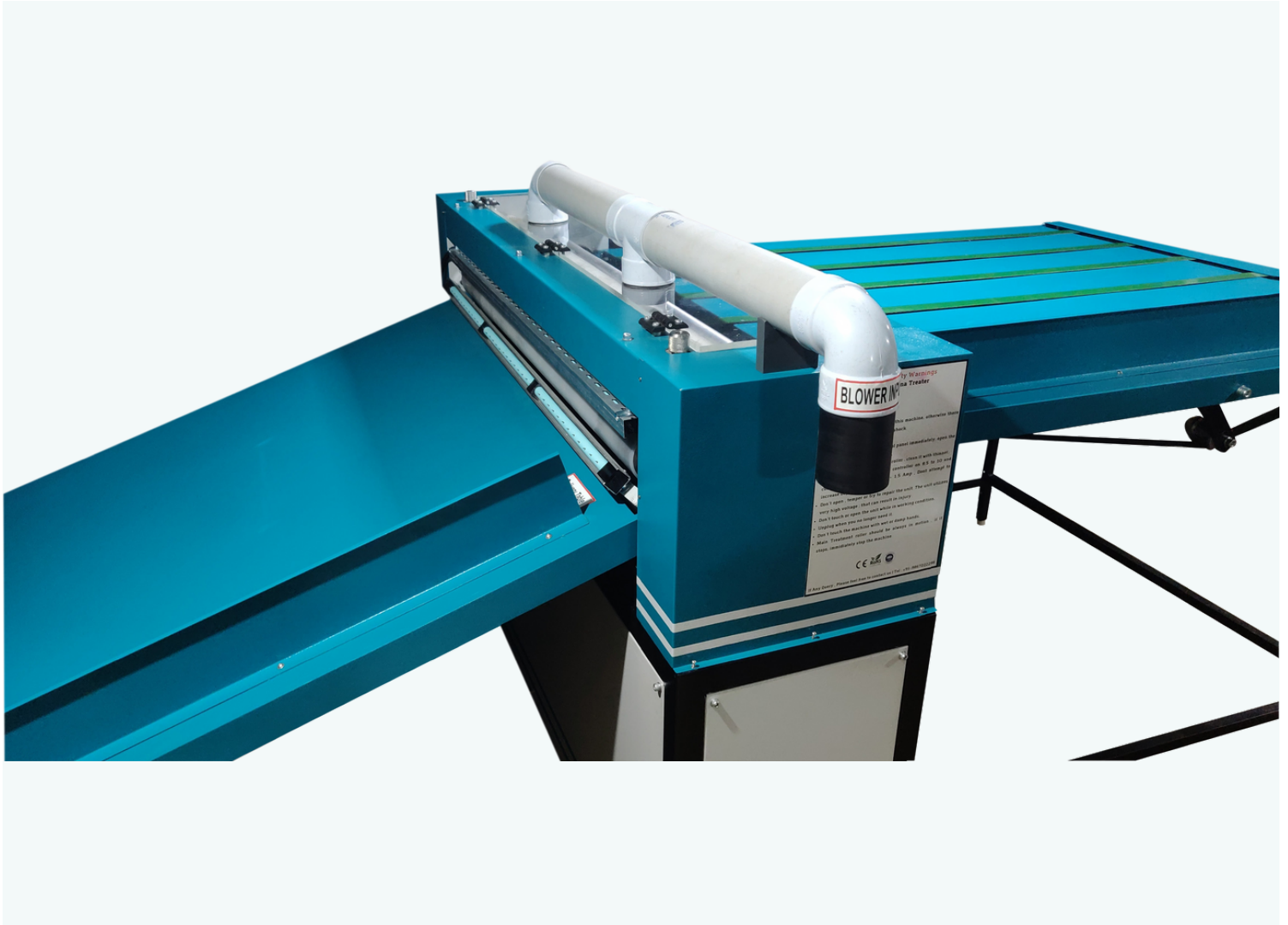


# CORONA TREATMENT FOR SHEETS



## EL-COROSHEET



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# CORONA TREATMENT FOR 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.

Conventional method of roll to roll treatment is standard practice, but in Offset, Sheet corona treatment is required to increase surface tension or improve the printability. Some substrates are corona-treated when they are manufactured. Many of these substrates require a surface energy boost to match a particular ink or coating. This is done with corona pretreaters on the press just prior to the coating application point.

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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## Technical Specifications

- Input Supply : 415 V AC ,  $\pm 5\%$  , 3 Phase,4 -Wire
- Treatment Size : 600-2000 mm
- Line Speed : 30-40 sheets/minute
- Material : Non Conductive & Conductive
- Treating Sides : Single
- Input Frequency : 50 Hz
- Output Frequency : 20-50 KHZ
- Approx Output Power ( KW ) : 2 KW - 4 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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