

# CORONA & PLASMA

FOR EXTRUSION



# Corona & Plasma for **EXTRUSION**

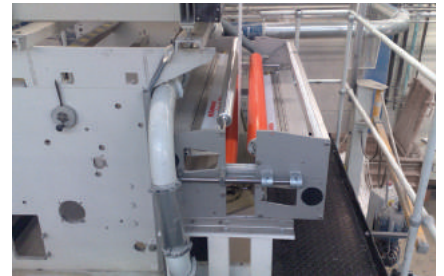
Corona treatment on any blown or cast film extrusion line is essential to successful downstream converting processes, because without pretreatment, the surface tension of the extruded substrate will be too low.

As a film manufacturer, you know how important reliable performance is to a smooth-running non-stop production line and the impact this has on the quality of the final product. That is why Vetaphone corona treaters are designed to meet the specific requirements of each individual customer and provide solutions to the individual challenges they face. The result is maximum production efficiency with uniform dyne levels.

All Vetaphone corona treaters installed on extrusion lines provide high dyne levels across a variety of materials because of the combination of ultra-efficient generators and the superior design of the treatment station.

Our advanced electrode design eliminates fluctuations in dyne levels across the web width and guarantees no undesired treatment of the reverse side.

The Vetaphone treater stations all feature our unique 'Quick Change' system that allows the operator to perform segment set-up and maintenance in minutes – this provides maximum production time for your extrusion line.

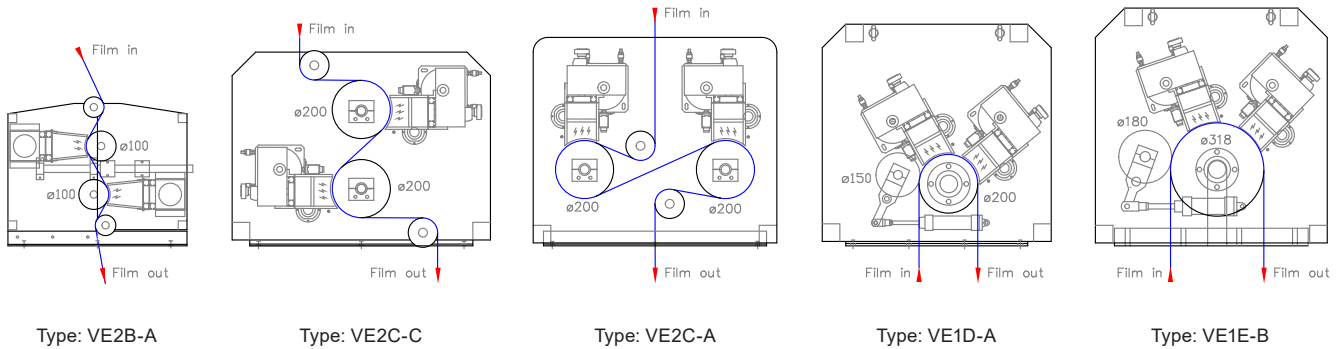
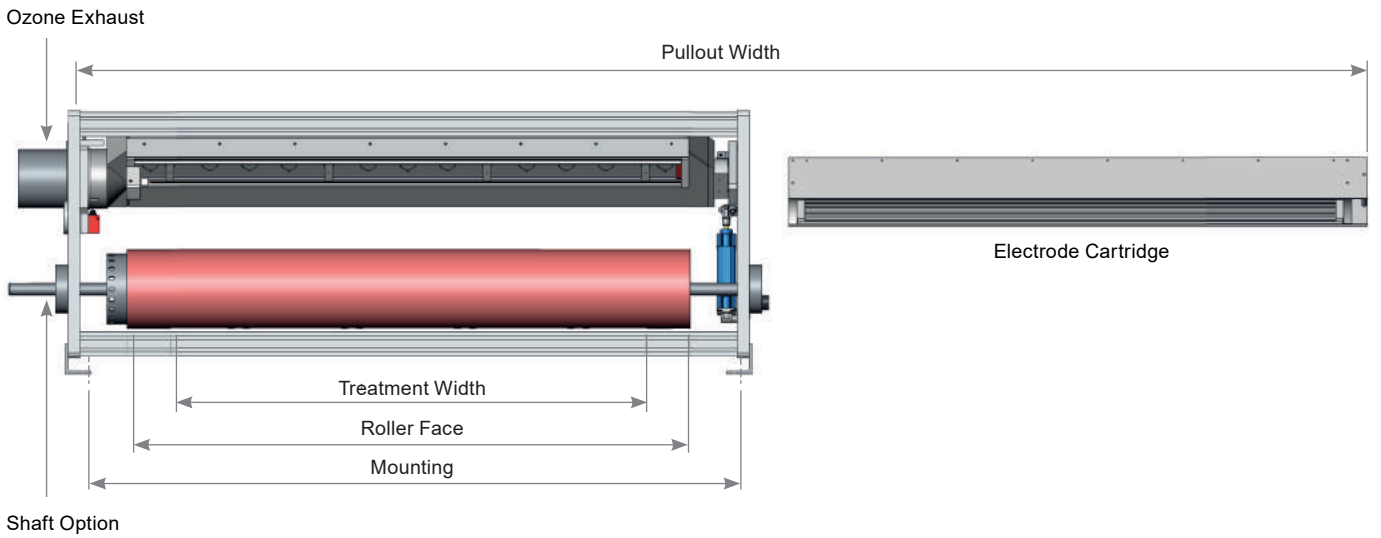


