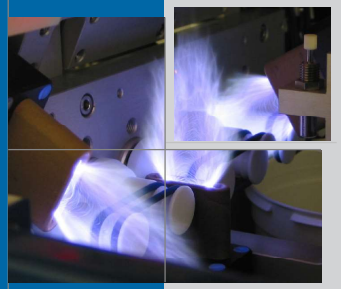
SICATECH

UNI-SYSTEMS™

It is simple



CORONA Pre-treatment

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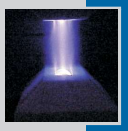
What is Corona pre-treatment ?



Corona treating has become one of the most effective and common methods of pre-treatment of virtually any solid material.

The low surface energy of many materials often leads to poor adhesion of inks, glues and coatings. The SICATECH Corona system is the perfect way to increase the surface energy.

The SICATECH Corona pre-treatment system is used in a wide range of industries, such as:

- Medical
- Electronic
- Printing
- Automotive
- Cosmetic
- And many other industries where adhesion is important for the quality.

How does it work ?

The corona is a high voltage electrical discharge applied to the surface of the material in need of pre-treatment. The discharge of the corona field is formed with electrodes connected to a high voltage power supply (generator).

The surface gets bombarded with electrically loaded molecules. These ions will attach them selves to the surface and change the surface energy.

The surface energy will decrease over time. The rate the surface energy declines is pending on the particular material and the handling of it

How can it be solved ?

The SICATECH Corona system is the most flexible solution on the market today. It will take pre-treatment to a higher level and still keep it simple. Unique design with all the features to ensure high quality and the power to treat virtually anything.

By ongoing research, our corona systems will continue to be top of the line and provide the newest technologies at all times.

Automotive

EPDM rubber profile pre-treated before coated with Teflon or flocking.

Medical

Adhesion of markings on these medical Polypropylene parts is a must.

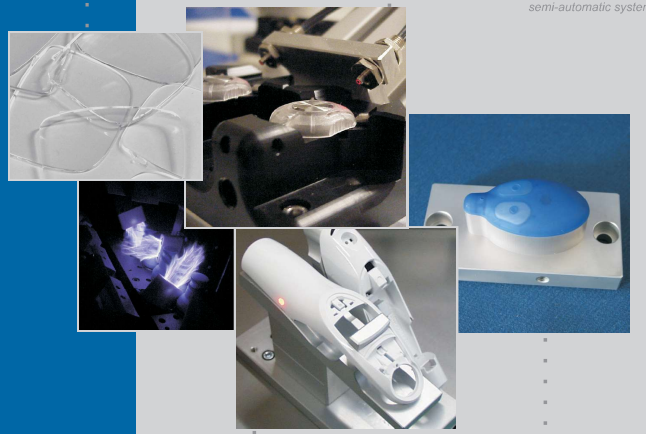
In-line selfcontained fully automatic system with three treating heads giving the medical part treatment 360° around one end.

Optical

Lenses for mobile communication devices treated for UV-ink adhedsion.

Medical

Dial treated and printed in a semi-automatic system.



House-hold

Handle treated and printed in a full automatic system.

Communication

Control knob treated for better adhesion before printing.