CORONA TREATMENT *for*
CONVERTING

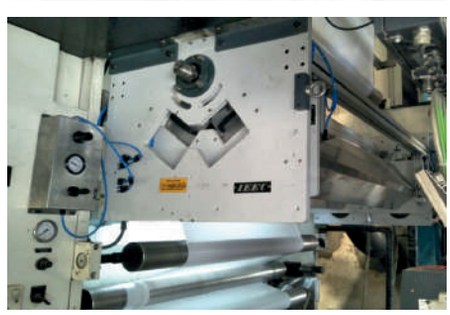
IEEC

50 YEARS OF EXCELLENCE IN CORONA PLASMA OZONE

CORONA TREATMENT *for* CONVERTING

In order to ensure bonding as well as Lamination and Printing on any plastic material for the purpose of converting, Corona Treatment is a must. The Treated film gives a better result for Lamination and Printing. IEEC Corona Treaters are specifically designed for the converting industries. They come in various sizes according to the customer's requirement and on the basis of machineries on which the same is to be installed. The film treated on IEEC Corona Treater helps the customer in producing long lasting quality print and lamination. IEEC Corona Treater can be used for treating low dyne level as well as boosting the already treated material in respect of printing ink, lacquering, bonding etc.

Our Specially designed power supplies ensure fast Ramp Up and Ramp Down of Corona power thereby synchronizing with the line speeds of the machines.



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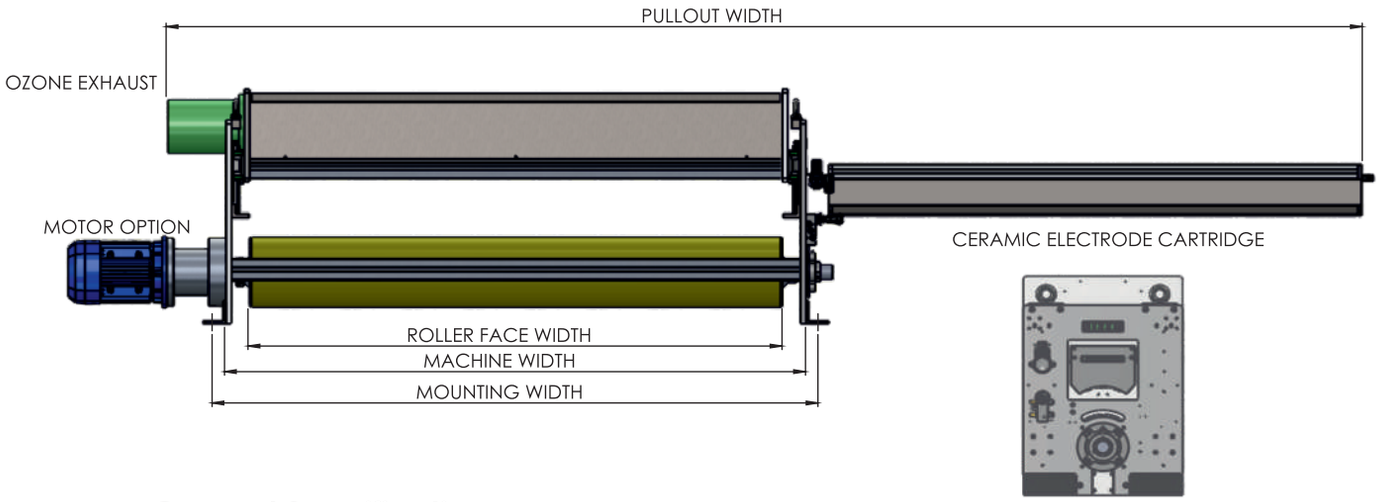
OUR TREATING STATIONS FOR CONVERTING

50 YEARS OF EXCELLENCE IN CORONA PLASMA OZONE

TECHNICAL SPECIFICATIONS



General Specifications

Web Widths	750-2000 mm
Speeds	upto 650 mpm
Sides for Treatment	1 or 2
Electrodes	Ceramic
Roller Covering	Aluminium, Silicon or Ceramic
Roller Diameter	Ø150-500 mm

Technical Specifications

Treatment Width	Roller Width	Mounting Width	Pullout Width
1000 mm	1150 mm	1352	2432
1350 mm	1500 mm	1702	3132
1600 mm	1750 mm	1952	3632