Corona treatment = perfect adhesion



No Corona treatment = low adhesion

# Specifications



## Specifications

Widths	1.000-10.000 mm / 40-400 inches
Speeds	1-800 m/min / 1-2.600 f/min
Sides for treatment	1, 2 or 4
Electrodes	Aluminium or Stainless Steel
Roller covering	Silicone, Vulcanized Rubber or Ceramic
Roller diameter	ø100-500 mm / ø4-20 inches
Types of extrusion	Blown, Cast and Stretch

## Standard Treatment Width

1000 mm / 39 inches
1300 mm / 51 inches
1400 mm / 55 inches
1800 mm / 71 inches
2200 mm / 87 inches
2600 mm / 102 inches
3000 mm / 118 inches

Other sizes available upon request

# Our Corona Stations for **EXTRUSION**

Our Corona stations are designed for easy operation and high efficiency.  
Let our systems give you the best Corona treatment the easiest way.



Type: VE2B-A



Type: VE2C-A



Type: VE1E-B

## Complete Range of Stations

We offer a full range of stations for extrusion, including single- and double-sided, and blown and cast film lines.

Equipped with Electrical Components



Scan this QR Code and check out our video presentation

# FEATURES

# BENEFITS



## Quick Change Cartridge

To facilitate maintenance, each treater is fitted with an operator-friendly Quick Change Cartridge (QC) as standard. This patented design reduces maintenance time and boosts production efficiency.



## Segmented Electrodes

Vetaphone corona treaters can be equipped with 5mm or 10 mm segmented electrodes. The segments are locked in both 'working' and 'off' positions, making them the perfect choice for frequent width and pattern changing.



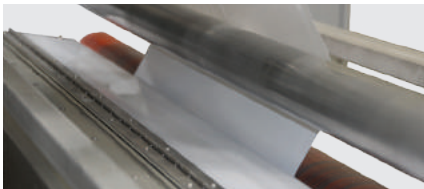
## Easy Cleaning & Maintenance

All parts of the system are designed for quick and easy cleaning and maintenance to reduce stoppages and increase production time. The Quick Change cartridge can be easily removed offline for easy access when cleaning the electrodes or setting up the segmented electrodes for partial treatment.



## High Humidity Resistant

Vetaphone corona treaters are designed for operation under conditions of high humidity and are fitted with high quality insulators and optimum airflow extraction.



