



**ELTECH
ENGINEERS PVT LTD**



CORONA TREATERS

Eltech Engineers Pvt Ltd, established in 1992 is an ISO 9001:2015 certified Indian company, is the leading manufacturers, exporter, and supplier of Corona Treater in India. We design and manufacture corona discharge surface treatment equipment for narrow web, wide web, sheet, and 3d applications for films, foil, woven sack, paper, textile, and three-dimensional plastic parts, etc.

Our clients always look up to us for their different requirements because of our high-quality standards, superior performance, zero defect products, timely deliveries, and very reasonable prices.

Eltech is the leading solution provider for any type of Corona Discharge Treatment problem in India. We have a wide range of products like Sheet Corona Treater, Woven Sacks Corona Treater, Label Corona Treater, etc. We are also capable of providing solutions for any kind of treating problem for plastic films & different varieties of complex laminates corona treaters from 1 KW to 10 KW.



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We treat anything...

Since 1992

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YEARS
OF EXCELLENCE IN | CORONA
PLASMA
STATIC

WORKFORCE & INFRASTRUCTURE

We are based in Mumbai (Maharashtra), India, with world-class manufacturing facilities. The unit is equipped with all the latest machines and technology to produce products of international standards. Utilizing our sophisticated infrastructural facilities, we are capable to offer innovative and high-quality solutions and products to give our clients a competitive edge in the marketplace. Our workforce is a team of highly skilled and experienced professionals, who are committed to exceed customer expectations at every point of service. The team has also developed expertise in producing products, which can match individual customer needs and requirements.



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WHY IS SURFACE TREATMENT NEEDED?

Generally, plastics have chemically inert and nonporous surfaces with low surface tensions causing them to be non receptive to bonding with Corona treatment is the method most widely used to ensure adhesion on Surface treatment is required for plastic films/fabrics whose normal surface tension is not sufficiently high to permit good wetting by flexographic inks.

Corona treatment increases the surface tension of the fabrics receptive to inks by inducing molecular changes in the surface of the films.

The equipment consists of mainly Transformer, Electrodes, Silicon rollers, and free rollers which are enclosed in a properly made casing Corona is generated by applying a high frequency, high voltage signal to an electrode.

The fabric is passed from free roller through the air gap between the multi-segmented electrode and the silicon roller which generates a continuous shower of ionized air called as The electrode and dielectric cover on the roller serves as the electric connection to the stream of ionized air in the air gap.



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OUR WIDE RANGE OF PRODUCTS

- Corona Treatment for Inside Surface Treatment of Container with Ozone
- Corona Treatment on Continuous PUF Panels
- Corona Treatment on Extrusion Coating Plant
- Corona Treatment on Lamination Film Plant
- Corona Treatment on Monolayer Film Plant
- Corona Treatment on Multilayer Film Plant
- Corona Treatment on Woven Sacks Printing Machine
- Corona Treatment on Batch Printing Machine
- Corona Treatment on Label Flexo Printing
- Corona Treatment on Dry Offset Printing Machine
- Corona Treatment on Metalized Film Plant
- Corona Treatment on PP Flute Board
- Corona Treatment on Round Bottles
- Corona Treatment on Sheets
- Laboratory Corona Treatment
- Laboratory Corona Treatment for Petri Dish
- Laboratory Corona Treatment for PP Caps
- Ozone Extraction Blower



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CORONA ACCESSORIES

- Corona Dynes Pen / Ink
- Ozone Destructor
- Silicone Sleeve for Corona Treater
- HV Cables for Corona Treater
- Ceramic Electrode for Corona Treater

WHERE CAN WE USE CORONA TREATMENT

- Blown film extrusion single layer / multi layer plastic film plants
- Woven sack roll on-line flexo printing machine
- Extrusion / Lamination coating plant for paper
- Lamination plant for aluminium foil / plastic film
- PVDC coating on pvc film for pharmaceutical applications
- Sheet line plant
- Gum coating on PTFE coated fibre glass cloth
- Plastic molded articles
- Laboratory corona treatment
- Inside treatment of containers (insulated box)



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CORONA TREATMENT FOR LABEL FLEXO

The new generation label press demands compact and efficient corona treatment system for treatment of variety of substrates at high line speeds. Eltech Label Flexo type Corona Treating Station is specially designed keeping the compactness, operator friendliness and efficient in mind. The high definition ridge type ceramic electrodes ensure efficient treatment of metalized as well as non - metalized substrates.



