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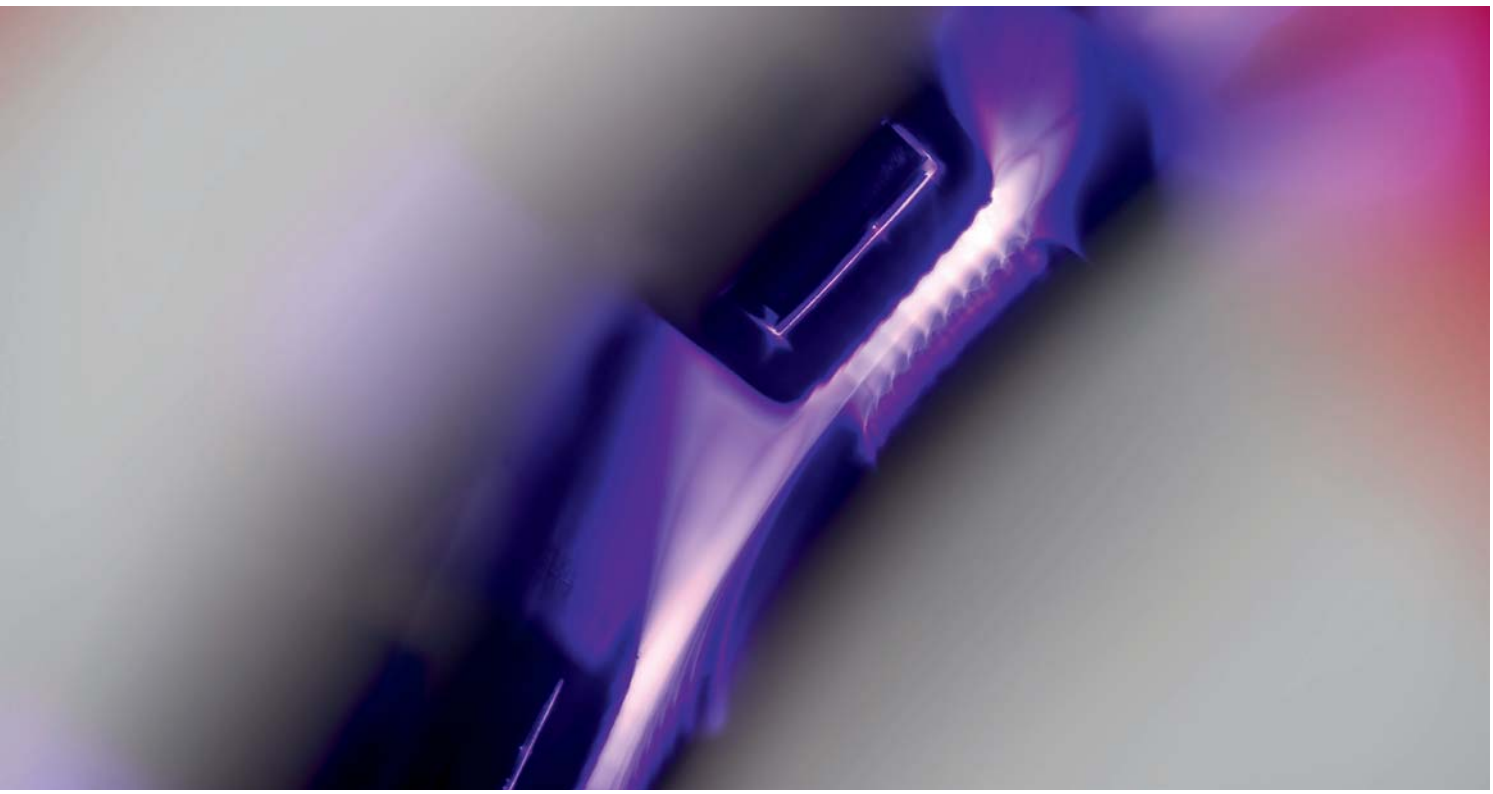
Printing, Lamination and Coating



For each application AFS manufactures the appropriate Corona Station

Packaging today is a very complex composite of different materials. They can be laminated, metallised, printed and coated. The requirements of the customers for these packages and the materials are extremely high.

They are designed to provide durability and different barrier properties and of course stable attractive colours. The trend to reduce the level of solvents in adhesives and paints has to also be taken into account. All this places high demands on the production process.