## Film Inlet from Top of Station

The station design enables easy webbing of the film from the top with no need for additional external guide rollers. The pneumatic opening of the corona electrodes creates space for quick webbing up of the film.



## Air Gap Adjustment

The calibrated electrode air gap adjustment, with a digital read-out, ensures precise and uniform treatment of wide webs by guaranteeing a consistent gap between the film and the electrodes.



## Easy Backing Roller Removal

All Vetaphone Corona treaters are designed for easy removal of the backing roller, so that in the event of a silicone sleeve breakage, downtime to change the sleeve is minimised.



## Water Cooling and NIP Options

A NIP roller is intended for use at speeds above 350m/min or when web tension is low. The roller adds pressure to the material passing through the corona treater station and prevents pin holes or reverse side treatment. A useful option for high-speed lines is the facility to cool the backing roller with water or air.

# Our iCorona **GENERATORS**

Our series of intelligent iCorona generators, are designed to take control of the corona treatment, allowing you to focus on your core business.



## Complete Series

Our iCorona intelligent generator series offer outputs from 1-48 kW all based on one single generator cabinet.

UL listed version available



Scan this QR Code and check our product presentation

# FEATURES

# BENEFITS



## Touch Control Panel

Our user-friendly 7" LCD touch control panel for the iCorona generator provides a graphic overview of the entire corona system. This intuitive display provides automatic and intelligent control of variables like substrate matching, production trend screen, and proportional control. Individual control for each side of the film is also available on one panel as an optional feature.



## Trend Screen

The trend feature collects production data, including power data (Watt), or density data ( $W \cdot \text{min}/\text{m}^2$ ), and has the facility to recall historical data. The most recent 24-hours of data is guaranteed because it is logged at 1-minute intervals, and when the limit is reached, it deletes the oldest data entries first. In multiple generator variants, the data is compared to ensure production is running as intended.



## Substrate Matching

The power to the electrodes is maintained at the highest level possible because of our patented feedback system. This provides a total equipment efficiency of at least 95 %, even during changes of substrate or additive.



## Proportional Control

The iCorona generators are all equipped with proportional control related to power and line speed to ensure a constant watt density. Optionally, the control panel can display either the actual generator power output in kW, or the energy delivered to the substrate in  $W \cdot \text{min}/\text{m}^2$  or  $W \cdot \text{min}/\text{ft}^2$ .



## Interface

The field bus communication interfaces are used to integrate the corona system into the complete process control making it easier for operators to understand and manage the production line. All the key parameters of corona treatment and production data can be viewed graphically on the operator's main panel.



## Module Built

iCorona generators are manufactured for optimum efficiency. All the important electronic components are built into one easily accessible module. So, servicing the generator is simple and involves only one part, the module. Changing the complete module is quick and will ensure the generator works smoothly and for a longer period, as all vital parts are updated to the latest technology.

## Satisfied Customers

# WORLD WIDE

“ The Vetaphone Corona treaters virtually never break. They just go on, 24-7, year after year. And if something is ever wrong, our own electricians can usually fix it. We never replace them because they break or wear out – we only change them when they are outpaced by the development. ”

Explains Head of Extrusion Department at Schur Flexible Alex Holst, Denmark.

“ We were attracted by the innovative design of the Vetaphone Corona treaters. The Quick Change system was interesting in terms of bringing down time used on maintenance and segment setting. At the same time, Vetaphone's module built generators and world-wide service organization should help us to service our customers quick and easy at any time and place. Vetaphone were therefore an interesting partner and an easy choice when it came to choosing a high quality corona treater. The machines' production efficiency and quality of the finished products has exceeded our expectations and can be considered as superb! ”

Explains Vice President at Kung Hsing Plastic Machinery Co. Ltd Mr. Kun-Lin Tsai, Taiwan.

[Read other customer statements on our website.](#)

[www.vetaphone.com](http://www.vetaphone.com)

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