



Ferrarini & Benelli Srl

Innovative sheet-fed Corona treatment

The experts at Ferrarini & Benelli explain how to enhance quality and efficiency in paper converting and printing.

In the world of paper converting and printing, achieving perfect surface activation is key to ensuring high-quality adhesion and optimal printing results.

Addressing the specific challenges of treating sheets

Ferrarini & Benelli's innovative Sheetfed Corona Treatment System, called Format, addresses the specific challenges of treating sheets of varying formats, including the lightest and finest, providing a solution that combines cutting-edge technology with practical, high-performance features. This system ensures fast sheet feeding without the risk of jamming, allowing for smooth integration into high-speed production lines.

What is Corona treatment?

Corona treatment consists of a high-voltage electrical discharge that increases the surface tension of substrates, improving adhesion and allowing better bonding for inks, coatings, and adhesives. For paper and plastic substrates, this treatment enhances their properties, ensuring great results in various printing, coating, and bonding applications.

Key features of Format sheetfed corona treatment

Stand-alone or production line integration: traditionally designed for roll-to-roll applications, the new Format is ideal for sheet-to-sheet applications and can be used either as a stand-alone machine (motorised), perfect for laboratory testing and for treatment reinstatement or as part of a larger production line for continuous processing with high-speed printing lines.

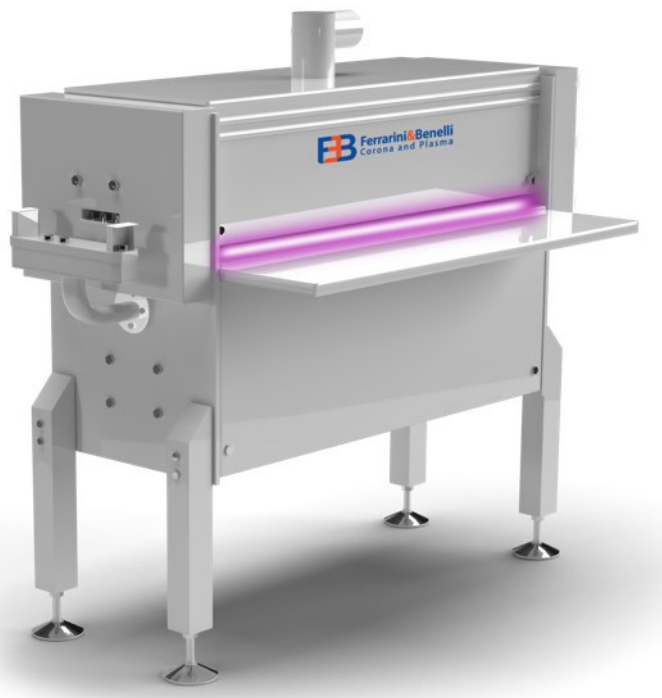
The system offers a treating width of up to 850mm, which ensures it can handle a wide range of sheet sizes, meeting the needs of various applications.

Format's modular layout allows the system to adapt to different production requirements. If more surface activation is needed, additional electrode units can be added to **increase the discharge area**, providing enhanced performance for more challenging substrates or high-volume production environments.

Applications of sheetfed corona treatment

Paper converting: it is especially useful in converting applications, particularly when dealing with plasticised coatings or varnishing on already printed paper, ensuring that inks and coatings adhere perfectly.

Digital and screen printing: The system enhances bonding during digital and screen printing, improving print quality and consistency.



The new Format by Ferrarini & Benelli



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