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CORONA TREATMENT FOR WOVEN SACKS PRINTING MACHINE

Corona treatment for woven sacks-PP/HDPE Woven sacks fabrics has to be corona treated before printing on flexographic printing machine.

Corona treater for woven fabrics-Corona treatment system is a very effective way to increase the surface tension of virtually any material. Surface treatment is required for plastic films/fabrics whose normal surface tension is not sufficiently high to permit good wetting by flexo graphic inks.



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CORONA TREATMENT FOR BATCH PRINTING MACHINE

Plastic pouch roll require batch printing and price printing before material filling in pouch, pouch roll has to be treated before printing for better adhesion of ink, corona treatment alters the surface of the film and increases Dynes value. More receptive of inks better bonding, long lasting Printing.

Our technology is uniquely designed to treat 2-dimensional films, as well as many other applications requiring Improved surface energy and long-lasting activation.



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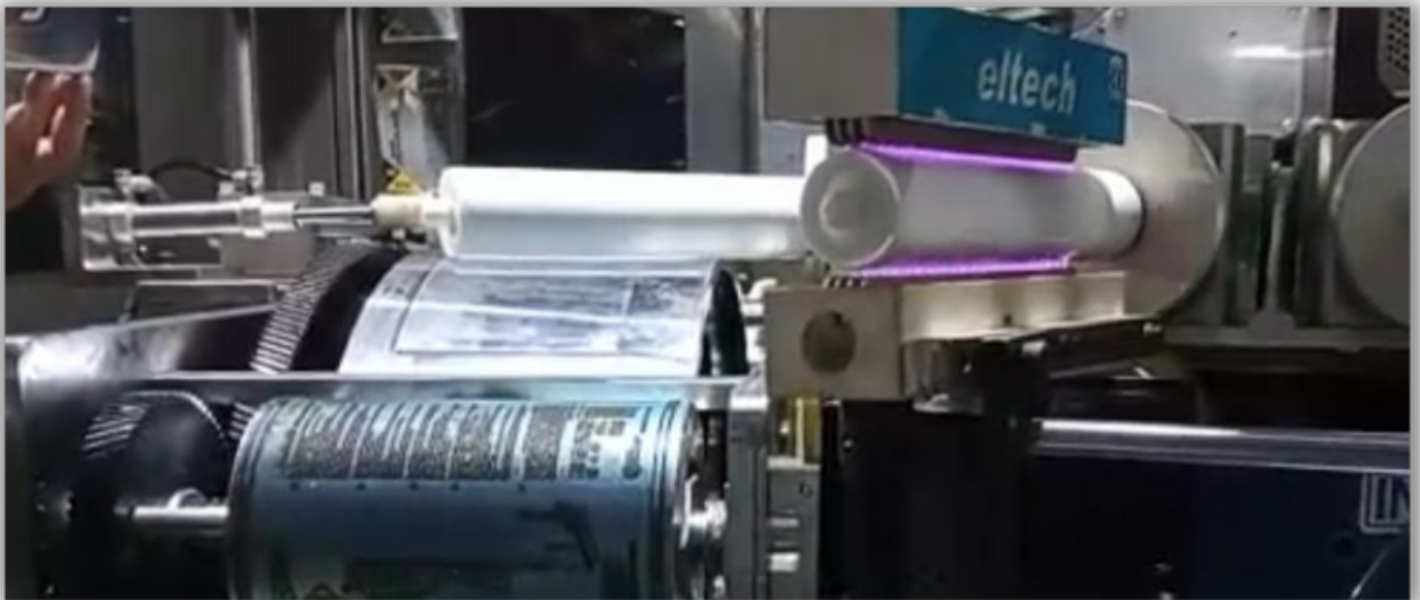
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CORONA TREATMENT FOR DRY OFFSET PRINTING MACHINE

In the dry offset printing method, the ink is first transferred to a photopolymer relief plate with a metal backing before being applied to the substrate.

