



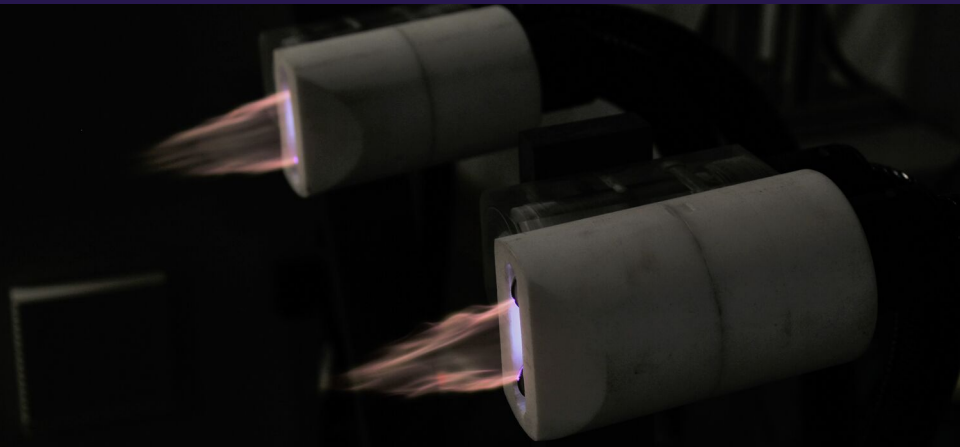
# Eltech Engineers Pvt Ltd

WE TREAT ANYTHING....

Since 1992



An ISO 9001 - 2015 Company



## PLASMA ARC TREATMENT

### Who are we ?

ELTECH ENGINEERS PVT LTD , established in 1992 is an ISO 9001:2015 certified Indian Company engaged in the manufacturing activity of Corona treater, Plasma Treatment Systems, Static Charge Eliminator,Static Chargers,Static Meters, Ionizing Air gun,Blowers etc. Our clients always look upto us for their different requirements because of our high quality standards, superior performance, zero defect products, timely deliveries and very reasonable price.

## About Plasma Arc Treatment -

Eltech's Plasma Arc treating is ideal for improving the surface energy of non conductive surfaces. Higher surface energy facilitates quality printing on plastic parts and polymer surfaces as well as promoting the adhesion of labels and coatings. Blown-arc plasma effectively treats extruded, pultruded, molded and formed materials. Treatment is ideal for PE, PP, PET, nylon, vinyl, polystyrene, polycarbonate, PVC and all other types of thermoformed and thermoset plastics. Applications for blown-arc plasma treating include printing, painting, coating, bonding and labeling applications.

## How plasma arc treatment works ?

Plasma Arc is formed by blowing atmospheric air past two high voltage power electrodes and is sometimes referred to as corona treatment. The electrical discharge positively charges the ion particles surrounding it. Through direct contact, these particles positively charge the treated area of the object's surface. This makes the surface more receptive to any applied substance such as inks.

### Features

- Advanced IGBT Technology
- Compact simple construction
- Ultra High Frequency
- Soft Start
- Maximum operator safety
- Forced cooled convertor for longer life



## Printing

Surface treating parts prior to printing enhances ink adhesion. It makes printing easier, and for others it makes printing possible.

## Painting

Injection molded or thermoformed parts are often treated prior to painting. Surface treatment allows the paint to adhere and also increases the life and durability of the paint on the object's surface.

## Coating

Products are coated to protect their surfaces from harsh environments or as decoration. Doors, frames, and extrusions/profiles are often coated. The medical industry uses surface treating to improve adhesion of antimicrobial/antibiotic coatings.

## Bonding

Bonding is primarily used to increase the strength of an adhesive. The medical and automotive industries rely on surface treating to remove contaminants such as dust, grease, oils, or mold to improve bonding. Typical cleaning solvents such as methyl ethyl ketone (MEK), trichloroethylene, toluene, or acetone may be used for this purpose, but cleaning agents that leave a film residue upon evaporation will retard bonding.

## Labeling

Surface treating caps, bottles and lids ensure that labels will not peel off before complete destruction of the label occurs. Air, flame and chemical plasma treatment of materials like HMWHDPE can effectively improve adhesion of labels.

Eltech's Plasma Arc system readily solve surface adhesion problems for a wide variety of products and applications:

- Caps and closures
- Cups and containers
- Painting and decorating
- Consumer products
- Extruded pipe, tubing, profiles
- Medical and health care products
- Electrical/electronic components
- Direct printing
- Hot stamping
- Laminating
- Pad printing
- Adhesive coating
- Wire and cable

### ***Technical Specifications :***

Treating head : 25 mm/ 50 mm width

Mains supply : 230 VAC

Mains frequency : 50HZ

Speed : As per material and product

Output frequency : 30 Khz

App. output power : 1000 watt

Plasma output : Constant at same speed

No influence of supply voltage

Dynes level : 38-48 Dynes/cm

Dimension : 375 mm x 300 mm x 875 mm

Weight : 35 kg

