



**VETAPHONE**

***INVENTIONS***  
*THAT LAST*

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



*The Vetaphone headquarters at Fabriksvej 11, Kolding, Denmark*

# **WELCOME TO VETAPHONE**

Proud of our pioneering history in surface treatment, the Vetaphone principle is all about building trust and partnerships with customers and supplying the knowhow, technology, and personal support to improve your businesses.

As leaders in the field of corona and plasma treatment, we invest in R&D so our technology and technicians are well prepared for the frequent changes that all sectors of printing and converting industries continue to experience.

We understand the need to constantly adapt and refine our products and services to bring cost and efficiency benefits to all of our customers.

Wherever you are in the world, we look forward to working with you and supporting you with your advanced surface treatment choices!



*Michael Behrens*  
Michael Behrens  
CEO



Corona

Corona treatment = *perfect adhesion*



NonCorona

No Corona treatment = *low adhesion*

## ***CORONA TREATMENT***

Corona treatment is a high frequency discharge that increases the surface energy of plastic films, foils, and paper to improve wettability and adhesion of inks, coatings, and adhesives.

The problem with writing or printing on plastic film is well known. You have a plastic bag that you would like to write on with a pen, but unfortunately the ink doesn't stick because the structure of the untreated plastic has poor adhesion, which makes it impossible. **Corona treatment solves this problem.**

## ***PLASMA TREATMENT***

Why Plasma? Unlike corona treatment which is carried out under normal uncontrolled atmospheric conditions, plasma treatment is carried out in a 100% controlled atmosphere.

Corona is still the most cost effective solution for improving adhesion 95% of all materials. However, the remaining 5% of materials pose a challenge for the industry to find an environmentally safe and inexpensive solution.

Plasma is more homogeneous and 'softer' than corona, with low heat impact to the surface that offers controlled and tuneable surface chemistry. It can be considered as a gas primer that effectively replaces corona treatment and liquid primer for special applications.

IMAGINE THE WORLD WITHOUT

# ***SURFACE ADHESION***



A close-up photograph of a corona treatment electrode assembly. The assembly consists of a series of metal rods with hexagonal bases, each topped with a threaded cap. A bright purple glow emanates from the base of the rods, indicating the corona discharge process. The background is a blurred industrial setting with a window.

*THE IMPORTANCE OF CORRECT*  
***SURFACE***  
***ADHESION***

The objective of polymer treatment is to increase the surface energy and subsequent wettability and adhesion for laminating, printing, and other converting processes. Our uniform corona treatment ensures perfect surface adhesion for perfect print quality.

# TREATMENT SYSTEMS



## **NARROW WEB**

The narrow web corona system, using ceramic electrodes, is designed for label converters that require no limitations with conductive or non-conductive substrates.



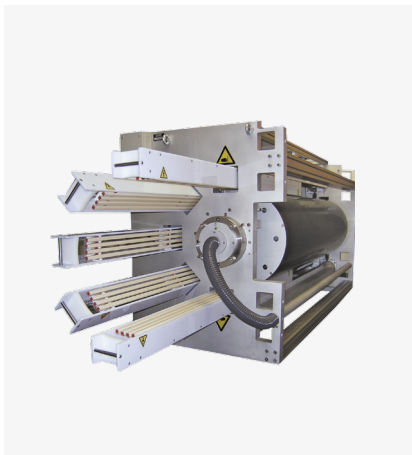
## **EXTRUSION**

The corona pre-treatment of extruded substrates ensures higher surface tension which is essential for further converting processes. Our treaters for extrusion lines produce higher dyne levels due to the ultra-efficient design of the generators and treatment stations.



## **CONVERTING**

The corona system for converting boosts the adhesive properties of pre-treated substrates to create a clean surface that is receptive to inks, glues, and lacquers.



## **COATING**

The corona system for coating offers high performance, production security, and ease of use. Metallised substrates can be treated at speeds of more than 450m/min without damage with our new DHP® system.



## **IPLASMA**

iPlasma is an advanced surface treatment technology. It uses a controlled atmosphere, and adds small quantities of dopant gas for grafting. This provides greater functionality, and a wider range of surface capabilities.



## **GENERATORS**

Our series of intelligent generators offer power output from 1-200kW, with proportional control related to line speed. They can also display either the actual power output in kW, or the energy delivered to the substrate in W\*min/sqm.



## NARROW WEB

The increased use of non-absorbent substrates like film and foil requires correct surface treatment to ensure good adhesion of inks and lacquers and produce the best quality finished label for the end user.

Corona treatment can also replace the need for expensive top-coated papers, which reduces overall production costs.

For more complex applications and R&D purposes, Plasma offers a high level of adjustable surface treatment control.

