

CORONA TREATMENT FOR METALIZED FILM



EL-COROMET



**ELTECH
ENGINEERS PVT LTD**

We treat anything...

Since 1992

30
YEARS
OF EXCELLENCE IN CORONA
PLASMA
STATIC

CORONA TREATMENT FOR METALIZED FILM

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.

Eltech Corona treater system creates powerful bonding for printing, painting, coating, laminating and adhesion applications. Our technology is uniquely designed to treat 2-dimensional films, as well as many other applications requiring Improved surface energy and long-lasting activation.

The Corona treatment system is a very effective way to increase the surface tension of virtually any material. Surface treatment is required for conductive as well as non-conductive material whose normal surface tension is not sufficiently high to permit good wettability.

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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Technical Specifications

- Input Supply : 415 V AC , $\pm 5\%$, 3 Phase,4 -Wire
- Treatment Size : 600-2400 mm
- Line Speed : 0-80 mtr/minute
- Material : Non Conductive & Conductive
- Treating Sides : Single / Double
- Input Frequency : 50 Hz
- Output Frequency : 20-50 KHZ
- Approx Output Power (KW) : 2 KW - 5 KW
- Maximum Temperature : 0 ~ 50 Degree celsius
- Blower : 1 H.P
- Treatment Electrode : Insulated Silicone Roller
- Dynes Level : 38-48 Dynes/cm
- Length of HV Cable : 2.5 Mtr
- Corona Output : Ultra high frequency using latest IGBT technology, Constant at same speed, No influence of supply voltage, Accurate output power.
- Certifications : CE , RoHs , ISO



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Features

- Ultra High Frequency using the latest IGBT technology.
- Indication of Corona Current.
- Balanced rollers.
- Corona Treater rollers covered with high dielectric grade sleeve.
- Prevent premature failure of roller bearing by having a proper grounding system.
- Pneumatic Operated Corona Treatment Station for material feeding.
- Even Suction throughout the treatment station helps to extract Ozone efficiently.
- Cooling provided by the Blower prevents wrapping of electrodes and helps to achieve a Consistent Treatment Level.
- Using Forced Convection inside the panel prevents overheating of Electronic Components.
- Providing a Proximity Sensor for detecting Zero Speed which automatically shuts down the power supply when the web achieves low line speed.
- Oil Cooled Transformer for better stability at high temperatures and has excellent electrical insulating properties.
- Easy view window for a clear view of Corona Discharge.

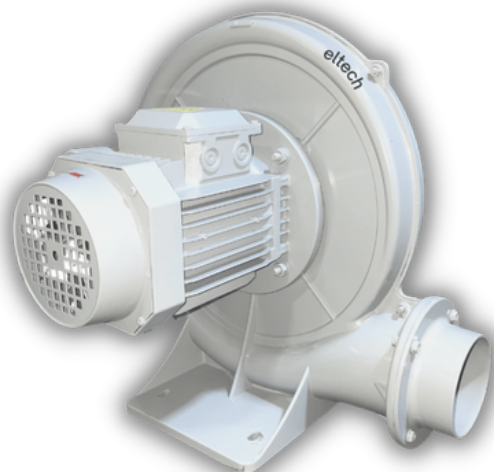
Electronic Protection Features

- Door Open
- MCB protection
- Single Phasing
- Audio/Visual Alarm
- Electronic Overload Trip
- Thermal trip for heatsink
- Under voltage / Over voltage
- Ozone extraction overload trip

Benefits

- Soft start
- Easy to Install
- Easy to maintain
- Customized Design
- Maximum Operator safety
- Compact Simple Construction
- Cost Efficient Treatment Process
- Forced cooled convertor for longer life
- Ultra high frequency using latest IGBT technology

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