

THE TREATING EDGE

BARE ROLL
COVERED ROLL
UNIVERSAL ROLL

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Narrow-Web to Ultra-Wide Treating Technology: World-Sized Capability for a World-Sized Market!



Our TL Max Treater Station is dwarfed by our Ultra-Wide Station.

From a ten-inch (254 mm) or less treat width on our TL Max Narrow Web Station to 7 Meters (23 feet) or more on our Ultra-Wide Station, Enercon has demonstrated the capability to meet the needs of the Extrusion and Converting Markets around the globe.

To remain the leading force in Corona Treating for almost two decades, Enercon has had to advance its capabilities in many directions.

Over the years, we grew from being the premier supplier of Bare-Roll Systems to becoming the leading supplier of a full range of system types: Bare-Roll, Covered-Roll and Universal-Roll.

At the same time, Enercon has parlayed its dominance of the North American market into establishing a leading presence in major markets worldwide. While expanding our geographic capability, we have simultaneously greatly enlarged our total application capability.

Today, Enercon has Corona Treating System applications from narrow web printing to ultra-wide web BOPP production; covering the Four Corners of the earth from Australia to Turkey, from Spain to China, and from Brazil to Canada.

This total capability is well defined on our worldwide web site at: www.enerconind.com. For those who don't have web access, but would like to obtain a complete Info-Pack on our capability, please write, phone or fax to the number on the masthead.



INSIDE:

Corona Treater
Upgrades Boost
Production Levels

In-Line Re-
Treating
Guarantees Quality

Flexo Printing
Seminar Schedule

INTERNATIONAL NOTEBOOK

ENERCON DISPLAYS EQUIPMENT AT ASIAN SHOWS

Recently, Enercon participated in two trade shows held in China; South China International Machine Expo, held in Guangzhou June 2-5, 1999 and Chinaplas, held in Beijing, July 6-10, 1999. Enercon displayed its full-line corona treating capability as well as its sales and service market coverage in Asia.



Aaron Ho, Enercon Agent for Southern China, in the Enercon Booth at the South China International Machine Expo 1999.



BARE FACTS ON THE MAINTENANCE

Tips On Maintaining Your Enercon Corona Treating System.

Installations Made Easy with Enercon's Discounted Start-Up Service

Enercon recently introduced a discounted start-up service for our customers who are unfamiliar with the installation and use of corona treaters.

As part of the service, an experienced Enercon Field Service Engineer will review your treater installation, making sure that everything has been done correctly. Or, if you prefer, the Field Service Engineer can supervise your installation of the treater.

Once your corona treater is up and running, the Enercon Engineer will provide hands-on training for your operators, as well as routine care and trouble shooting training for your maintenance personnel.

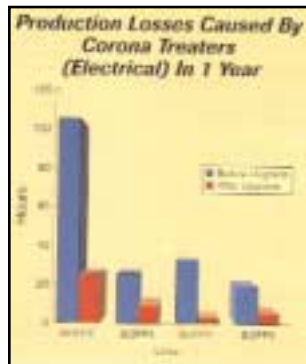
To take advantage of Enercon's discounted start-up service, call Ted Cox or Paul Reed at 414-250-3151. They are ready to tell you more about this new service and provide you with a comprehensive pricing package.

CORONA TREATING UPGRADES ADD TO SUCCESS STORY

Polinas Plastic, located in Manisa, Turkey, is reportedly the first Turkish polypropylene film producer and the biggest producer of biaxially oriented PP (BOPP) film under one roof in Europe and the Middle East.

All six of Polinas's BOPP lines are equipped with corona treating systems. Fatih Seyhan, Polinas's plant manager, recounts that while the first and sixth lines were experiencing relatively smooth production, lines two through five were having problems. "We were making many stops in production," Seyhan says. "So, we decided to modify those four lines."

Since that rehabilitation, Seyhan says that Polinas is pleased with the performance of the Enercon power supplies. "With the previous equipment, we couldn't speed up to [each line's] standard speed. So, we bought the supplies from Enercon and the electrodes from Kasuga Denki. It was a good combination; it's running without problems. And Enercon provided unsurpassed technical support."



Polinas Plastic uses Enercon corona treating power supply units on five of its six BOPP lines. Since the addition, production time is up and customer complaints are down, the company reports.

He adds, "Enercon even modified the 1996-manufactured equipment. When I purchased their equipment last year, they modified the only two-year-old equipment [on the MHI 1996 line] with the new technology." Polinas now uses Enercon power supplies for all five of its BOPP lines.



Application Considerations Worth Noting

By Tom Gilberson

Quality Booster: Why In-Line Re-Treating is Required.

Everyone knows that if you don't treat film at the time of extrusion you will not be able to print, coat or laminate it. However, the opposite is not always equally true.

Treating film at the time of extrusion does not guarantee that you will be able to print, coat or laminate it at any future time. Each film type has an inherent surface energy (dyne level) that can be increased through corona treatment at the time of extrusion. The amount of increase is restricted by the possibility of blocking when the film is wound into a roll. Further, the level

of treatment will decline over time. So, film that is easily printable or coatable right after being extruded can, within a few days or weeks, lose enough surface energy to become unprintable and uncoatable.

Since most converters cannot guarantee that their film will be converted within the required time limit, re-treating in-line is required. Further, treating in-line can not replace treatment at the time of extrusion. Why? Because most films, but especially polyolefins (PE and PP), become almost untreatable after they have set after extrusion. So, if you want to convert film as easily as possible with consistent quality results, be sure to use films that have been treated at extrusion and retreat in-line.

This is the general rule. If you want some specifics on different types of converting films, let me know and I'll send you a technical paper with much more detail.

Regards,
Tom



Dr. Ashok Adur, Project Venture Manager, Product Development at International Paper's Corporate Research Center, Tuxedo, NY, has been awarded the 1999 Leadership & Service Award and Andreas Ahlbrandt Prize by TAPPI's Polymers, Laminations & Coatings Division. The Andreas Ahlbrandt Prize of \$1000 is provided by an endowment from Enercon Industries Corporation. The award will be presented at the Opening Session of the 1999 TAPPI Polymers, Laminations & Coating Conference, August 22-26 in Atlanta, GA.

To have Enercon's new e-mail newsletter, THE CORONA CONNECTION, delivered right to your computer, visit www.enerconind.com/subscribe to sign up! This bi-monthly newsletter will keep you updated on the latest happenings at Enercon and the newest developments in corona treating technology.



EDUCATIONAL SEMINARS SCHEDULED SEPTEMBER '99 & DECEMBER '99

The U.S. Converting Industry is rapidly recognizing the significant advantages of utilizing water-based and UV-cured inks in place of solvent based materials. This brings about the strong probability that water-based and UV-cured inks and adhesives may play an increasingly important role in your converting future. Our one day program, presented by experts in the field, covers topics including: films and plates, retrofitting your press, corona treating, ink handling, UV curing systems, press operation, and much more. Our program is scheduled to take place **September 30, 1999** in La Mirada, CA at the Holiday Inn Select, and on **December 16, 1999** in Columbus, OH at the Concourse Hotel.

It's an event your company can't afford to miss!

Please contact Lisa Topp (414-250-3163) or e-mail: LTopp@enerconmail.com to receive your personal invitation.