*Our VE1A Corona stations, which are easy to operate and highly-efficient all feature:*

- **Quick change cartridges** – for easy maintenance
- **Ceramic electrodes** – for conductive and non-conductive films
- **Stainless steel rollers** – for stability and accurate web guidance
- **Double end plates** – for rigidity and uniform treatment
- **Ozone extraction** – for prolonged durability
- **Proportional control** – for matching power to line speed
- **Touch panel** – for automatic control of variables
- **Interface** – for integration of complete process control
- **Modular design** – for quick and easy servicing

SCAN TO VIEW OUR NARROW WEB  
& WEB CLEANER DATASHEET



*All Vetaphone systems use our unique iCorona generators for intelligent treatment control.*

Book an in-person or online demonstration at our purpose built Showroom & Test Lab.

We understand that you want to enhance your product's performance and reliability. In order to do that, you need to ensure seamless adhesion and flawless finishes. Without proper surface treatment, achieving strong bonds is challenging.

Booking a showroom demo will enable you to:

- Demonstrate the capabilities and ease of use of equipment
- See the latest surface treatment technology in action
- Take a risk-free approach before purchasing new equipment
- A solution tailored to your specific business needs
- An unlimited education and knowledge sharing session



SCAN ME





# EXTRUSION

Corona treatment is essential on all blown or cast film extrusion lines to ensure successful downstream converting and non-stop production.

Our Corona systems provide consistently high dyne levels across a variety of substrates because of the advanced design of our generators and treatment stations.

*Our Corona systems, which are easy to operate and highly-efficient all feature:*

- **Quick change cartridges** – for easy maintenance
- **Segmented electrodes** – for width and pattern changing
- **Top film inlet** – for easy webbing
- **Humidity resistant** – for tough working environments
- **Air gap adjustment** – for precise and uniform treatment
- **Ozone extraction** – for prolonged durability
- **Removeable backing roller** – for reduced downtime
- **Proportional control** – for matching power to line speed
- **Touch panel** – for automatic control of variables
- **Interface** – for integration of complete process control
- **Modular design** – for quick and easy servicing

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SCAN TO VIEW OUR  
EXTRUSION DATASHEET



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In today's competitive market, failing to prioritise quality and reliable surface treatment can result in:

- Frustration and stress in the team
- Poor quality product
- Upset customers
- Lower profit margins

By partnering with us, you can trust that we'll work tirelessly to ensure that our products are always fit for purpose, reliable, and easy to operate and maintain.



SCAN ME



# CONVERTING

Corona treatment is essential for high-quality converting processes like printing and laminating.

Many converters experience inconsistent dyne levels on incoming batches of supposedly identical substrates, which causes production issues. Our Corona systems are used to boost-treat substrates to achieve the correct dyne level required for printing, gluing, and laminating at high speed.

In cases where substrates are difficult to surface treat, Plasma treatment may be appropriate.

*Our Corona stations, which are easy to operate and highly-efficient all feature:*

- **Quick change cartridges** – for easy maintenance
- **Upgradeable** – for when demand changes
- **Humidity resistant** – for tough working environments
- **Intermittent treatment** – for 'Skip' control at welding points
- **Air Gap Adjustment** – for uniform treatment of wide webs
- **Proportional control** – for matching power to line speed
- **Touch panel** – for automatic control of variables
- **Substrate matching** – for high-efficiency when changing substrates or adhesives
- **Interface** – for integration of complete process control
- **Modular design** – for quick and easy servicing

SCAN CODE TO VIEW OUR  
CONVERTING DATASHEET



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# PLASMA

In certain cases, such as when working with difficult substrates, Plasma is more appropriate than Corona for surface treatment.

Because it uses dopant gasses in a controlled environment, Plasma surface treatment can be fine-tuned to achieve specific results. As such, it is both an R&D as well as a commercial production process for both printing and laminating.

Plasma technology is applicable to the printed electronics, photovoltaics, speciality films, extruding, and coating sectors of the market.

## *Our iPlasma equipment features:*

- **Oxygen measurement** – for atmosphere control and precise PPM measurement
- **Quick change electrodes** – for unique uniform control of gasses even at low volume
- **Quick change iPlasma system** – for optimum performance and perfect alignment
- **Gas mixer control** – for precise flow to ensure exact properties
- **Generator interface** – for complete production control
- **Touch control panel** – for user-friendly overview of the entire production process

*Proof of concept to evaluate the suitability of plasma treatment, we encourage you to book an in-person or virtual appointment, at our Test Lab where webs up to 1200mm wide can be plasma treated at speeds up to 300m/min.*

SCAN CODE TO VIEW OUR  
iPLASMA DATASHEET



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# VETAPHONE MILESTONES

## AN INTRODUCTION TO A MARKET LEADER

Since Verner Eisby invented the corona process in 1951, Vetaphone has been at the forefront of surface treatment technology, and today is a global market leader that continues to pioneer solutions for surface adhesion problems.