Roller Diameter	Number of Heads	Number of Electrodes
150 mm	1	3
200 mm	1	4
200 mm	2	6
270 mm	2	8

**Specific width available on request*

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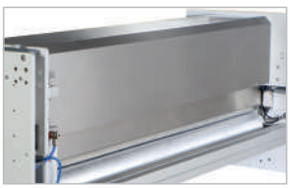
FEATURES ADVANTAGES

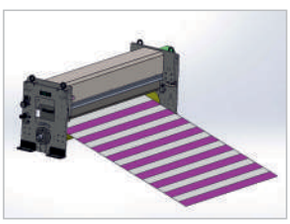
Easy Pullout Electrode Head :

The Electrodes are placed in an easily removable Push Pull Magazine. This ensures easy cleaning and maintenance of electrodes thereby providing reduced maintenance cost and increased productivity.



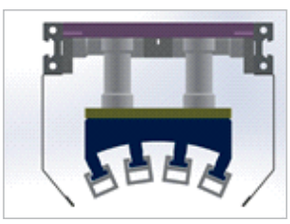
Stainless Steel Electrode Shrouds :

During high humidity conditions due to negative pressure there is moisture contamination inside the electrode head. Our corrosion resistant Stainless Steel Electrode Guards ensure that there is no premature arcing inside the duct due to moisture formation.



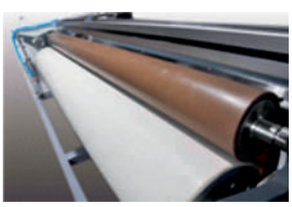
Skip Treatment

An optional intermittent corona treatment can be offered for printing lines. This allows to leave the welding points untreated and can be done at high line speeds.



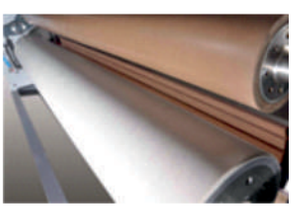
T-Slot Electrodes :

Our specially designed Ridge profile electrodes make the electrode mounting mechanism extremely simple and robust. It also eliminates the usage of multiple insulating holding elements. The only insulating material used is the Robust Ceramic insulator which makes the system very easy to clean. Also individual replacement of electrodes is an easy process.



Nip Roller :

An optional arrangement of nip roller can be offered with actuation mechanism to avoid the undesirable back-side treatment of the films for high speed application.



Ceramic Coated Roller :

An optional Ceramic coated roller can be offered to treat difficult substrates effectively at higher line speeds. Also the life of the roller can be increased against the ozone reaction.

Precise Air Gap Adjustment :

Precise air gap adjustment can be done to achieve uniform air gap across the width of the substrate to ensure effective treatment of the web. This is done inline without the machine stoppage.

Driven Roller Arrangement :

An optional direct drive can be offered to synchronize the treater roller speed with the machine line speed. This helps in efficient treatment of thin films at higher line speeds.

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OUR RFG SERIES CORONA GENERATORS

Our ultra high efficiency digital corona generators are designed to deliver consistent performance with minimalistic operator intervention.

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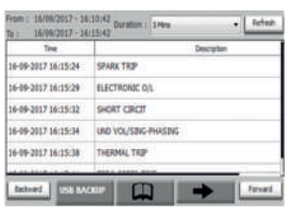
FEATURES ADVANTAGES

Touch Screen HMI :

Operator friendly HMI offers easy access to the Corona System Controls. It offers variety of controls such as, Down Time analysis, Total ON time of the system, Auto Watt Density control, Auto frequency tuning.

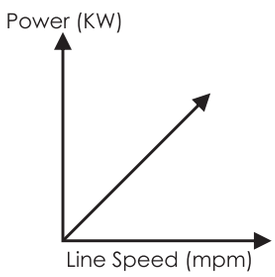
Graphical Trends :

An operator can monitor the overall performance of the system graphically by comparing the vital parameters like current, voltage, power etc at various time intervals.



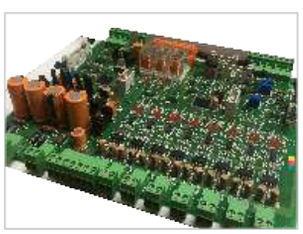
Production Log :

A realtime production log is recorded in the system by which the operator can analyze and record the output production. This helps in recording the shift/batchwise performance of the corona system which can also be extracted on a USB drive.



