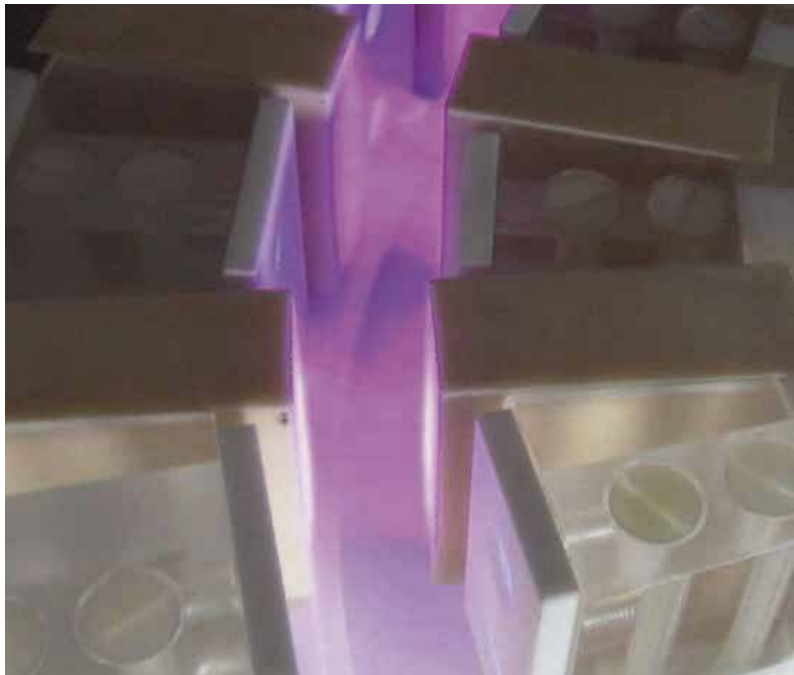
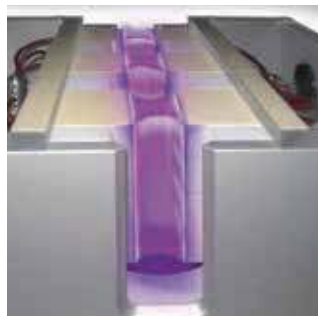


FEATURES:

- Non-contact treatment
- No inside treatment
- High line-speeds
- Fully integrated
- Different syringe sizes
- Complete process control
- Cost efficient treatment
- Uniform treatment
- Surface energy

SyrinTEC Corona Treatment of Syringes



SyrinTEC is specially designed for 360° treatment of PP and PE syringe barrels. Normally the SyrinTEC is built into the printing line and positioned as the final process before the barrels enter into the printing machine. Using the SyrinTEC enables treatment of the entire outside surface without any inside treatment, which would increase friction on the inside barrel and cause the plunger to drag when used.

The purpose of surface treatment of polymer-based materials is to increase surface wettability through electrical discharge. The low surface energy of polymer-based substrates often leads to poor adhesion of inks, glues and coatings. To obtain optimum adhesion, it is necessary to increase the surface energy of the substrate to just above that of the material to be applied. Surface treatment with corona results in improved surface adhesion properties.

SyrinTEC is specially designed for optimizing the adhesion properties of printing inks onto syringe barrels which are normally made of low surface energy polymer material such as PP, PE and others.

SyrinTEC uses highly durable ceramic electrode elements resulting in complete and uniform treatment of the syringe barrels. The SyrinTEC is available both as a standard unit in a low and high speed configuration for integration into existing printing lines. Customized units are available for specific printing machines.

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Non-contact treatment

Electrodes do not touch the syringe barrel.

No inside treatment

Opposed polarity electrodes enable treatment with no metal jig inside the barrel. This eliminates inside treatment which would cause the plunger to drag.

High line-speeds

Keeps pace with any printing machine.

Fully integrated

Both straight throughput and half circle lines available for full integration.

Different syringe sizes

No need to change electrode set-up to cope with different syringe sizes.

Complete process control

The HV-X power generator provides data and communicates with all PLC's.

Cost efficient treatment

No special requirements, only electricity necessary. The unit is a very cost efficient solution for improving surface wettability and adhesion.

Uniform treatment

The electrode gate concept ensures uniform treatment.

Surface energy

Depending on material and line-speed.

| Technical Specifications | SyrinTEC |
|-----------------------------|--------------------------------|
| Mains Voltage and Frequency | 230 VAC, 50/60 Hz |
| Output voltage/plasma power | 2 x 40 Kv/max. 2000 Watt |
| Power supply | HV-X plasma generator series |
| Line speeds | Max. 25 m/min |
| Syringe diameter | Max. 18 mm |
| Treatable materials | PP, PE, PS, PC, ABS and others |
| System type | Table top for full integration |
| Exhaust | Ozone filter system |
| Regulation compliance | CE - RoHS - WEEE |