You may print in great quality while spending less money if you use the dry offset printing technique.

Dry offset printing may be used to print on stiff, moulded things like flowerpots, buckets, mugs, and other similar items.



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INSIDE SURFACE TREATMENT OF CONTAINER WITH OZONE

Rotationally moulded insulated boxes, containers, and tubs with inside eltech ozone surface treatment offer optimal adhesion between plastic surface and PU. Sandwich construction refers to products that include foam on the inside and fibreglass on the exterior. In order to treat the interior plastic walls of small boats, insulated plastic cooler boxes, insulated fish cooler boxes, insulated surfboats, etc., Eltech developed a surface treatment system.



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CORONA TREATMENT ON CONTINUOUS PUF PANELS

In the construction industry, PUF sandwich panels are composite structures with exceptional thermal and acoustic insulation properties. Polyurethane foam, pre-coated GI sheet (PPGI), stainless steel (SS), cement fibre board, or ACP are all acceptable materials for the board's insulating core. The insulating core may occasionally be PUF. In one continuous process, the Continuous Line Panel Production method incorporates all steps from producing sheet metal profiles required for both faces, panel to panel connecting profile detail, foaming, panel forming, curing, and final product cutting to length.



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CORONA TREATMENT ON EXTRUSION COATING PLANT

Corona treater on blown film or cast film extrusion lines is essential in order to obtain a perfect surface tension prior to the following converting process. Without pretreatment the extruded substrates will not allow further converting processes due to low surface tension. Any material's surface tension may be effectively raised using the corona treatment technique. For textiles whose natural surface tension is insufficient to allow for adequate wetting, surface treatment is necessary; corona treatment promotes bonding. Corona treaters are used by film extruders to boost a film's surface energy during extrusion. This pretreatment procedure makes it possible for printers, coaters, and laminators to later convert the film.



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CORONA TREATMENT ON LAMINATION FILM PLANT

Corona treater on blown film or cast film is essential in order to obtain a perfect surface tension prior to the following converting process. Without pretreatment the extruded substrates will not allow further converting processes due to low surface tension.

Surface tension can be increased on almost any material using the corona treatment system. For woven textiles whose natural surface tension is insufficient to allow for adequate wetting, surface treatment is necessary; corona treatment promotes bonding. Corona treaters are used by film extruders to boost a film's surface energy during extrusion.



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CORONA TREATMENT ON MONOLAYER FILM PLANT

Eltech manufactures best quality corona treater for monolayer film plant extruder and this film is formed by mixing polypropylene or polyethylene (structural material) with vinyl-acetate or methacrylate (printable material). This forms the unitary mixture. Then the mixture is extruded and heated.



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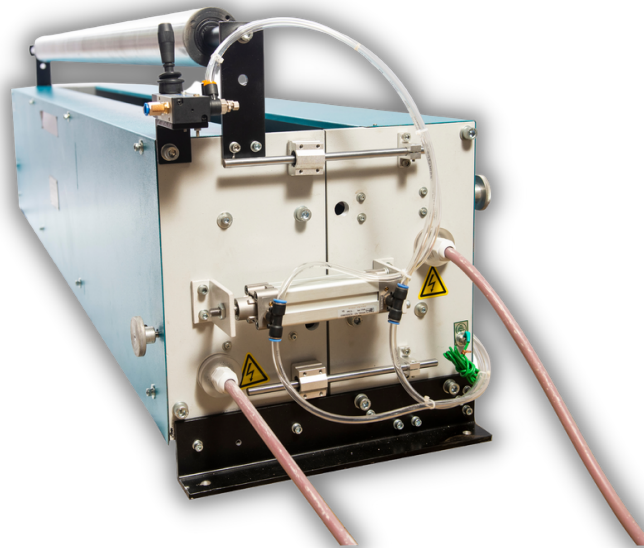
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CORONA TREATMENT ON MULTILAYER FILM PLANT

Corona treatment system is a very effective way to increase the surface tension of virtually any material. Surface treatment is required for plastic films/fabrics whose normal surface tension is not sufficiently high to permit good wetting by flexo graphic inks.



