VETAPHONE

# INVENTIONS

*THAT LAST*

# WELCOME TO VETAPHONE

We are a technology based company with a customer-oriented approach to business and a keen eye on the future.

Proud of our pioneering history in surface treatment, and still family owned and managed, the Vetaphone ethos is all about building trust and partnerships with customers and supplying the knowhow, technology, and personal support to improve their 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.

At Vetaphone, we are constantly adapting and refining the products and services we offer to bring tangible cost and efficiency benefits to all our customers, whether OEMs or end users, and we guarantee them worldwide.

We look forward to working with you, because we value your business, and we value our brand leading reputation.

Frank Eisby

CEO

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

VETAPHONE

Corona treatment = *perfect adhesion*

NonCorona 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*

The difference between corona and plasma is: corona treatment 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 with increased wettability on 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*

*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

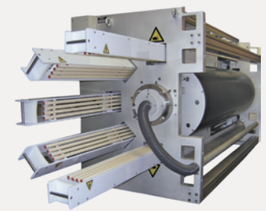
The narrow web corona system, using ceramic electrodes, is designed for label converters that require no limitations with conductive or non-conductive substrates.

### EXTRUSION

The corona pre-treatment of extruded substrates ensures higher surface tension that is essential for further converting processes. Our corona treaters for extrusion lines produce higher dyne levels because of 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 is designed to offer 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.

# VETAPHONE MILESTONES

## AN INTRODUCTION TO A MARKET LEADER

From the time 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)*

### 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*

### 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*

### 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*

### 2017

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

### 2018

*Vetaphone achieves ISO:9001 certification*

### 2020

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

### 2021

*Vetaphone celebrates 70 years in business*

70 YEARS

VETAPHONE
Corona & Plasma

*JUST IMAGINE*

# OUR FUTURE

*SURFACE ADHESION*