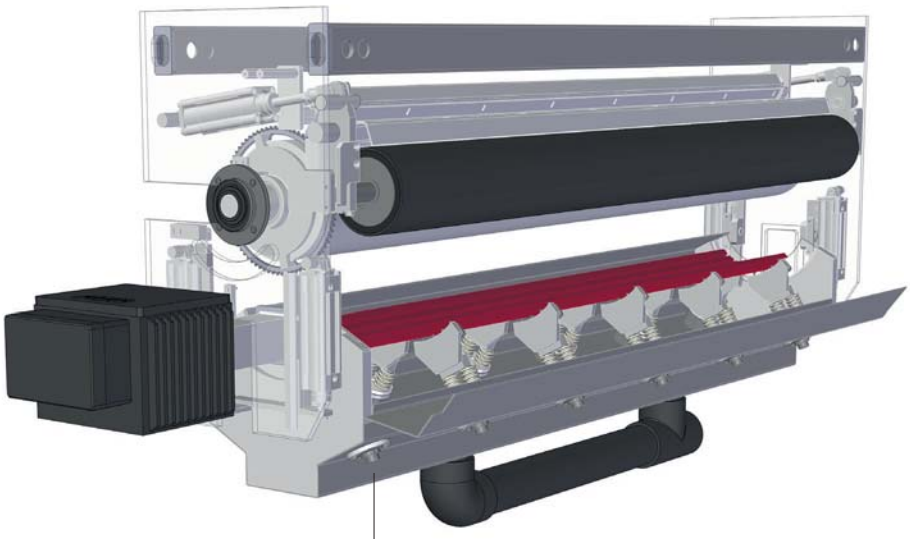
AFS investments are a key part of this process providing adhesion to plastic, paper or metal surfaces as part of the packaging integrity so that the contents stay fresh.

The required surface tension for printing, lamination and coating will reduce from the level reached by corona treatment during the extrusion process over a period of time in transportation or storage.

This effect, caused by, for example, waxes and lubricants in the material requires that prior to the subsequent process Corona treatment is again necessary. By this so-called refreshment the surface tension of a substrate is increased, or the surface energy level reached in the first treatment is restored , so improving the wettability and the adhesion to the substrate surface.

AFS offers a variety of system configurations, which can be based on the particular application, as standard or as a customised system easily integrated into existing and new production lines. End users as well as OEM customers benefit permanently from the great flexibility, know-how and the innovations of AFS and enjoy technical perfection with simple operation..

The spray gap can be set accurately and reproduced from the outside.



The ceramic electrodes of AFS have revolutionized the market. Its patented suspension makes them particularly robust and resistant to fractures which occur only very rarely. The pivoting holders allow for movement in all directions.

System Example:
The AVE-250E is an all-rounder suitable for applications in printing, lamination and coating.

TECHNICAL DETAILS

Application Details	Printing, Laminating, Coating
Working Width	800 – 4000 mm
System Version	Single-Sided or Double-Sided
Electrodes depending on plant type	– max. 2 x 9-finger Segmented electrode – max. 32 High Output Electrodes in Stainless Steel – max. 2 x 10 High Output Electrodes in Stainless Steel with special cooling cassette – max. 22 High Output Electrodes in Ceramic – Combination of Segmented and Ceramic Electodes possible
Treater Roller depending on plant type	Silicon Coated, Ceramic Coated, Aluminium blank or with Corrosion-proof Coating
Working Line Speed	Up to 1000 m/min
Generators	1 – 96 kW, higher output on request
Technical Highlights	– The best Electrode mounting on the market (AFS Patent) – External Spray Gap adjustment – Customer design-specific Corona Stations – Robust, reliable and compact design for extremely easy cleaning and maintenance – High efficiency of the corona generators benefits the user in capital and operating cost

SYSTEM CONFIGURATION EXAMPLES FOR THE AVE-250E

Configuration	Configuration A	Configuration B	Configuration C	Configuration D
Electrodes	9-finger Segmented Electrode or 2 x 9-finger Segmented Electrode	16 High Output Electrodes in Stainless Steel	8 High Output Electrodes in Ceramic	9-finger Segmented Electrode and 4 High Output Electrodes in Ceramic
Treater Rollers	coated with silicon or ceramic	coated with silicon or ceramic	Coated with corrosion protection or ceramic (rarely with silicon) or bare aluminum	coated with silicon or ceramic