



Eltech Engineers Pvt Ltd

WE TREAT ANYTHING....

Since 1992



An ISO 9001 - 2015 Company



VORTEX PLASMA 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 Vortex Plasma Treatment -

Eltech's New Vortex Plasma treatment system is built around the concept of a high voltage Plasma discharge in atmospheric air while the plasma head is rotating. The versatility of this unit allows for use in fully integrated on robots, as a standalone unit, or any production line for covering more treatment area as the treatment head diameter is larger & rotating.

The purpose of surface treatment of polymer based materials is to increase surface wettability through plasma discharge. The low surface energy of polymer based substrates often leads to poor adhesion of inks, glues and coatings. To obtain optimum adhesion, it is necessary to increase the surface energy of the substrate to just above that of the material to be applied. Surface treatment with plasma results in improved surface adhesion properties.

Eltech offers a cost effective method for optimising the adhesion properties of printing inks, coatings, glue, paint onto a polymer surface including commonly used materials like polypropylene and polyethylene. This universal system developed by Eltech operates with special rotating DC motor for spinning Plasma Nozzles pointing inwards for uniform treatment and to minimize heat impact & Cover larger area. The system is able to rotate up to 3000 rpm / min. These self contained units can be installed within existing production lines or used as an off line process.

The system includes a high frequency generator, high voltage transformers, rotary plasma heads and customised stand alone or bench top treating station. To ensure proper Plasma Discharge from the Discharge Nozzle the compressed air must be within a certain level of pressure and volume. Eltech's Vortex Plasma conforms with CE regulations and is CE marked.



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.

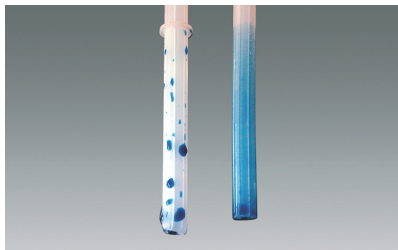
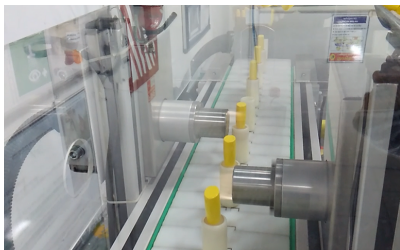
Eltech's Vortex Plasma Treatment system readily solve surface adhesion problems for a wide variety of products and applications:

- 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



Features

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



Technical Specifications :

Treating head : Max 70 mm
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

Certificates

Certificate of Compliance

This is to Certify that the following designated products :

Corona Treater, Lab Corona Treater, Sheet Corona Treater, Plasma Ion Treatment, Plasma ARC Treatment, Plasma Vortex Treatment, Induction Cap Sealer, Static Eliminator, Ionizing Air Gun, Ionizing Air Nozzle, Ionizing Air Blower, Static Charger, Static Charge Meter and Silicone Items.

Manufactured By
ELTECH ENGINEERS PRIVATE LIMITED
A - 108, Diamond Industrial Estate, Ketkipada Road, Near Toll Plaza, Off. Western Express Highway, Dahisar (East), Mumbai - 400068, Maharashtra, India

Conforms with the Applicable requirements of
Medical Device Directive MDD (93/42/EEC)

CERTIFICATE NO. : 192MZG0053C

ISSUED DATE : 02/07/2019
EXPIRY DATE : 01/07/2022

1ST SURVEILLANCE : 01/06/2020
2ND SURVEILLANCE : 01/06/2021

Managing Director

For BMG Conformity Assessment Services Pvt. Ltd.
© 2019, 2nd Floor, Sector 10, Gurgaon (Haryana) India
This Certificate is Intellectual Property of BMG and shall be maintained through surveillance and renewal audits.
Certification is subject to BMG's control of compliance with applicable standards and regulatory requirements.
Authority & Status of this certificate can be verified at <http://www.bmgcertification.com> or www.bmgcertification.com

QUALITY CERTIFICATION



Certificate of Compliance

This is to Certify that the following designated products :

Corona Treater, Lab Corona Treater, Sheet Corona Treater, Plasma Ion Treatment, Plasma Arc Treatment, Plasma Vortex Treatment, Induction Cap Sealer, Static Eliminator, Ionizing Air Gun, Ionizing Air Nozzle, Ionizing Air Blower, Static Charger, Static Charge Meter and Silicone Items.

This certificate of compliance is based on the technical file of above mention products

Manufactured By :
M/S. ELTECH ENGINEERS PVT.LTD.
A-108, Diamond Industrial Estate, Ketkipada Road, Near Toll Naka Off. W. E. Highway, Dahisar (East), Mumbai - 400068, Maharashtra, India

International Quality
Application of Council Directive on the Restriction of the use of certain Hazardous Substances in Electrical and Electronic Equipment 2011/65/EU

CERTIFICATE NO. : 192MZG02176R

ISSUED DATE : 04/07/2019
EXPIRY DATE : 03/07/2022

1ST SURVEILLANCE : 03/07/2020
2ND SURVEILLANCE : 03/07/2021



Authorized Signatory
INTERNATIONAL QUALITY CERTIFICATION SERVICES UK LTD
272, Bath Street, Glasgow, G2 4JR, UK
This Certificate is Intellectual Property of IQCS and can only be maintained through surveillance and renewal audits.
Certification is subject to IQCS's control of compliance with applicable standards and regulatory requirements.
Authority & Status of this certificate can be verified at www.iqcs.co.uk or www.iqcs.co.uk





Eltech Engineers Pvt Ltd

A-108, Diamond Ind Estate, Ketkipada Road, Nr.Toll Naka, Off W. E.Highway, Dahisar (East), Mumbai-400068. Tel : 022-2897 2424 / 2626 Email : rajesh@eltech.in Mobile : 9867222298