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CORONA TREATMENT ON METALIZED FILM PLANT

To achieve a brilliant blemish-free metallization coating, raw substrates must be free of surface contamination, such as migrating additives, dirt, dust, and other contaminants. Surface treatment can effectively removes organic debris from the surfaces of packaging materials such as films to retain their metallization layer and provide barrier properties at designed and acceptable level.

Corona treatment system increases the surface tension of any material respective to inks by inducing molecular changes in the surface of the material. This is done by exposing the air at the material's surface to a high-voltage electrical discharge - Corona.



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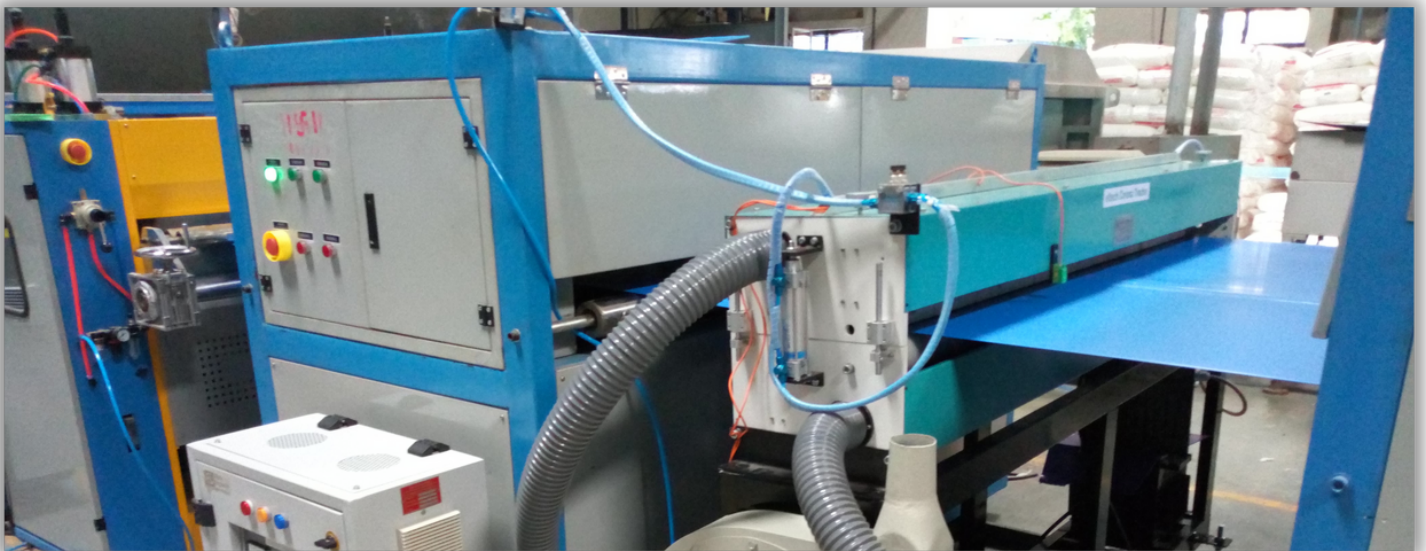
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CORONA TREATMENT ON PP FLUTE BOARD

Eltech manufactures and exports Corona surface treatment machine for pp flute board for better printing in Mumbai India.

PP Flute board have a longer life of endurance and durability. these PP Flute Boards are astoundingly strong having twin wall chambers that enhances their strength to withstand air pressure, forceful water tripping and stormy conditions.

PP Flute sheet is the preferred material choice across multiple industries for its lightweight structure and competitive pricing and is widely recognized as being a far more durable alternative to corrugated sheet box, low weight than metal and both chemical and water resistant and affordable too because it is recyclable.



