

THE TREATING EDGE

BARE-ROLL
COVERED-ROLL
UNIVERSAL-ROLL

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CMM International: A Chance for Enercon to Show-Off!

Don't miss your opportunity to see what Enercon has in store for the Converting and Film Extrusion Industries. As you know, Enercon has been a leader in the surface treatment arena for almost three decades and we don't intend to give up our position any time soon. From the narrowest of narrow webs to the widest of ultra-wide webs, Enercon is raising the technology to new levels of effectiveness and reliability. And, we don't just have answers for substrate surface treatment, we can answer the question, "How do you treat the surface of a molten polymer curtain falling through thick air?" Maybe you think you have a surface treatment or surface energy characterization question that will stump us. If so, come on in to Booth #3374 and let us have it. We may not be able to answer every surface treatment question you can throw at us, but if we can't, I'm willing to bet no one can. After all no other company in this business has invested as much time and money in technical education of the marketplace as Enercon has.

Come One, Come All to:

*CMM International
Booth 3374
McCormick Place
April 12-15, 1999*



INSIDE:

Power for
Your Treater

Skip Treat &
Lane Treat:
Pattern Treat

Specialty Films



YOU NAME IT!

The New, Mini-Power Supply specifically designed for Blown Film applications in conjunction with our standard, single electrode assembly station and Narrow Web applications in conjunction with our TL-Max mini-compact station.

If your suggested name is selected, you will win the newest device in palm computing – The New Palm III. For a chance to win come to our booth at CMM.

Power for Your Treater!

Let Enercon's Power Supply Trade-In Program Improve Your Operation's Results.

The right amount of power at the right time is one of the keys to perfect corona treatment. That's why Enercon developed its Universal Compak™ Power Supplies. They are powerful enough for any corona treating application, but power isn't everything! The power supply is also the brain of any manufacturer's corona treating system.

And that's where Enercon's Universal Compak Power Supplies out-perform all others. Its "Brain", using the latest IGBT chip technology and COS™ intelligent software, matches the load requirements of any electrode type automatically. It also eliminates transformer taps and other operator initiated adjustments, so there is less chance for operator mistakes. With five to one load matching, and the ability to reduce output power to a minimum and still maintain a perfect corona across the web, it's no wonder the Universal Compak is the power supply of choice for users of corona treating systems.



User friendly, unusually quiet and with a compact design, it's small enough to fit in out-of-the-way places. And, it's very easy to install. There is no isolation transformer required.

Depending on the model selected, power outputs of 1kW to 100kW are available. And, Enercon's Universal Compak can be easily installed on every manufacturer's station. That's why owners of other manufacturers' power supplies often replace their tired, old power supplies with the Universal Compak.

Enercon's new trade-in program helps take the sting out of upgrading by offering an attractive trade-in price for your old power supply. So, there's no better time than now to start enjoying the benefits that a Universal Compak from Enercon can bring to your treater. Call Ted Cox or Ralph Brooks at 414-255-6070 for details.



Are You Missing Out on a **FREE** Education?

Yes, we said **FREE!** Enercon would be happy to provide a half day or full day seminar for your production staff referencing application, operation and maintenance of corona treating equipment.

Contact the Corona Treating Sales Department today at 414-255-6070 to schedule your free, in-house seminar.

Specialty Films Operation Adds Tandem Line

A new Faustel tandem coating and laminating line improves process efficiency at Courtaulds Performance Films (CPF) with quick changeovers and significantly increased machine uptime. "Computer controls and state-of-the-art drive systems allow us to have absolute tension control, which is very important in achieving precise laminations," said Keith Dalton, VP of vacuum coating and laminating at CPF. He went on to state, "The Enercon corona treater, a 3 kW Universal-Roll System, enhances wetout and adhesion on a variety of substrates, so we're now working with advanced substrates and a wide variety of coatings that we were not able to use before." High quality, visually perfect, extremely clean laminations were the goal set for the solar control films produced by CPF and the Faustel Line with Enercon Treater has achieved that goal with efficiency and an increase in productivity.



Condensed from a story that appeared in PAPER, FILM & FOIL CONVERTER, July 1998.
For a complete reprint of the article, contact the marketing department: 414-255-6070.

Skip Treat + Lane Treat = Pattern Treat: Or the Impact of Corona Treatment on Heat-Seals.

In almost all instances, corona treatment of a film's surface will cause a weakening of subsequent heat-seals. This is especially true if treatment to high levels is required for follow-on converting operations such as printing, coating or laminating. If treatment to modest levels is practical, heat seal effectiveness is not inhibited. Lets look at a specific example. Polyethylene film when treated to 36 to 38 dynes provides strong heat-seals and can be printed, coated or laminated when using solvent-based materials. However, to print, coat or laminate polyethylene film with water-based material you usually must treat the surface to 40 to 44 dynes. At that level, heat seal strength will be substantially reduced. This especially true if you are heat sealing a treated surface to a treated surface.

What can be done if both heat sealing and water-based printing are required? There are two methods of treating films that can be used to apply high levels of treatment to selected areas of the film's surface while leaving untreated areas to be heat-sealed. These methods are: 1) lane treatment and 2) skip treatment. In lane treatment, the electrode is segmented so that portions of the electrode can be raised to provide lanes of the web that are not treated as they pass through the treater station. This type of treatment is most often done with a Covered-Roll treating system since the metal electrode is most easily segment in practical applications. In skip treatment, a microprocessor-based control allows treatment power to be controlled such that bands of untreated film are left across the width of the web. Skip treatment can be implement as easily with either Bare-Roll or Covered-Roll treating systems. In some cases both lane treatment and skip treatment can be combined to allow what amounts to "pattern treatment." See illustrations below.

