

## **MODERN EXTRUSION COATING AND LAMINATING LINE FOR TECHNICAL APPLICATIONS AND FOOD PACKAGING**

How does one react quickly to changing market requirements? SML has built a modular high-tech extrusion coating line, which is flexible in terms of the product type and web width and which can be operated with a minimum of manpower.

Various products such as cardboard, paper, fabric, non-wovens, film and aluminium foil down to 6.35 µm can be processed on the line.

Two fully automatic shaft-less turret unwinders, adjustable in width from 750 to 1600 mm, give the flexibility to produce either a single layer coated product or a laminate structure. They can handle roll diameters of up to 1500 mm with different diameters of cores. Due to the new and unique cutting system, bi-directional unwinding and splicing can be done at full production speed. New substrate rolls can be handled by a hydraulic lifting table or a crane system so that a minimum of manpower is required for roll handling.

Corona treatment stations for both substrates with ceramic rollers and ceramic electrodes ensure a perfect bonding strength also for conductive materials such as metallised films or aluminium foil.

The laminator uses a quick-coupling system and a separate integrated crane runway for the quick exchange of the large-diameter chill rolls with different surfaces.

The 120 mm main extruder mounted on a height-adjustable carriage and equipped with a

4-component gravimetric batch dosing system provides a maximum extrusion output of 850kg/h. A later expansion with an additional 75 mm extruder for co-extrusion is already foreseen.

An automatic die with an internal deckling system combined with a radiometric dual-frame differential thickness measuring system guarantees excellent thickness profiles even for coating layers down to 8 µm.

The finished product is wound on a turret winder which is equipped with an integrated edge trim and part bobbin cutting system and can handle mother-rolls as well as customized multiple webs.

Customers will appreciate the compact machine design. Due to the modular structure of the line, customers will successfully grasp market opportunities and will be able to adjust to the changing requirements of the market in the future.

341 words

Lenzing, 23<sup>rd</sup> of September 2009

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