### 1951

*Verner Eisby invents corona treatment*

*Vetaphone A/S is founded in Denmark*

*Vetaphone delivers first corona system in the world and builds first corona generator (the T-series)*

### 2001

*Vetaphone celebrates '50 years in business'*

*Vetaphone launches an OEM concept making it simple for original manufacturers to incorporate the company's corona systems in their printing and laminating lines*

### 2017

*Vetaphone builds new HQ in Fabriksvej, Kolding, and more than doubles the size of its office and production facilities*

**1959**

*Verner publishes his book 'E-NORM' explaining the theory equal to today's industry standard for calculating Watt Density, Material Factor or Corona Dose*

**1965**

*Vetaphone expands and moves into larger premises in Fabriksvej, Kolding*

**1993**

*After many years of success - Verner's eldest son Frank Eisby takes over as CEO*

**1999**

*Verner's younger son Jan Eisby joins the company as Head of Sales*

**2003**

*Vetaphone develops Corona Powersync allowing power synchronisation of multiple generators giving higher Kw power options*

**2011**

*Vetaphone trademarks 'iCorona' and iPlasma' brand names and sells first iPlasma system*

**2014**

*Vetaphone launches UL approved products*

**2016**

*Vetaphone builds more than 1000 corona and plasma systems in one year - for the first time*

**2018**

*Vetaphone achieves ISO:9001 certification*

**2020**

*Vetaphone opens a state-of-the-art test lab*

**2024**

*Frank and Jan Eisby step down from the Executive Board and join the Board of Directors*

**2025**

*Michael Behrens is appointed as CEO to take the company into the future and achieve even greater success*

# WORLDWIDE

CUSTOMER SATISFACTION



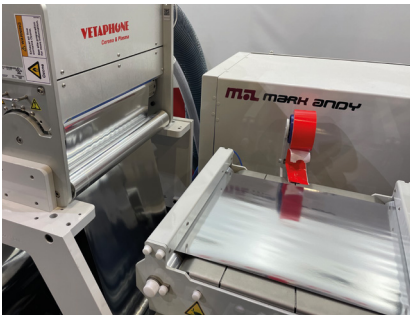
SCAN TO FIND YOUR  
LOCAL AGENT



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## **SOMA / Mr. Peter Kusy, Head Of Purchasing**

The launch of our Optima presses presented a good opportunity to look around at what the market had to offer. Straightaway we realized that Vetaphone was the company to work with. Both companies commit heavily to R&D to make sure they stay ahead of the competition, and we now promote Vetaphone as one of our preferred suppliers on our Optima press.



**MARK ANDY /**  
*Mr. Tom Calvalco,*  
*Managing Director*

As the principal manufacturer of narrow web presses in the western world, and a global market leader in flexo technology, it is essential that ancillary technology fitted to Mark Andy presses meets our own critical standards of performance and reliability. The quality of Vetaphone design and engineering makes them our preferred supplier of corona equipment for all Mark Andy presses in Europe.



**KUNG HSING PLASTIC MACHINERY CO LTD /**  
*Mr. Kun-Lin Tsai, VP*

We were attracted by the innovative design of Vetaphone corona treaters. The Quick-Change system reduces time taken on maintenance and segment setting. Vetaphone's modular style generators and worldwide service organisation helps us to service our customers at any time and in any location. Their production efficiency and quality has exceeded our expectations, and can be considered as superb!



**COMEXI /**  
*Mr. Carlos Rodríguez,*  
*Brand Manager*

We have very strict and demanding specifications that have been successfully achieved during our comprehensive tests. We are more than pleased to welcome onboard such a talented group of professionals, with the latest state of the art technology products.



**NDA SIGNED COMPANY /**  
*Mr. Christopher Lloyd*

It was nice to finally work with a company that listened to our needs and made a solution for us. The quick change system enables us to run with two different types of iPlasma, and at the same time normal Corona. The low consumption of gas is without a doubt the lowest we have been offered in the entire industry. We have now replaced an environmentally unfriendly process with iPlasma. Not only are we saving a lot of money on our running costs, but even better, we have reduced our impact on the environment.



**TRANSCONTINENTAL ADVANCED COATINGS /**  
*Mr. George Rose,*  
*VP Global Sales & Marketing*

As demand continues to evolve and new substrates enter the market, Vetaphone systems allow us to run many more types of films and meet our ever-growing customer needs. The fine control offered by Vetaphone corona technology plays an important part in helping us deliver improved printing and coating quality, and stronger lamination strength, thus bolstering our position in demanding technologies such as automotive and conductive films markets.

*Advanced Corona Treatment by*

**VETAPHONE**

*Inventor. Innovator. Pioneer.*

BOOK A VIRTUAL  
SHOWROOM DEMO NOW



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

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