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CORONA TREATMENT ON ROUND BOTTLES

We are offering a precision- engineered collection of Round Bottle Treatment in Corona Treater and these machines are popular amongst our clients for durability and high efficiency.

Utilizing corona treatment, we set new standard for surface treatment technology and it is possible to perform corona treatment PET, PP, PE cylindrical containers in printing, labeling, molding and filling production line.



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CORONA TREATMENT ON SHEETS

Eltech sheet corona treater is widely used to treat PP, PVC and metallised polyester laminated sheets to increase surface tension and gives better printing and adhesion. Water-based and UV inks printed on plastic films and other substrates create a need for the substrate to be treated prior to printing.

PVC, PP, LD, Foam, Flex, metallized polyester, PE, OPP and other high-low density plastic materials should particularly be Corona treated to enhance the quality of the final product.



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LABORATORY CORONA TREATER

Corona treating is a very effective way to increase the surface tension of virtually any material. When properly applied to your substrate, corona treating produces the higher surface dyne levels needed for good adhesion even on the more difficult-to-treat materials like polypropylene and polyethylene.

The device comprises a semi-conductor generator with an integrated transformer for high-voltage generation, the hand roll electrode (standard working width 200mm), the earthed ground plate power cable and a hand or foot-operated switch for the activation of the Corona discharge. The output (intensity of the Corona discharge) can be adjusted at a potentiometer and read off a display.



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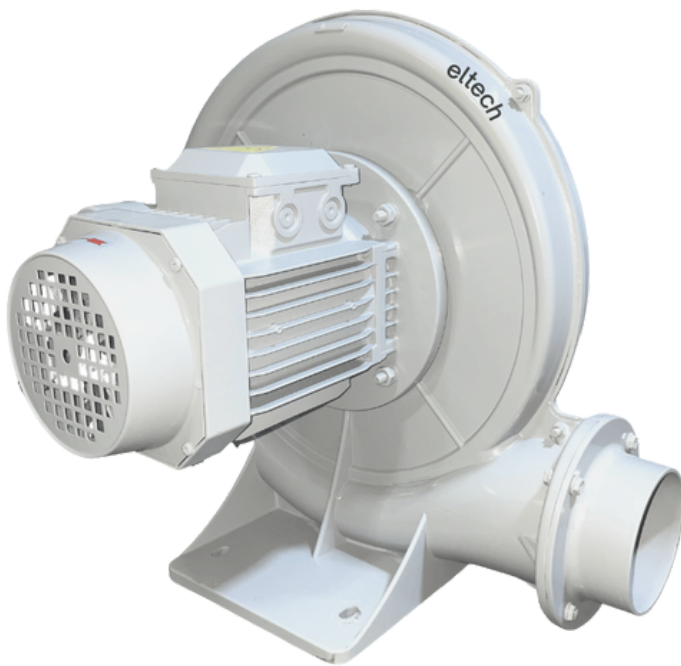
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OZONE EXTRACTION BLOWER

Eltech features a full line of Ozone Extraction blower efficiently removes ozone and cools electrode and silicone sleeves. An ozone Extractor Blower is a necessary a part of each Corona treatment system.

The ozone Extractor Blower has two vital functions. initial of all it removes the ozone that's created within the Corona treatment process. second it's a cooling effect on the electrode and also the backing roller within the Corona treater.



**MODELS
AVAILABLE**

1 H.P

2 H.P

3 H.P



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CORONA TREATER ACCESSORIES



Surface Measurement Pen



H.V Silicone Wire



Dynes Ink



Ozone Destructor



Corona Treater Silicone Sleeve



Ozone Extraction Blower



Round Ceramic Electrode



Square Ceramic Electrode



Eltech Engineers Private Limited

(An ISO 9001 : 2015 Certified Company) CIN : U31909MH2019PTC323408

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Manufacturer's of : Corona Treaters, Plasma Treaters, Vacuum Plasma Cleaners, Static Eliminators, Ionizers, Induction Cap Sealers

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