusion line - before the marking - the surface tension of the polyethylene is increased, and the ink adhesion is optimised.



**This is just one of the many applications of plasma treatment**