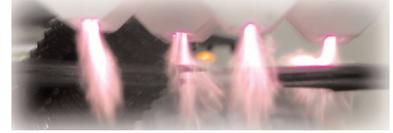


Dyne-A-Mite HP™



The Dyne-A-Mite HP™ eliminates the need for chemical priming and etching processes.

Rely on Enercon's new Dyne-A-Mite HP™ to economically improve surface adhesion with a highly effective and uniform air plasma arc.

Its unique design generates an aggressive blown arc discharge that is ideal for higher line speeds and demanding applications.

Remarkably easy to operate, the system effectively improves adhesion on all types of surfaces for printing, painting, coating, bonding and labeling applications.

It treats extruded, pultruded, molded and formed materials. Treatment is ideal for PE, PP, PET, nylon, vinyl, polystyrene, polycarbonate, PVC and all other types of thermoformed and thermoset plastics.

Effectively Treats

✓ABS ✓EPD ✓EVA ✓PMMA ✓HDPE ✓LDPE ✓TPU ✓PC ✓PE ✓PET ✓PP ✓PS ✓PU ✓PVC ✓PBT ✓ASA

System Features

- **Easy Operation** - front panel mounting of all controls and indicators with simple power ON/OFF and treatment START/STOP buttons
- **Remote Start/Stop** - terminals available for customer supplied start and stop push buttons
- **Heavy Duty Blower**- provides continuous high volume air jet for maximum plasma deflection and treatment. (Not included with compressed air model)
- **Rugged High Voltage Power** - hv trans former is rated for long-term reliability under continuous duty.
- **Safety** - terminals are provided for external interlock to ensure safe operation.
- **Communication interface cable**- for remote operation, loss of treatment indicator, safety and operational interlocks
- **Advanced protective circuitry** monitors and protects against over current, under power and air flow
- **Virtually No Maintenance**

Treatment heads

Deluxe Head

Extended head shaft
Interchangeable electrodes
Max treat width of 3.5" or 2.5"
Useable treatment gap of 1/8"-3/8"



Compressed Air Head (Option)

More intense discharge
Ideal for robotic applications
Combined electrical/air hose
Maximum treat width of 2.5"
Useable treatment gap of 1/8"-1/2"



| Dyne-A-Mite HP Specifications (Specifications subject to change without notice) | Model | Dimensions | Weight | Voltage |
|--|-------------------|-------------------|---------------------------|----------------------------|
| | Single Head | 10"D x 18"W x 9"H | 33 lbs. | 120V, 7 Amps/240V 3.5 Amps |
| Double Head | 18"D x 20"W x 9"H | 60 lbs. | 120V, 14 Amps/240V 7 Amps | |



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Enercon Surface Treating Systems



How *blown-arc* air plasma treating works:



Blown-arc air plasma is formed by blowing atmospheric air past two high-voltage powered electrodes and is sometimes referred to as corona treatment.

The electrical discharge positively charges the ion particles surrounding it. Through direct contact, these particles positively charge the treated area of the object's surface. This makes the surface more receptive to any applied substance such as inks.

Air plasma is a popular surface-treatment technology because it is effective, easy to use and inexpensive to operate.

Why surface treat?

Printing- Surface treating parts prior to printing enhances ink adhesion. It makes printing easier, and for others it makes printing possible.

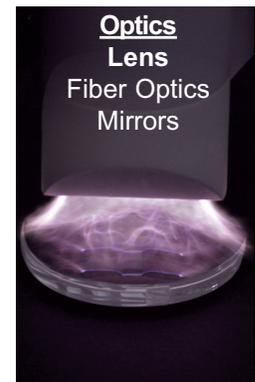
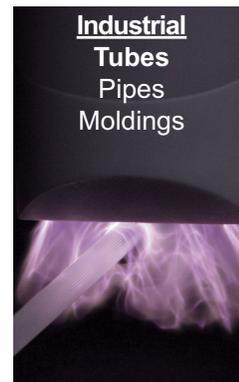
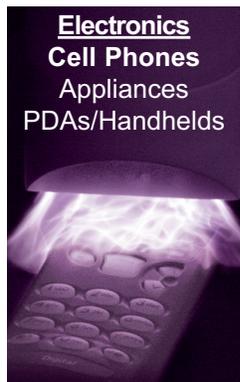
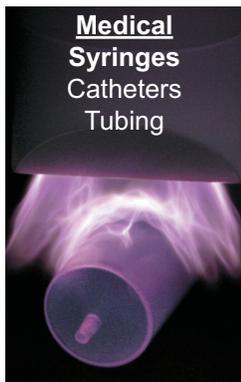
Painting- Injection molded or thermoformed parts are often treated prior to painting. Surface treatment allows the paint to adhere and also increases the life and durability of the paint on the object's surface.

Coating- Products are coated to protect their surfaces from harsh environments or as decoration. Doors, frames, and extrusions/profiles are often coated. The medical industry uses surface treating to improve adhesion of antimicrobial/antibiotic coatings.

Bonding- Bonding is primarily used to increase the strength of an adhesive. The medical and automotive industries rely on surface treating to remove contaminants such as dust, grease, oils, or mold to improve bonding. Typical cleaning solvents such as methyl ethyl ketone (MEK), trichloroethylene, toluene, or acetone may be used for this purpose, but cleaning agents that leave a film residue upon evaporation will retard bonding.

Labeling- Surface treating caps, bottles and lids ensure that labels will not peel off before complete destruction of the label occurs. Air, flame and chemical plasma treatment of materials like HMWHDPE can effectively improve adhesion of labels.

Application Gallery



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