

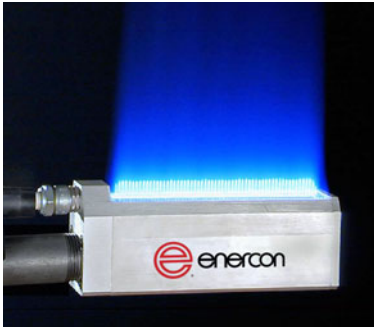


# NEWS

4th Quarter 2004

## 3D Surface Treating Technology

### New flame plasma treater features PowerFlame™ burner



**PowerFlame™ burners provide long lasting, uniform treatment.**

treatment for virtually any 3D surface. Treatment is fast and delicate without ozone, solvent or UV emissions. Results include efficient surface decontamination and polishing as well as secure adhesion of decorations, inks, coatings, and labels.

#### Who Uses Flame Plasma?

Flame treatment is a perfect solution for difficult adhesion problems. It is widely used in the automotive, packaging, construction, decorating and other industries to effectively increase surface energy prior to printing, gluing, coating and painting. Dyne-A-Flame™ is extremely versatile and highly effective in the surface-treatment of plastic molded and extruded parts, electronics, medical devices and appliances.

Enercon's Dyne-A-Flame™ sets new standards for flame plasma treatment technology. Remarkably easy to use and operate, the system's advanced combustion control system is expertly paired with PowerFlame™ burner technology for long lasting and uniform treatment.

Dyne-A-Flame™ offers a safe and reliable means of

Enercon offers free lab evaluations, to help you determine if flame-plasma is right for your application.

#### Advanced Touch Screen Combustion Control

The Dyne-A-Flame's™ self-contained combustion/electrical cabinet includes a touch screen display and operator panel for precise control of air/gas ratio and power output. The Dyne-A-Flame™ controls excess oxygen to within  $\pm 0.1-0.2\%$  of the set-point at any flame power or treat material speed. These set-point values can be entered through the touch-screen operator panel or via interface from external controls. It comes complete with all the necessary safety valves, pressure detection and flame detection for safe operation. No manual adjustments or calibration procedures are necessary. And don't forget it's CE certified.



**The Dyne-A-Flame™ breaks new ground for flame plasma treatment.**

### Introducing the industry's only non-toxic dyne-pens



Testing surface energy has never been safer or easier. The new EnerDyne™ pen is the only non-toxic dyne pen formulation available on the market today.

EnerDyne™ pens are designed to indicate surface treatment levels on polymer

based substrates and establish that the material is correctly treated prior to application. A complete set includes one 30,

32, 35, 38, 41, 44, and 48 level pen. Contact us today at [enews@enerconind.com](mailto:enews@enerconind.com) or (262)255-6070 and ask us about our low introductory price available for a limited time only.



**Incorrect Dyne Level**

**Correct Dyne Level**

**Improving adhesion for printing, coating, bonding, painting and labeling**

## Free technical papers provide insight on surface treating.

If you've attempted to print, label, or otherwise decorate an object you've probably been frustrated by an ink or adhesive that refused to adhere to the part's surface. What you experienced was a phenomenon called low surface energy, a characteristic of some substrates-particularly plastics-that makes them repel printing inks and other coating materials. Contending with low-surface-energy substrates is an obstacle that can be overcome most easily with in-line surface-treatment technology.

Enercon has published two technical articles that review the types of treatment systems available today and explains the role they can play in a printing operation.

The first "An Overview of Surface Treatment for Three-Dimensional Objects," appearing in *Screen Printing* magazine, reveals how 3D items made from plastic and other materials can affect ink adhesion. Learn about surface treating technologies you can use to make these materials more receptive to your prints. The second "Making Ink and Labels Stick to Plastic," featured in *Packaging Design*, studies the several methods that raise the naturally low surface energy of plastics so that ink and labels properly adhere.

To receive your free copy of these riveting articles, contact us at (262) 255-6070 or email us at [enews@enerconind.com](mailto:enews@enerconind.com).



**Enercon's free technical articles review multiple printing options.**

## Is treating right for you? The answer is as easy as 1, 2 or 3.



**Treatment results can be previewed in Enercon's 3D surface treating lab.**

Not sure if treating is right for you? Pick the option that's best for you and contact us at (262) 255-6070 to learn more.

1. Contact your local rep and schedule a visit. Our reps can bring a demo Dyne-A-Mite HP™ air plasma treater to your facility to test your application.
2. Need to evaluate the system on a longer term basis? Try renting a system from Enercon. At the completion of the rental, simply return the unit to us or keep it and apply a portion of your rental fee to the purchase price of the unit.
3. As a service to our customers we offer complimentary lab evaluations. We can compare treatment technologies and system treatment solutions. Treating your samples in our lab provides a preview of the results you can expect in your own facility.

Contact us today at (262) 255-6070 for more information.

### 2004 Industry Event

**Pack Expo International 2004**  
Booth #S1254  
November 7-11, 2004  
Chicago, IL United States

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