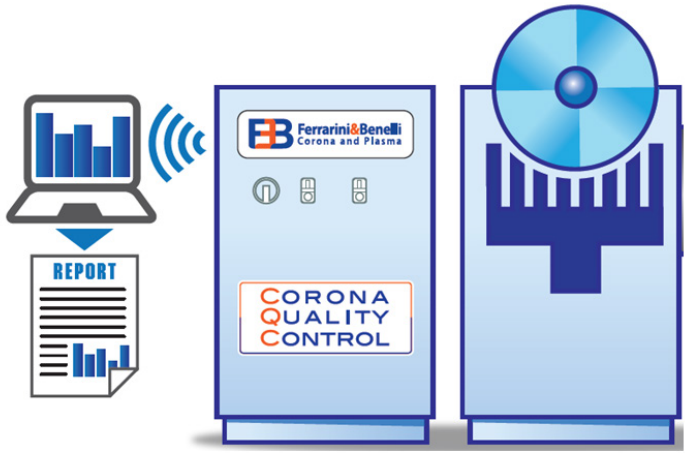
Ferrarini & Benelli at K2016 – Stand 10H26

Ferrarini & Benelli will join the German tri-annual exhibition K2016 in Düsseldorf (19 - 26 October 2016) dedicated to raw materials producers, plastic and rubber machinery manufacturers and converting companies.



Among the 3.000 exhibitors coming from 50 countries, nearly 400 are Italians. Over 200 thousands professional operators are expected.

Ferrarini & Benelli will present corona treatments and plasma treatments entirely designed and manufactured in Italy.

BIKAPPA ROTARY with vulcanized silicone rollers and stainless still electrodes.

High-technology double-sided treatment station, particularly suitable for mounting on high-performance blown film extruders (that require the use of high power coefficients for high working speed and/or for particularly slippery materials) or on flexographic presses in line with extruders.

Available with multiple discharge electrodes in aluminium or with stainless still coating, in single bar or with segments for zone treatment. On show the electrodes with the new stainless still coating, which assures long lasting and more efficient corona treatment.

The system, available with different rollers diameters, will be presented with a vulcanized silicone coating, ideal for high-speed applications.

Touch screen display generators
The new digital generators combined with Ferrarini & Benelli's corona systems can attain the high power needed to treat the most difficult materials at maximum line speed. The generators software independently manages the power circuit to adjust it automatically according to the line speed.

At K2016 it will be possible to get your hands on the new generator series equipped with the touch screen panel. Ferrarini & Benelli have designed the new attractive graphics for managing all corona parameters and functions in a very intuitive way.

This generators series is equipped with **Corona Quality Control** for the monitoring of treatment data that are visible on the display together with graphics. Processing data are first recorded on the SD memory card installed in each generator and then copied to a PC. Then, thanks to the software Corona Quality Control by F&B it is possible to analyze corona treatment data and produce Corona Quality process certificates. A single application to check all treatments, lines and reels.

CORONA 3D – In the air surface treatment
Innovative corona system for treating non-conductive materials: three-dimensional plastic objects or small areas of two-dimensional plastic

surfaces. CORONA 3D can supply a corona discharge on surfaces of plastic materials to enhance the surface tension (wettability property) and increase the adhesion of inks, adhesives and coatings.

The system is composed of a **high-frequency and high-tension digital** generator with integrated transformer and a torch that directs the discharge toward the substrate that needs to be treated by an air flow. The treatment width of a single torch is **40 mm**. The system is also available with two torches.

Applications
• Ink-jet and Pad-printing lines for a better printing quality

• Coding and marking lines to improve codes reading and to guarantee a long lasting bonding.

• Label lines for a better adhesion of labels on 3-D objects.

PLASMA 3D
Atmospheric plasma treatment is composed of a **high frequency generator** and **a dedicated nozzle** and can be integrated into existing production systems or mounted on industrial robots

FB Plasma **3D is suitable for treating 3D objects, small areas of plastic parts, profiles and sections, cables and pipes, strips of plastic film**.

Applications
• Printing: Pad printing, Silk-screening, Ink-jet printing

• Laminating

• Application of glue on folding cartons

Dyne Test Kit: inks, pens and markers
To quickly assess the level of adherence of a liquid on a plastic surface, or the aptitude for printing and for gluing (wettability), Ferrarini & Benelli proposes the well-known liquid mixtures and two new pens that represent a convenient alternative to liquid mixtures.

• **Dyne Test Inks** are special liquid mixtures that allow assessing the level of adherence of a liquid on a plastic surface. Used mainly in the Laboratory, they allow accurate measuring of the effects of corona treatment (value of reference 30 – 58 dyne/cm)

• **Dyne Test Pens** are non-toxic and are used by operators that handle the production lines to quickly check if a material has been treated, or not (value of reference: 38 dyne/cm). If the area is treated, the liquid remains spread for at least 2 seconds

• **Corona Markers** underline the treated areas, in fact the ink remains permanently on the treated zones in order to underline where the corona treatment has been done.

More info at
www.ferben.com