Proportional Watt Density Control

With this unique system the corona power provided to the electrode automatically adjusts itself proportional to the line speed. If the operator increases the line speed the corona power increases proportionally. As such, unit area of the substrate receives constant corona treatment irrespective of the line speed. Another interesting feature is variations in electrode gap, thickness of substrate and supply of voltage do not have any effect on the level of corona treatment.



Interface

IEEC corona generators can be easily integrated with the main operator console by addressing all important corona control parameters & diagnoses on the main control console.

Modular Construction

IEEC corona generators are manufactured for optimum efficiency. The important components are assembled in a modular form using minimalistic PCB's so that the servicing of the generator is simply done by plugging in a new part. The maintenance of the generator is very easy and can be attended within a shortest down time.

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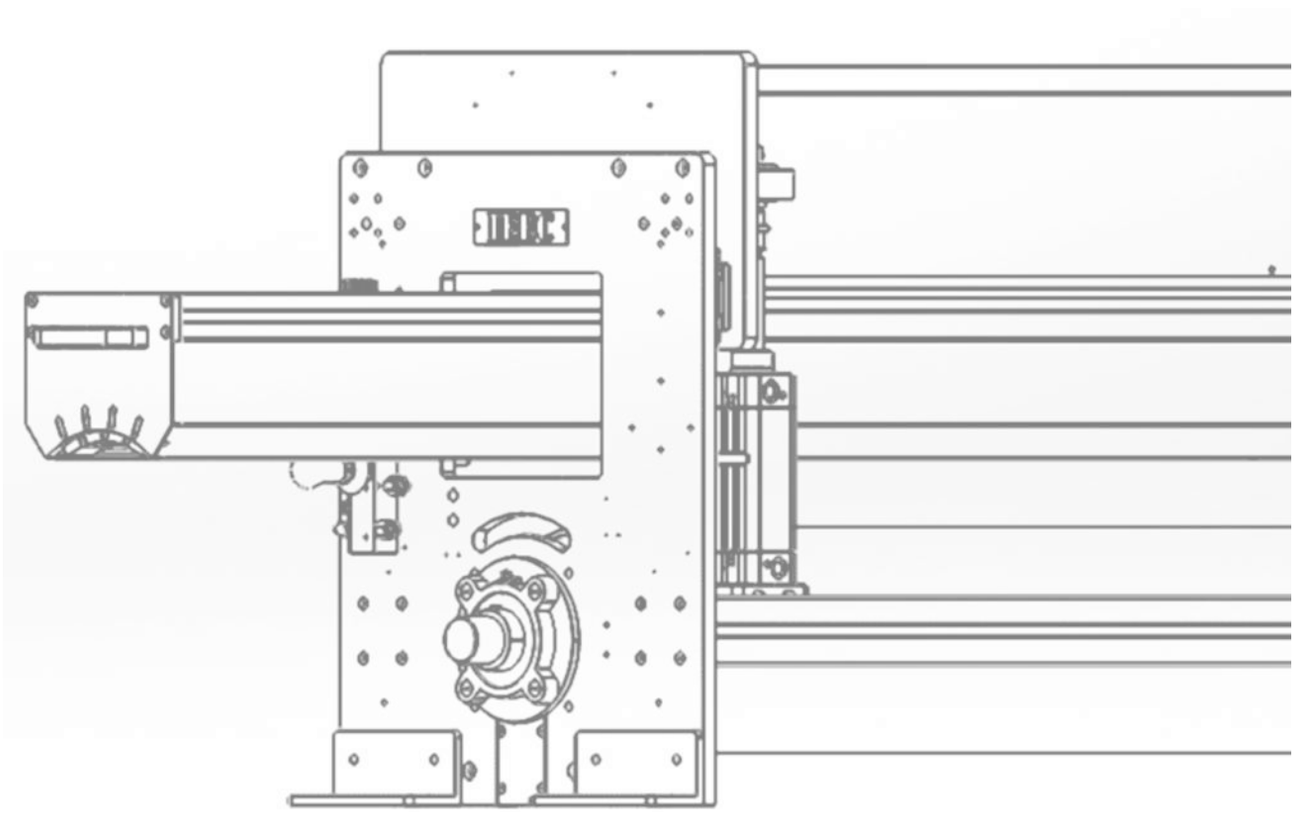

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MADE IN INDIA.