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Autefa Solutions at ITM, 2018- serves the Turkish Nonwovens market

The Turkish nonwovens market covers almost all application-fields. Typical applications of needle-punched nonwovens are the production of artificial leather, automotive felts, carpets and carpet backings, insulation materials for thermal and noise insulation, geotextiles, industrial wipes and technical felts. During ITM, visitors will see the economic and technical advantages of Autefa Solutions as a full line supplier for carded- crosslapped needlepunch lines and thermobonding lines. AUTEFA Solutions nonwovens lines meet customers' requirements for quality web formation, bonding, active weight regulation and minimal maintenance.

Giacomo Meucci, Regional Sales Director, Autefa Solutions: "We see an increasing demand in reliable and cost-efficient production lines for the highly-competitive Automotive market. Our customers need high-speed lines and an improved quality". The Web Master FUTURA card is developed and designed for high production speeds with a special focus to improve the cost factor of maintenance. The different modules of the card, means feeding group, main cylinder, transfer group and doffers, are each placed on a separate carriage. The carriages are connected to each other and form a "train" which allows easy and full access for cleaning and maintenance. The crosslapper Topliner in combination with Web Profile Control WebMax is the key to the web quality. The crosslapper Topliner optimizes the CV-value which leads to significant reduction of material costs. The two drafting zones of the WebMax ensure a slight pre-draft and a precise draft of the web in the second drafting zone. This is of special importance to guarantee constant quality at high production output t with all raw material types.

Autefa Solutions offers a wide product range including Stylus single- and double-board needle looms, tandem needle looms, velour-, structuring and patterning needle looms as well as needle looms for paper maker felts. Needle Looms for fabrics and needle looms for glass fibers insulation matts were requested by customers. Customers like the extremely reliable and robust Stylus series (from 1 m up to 16 m working widths). The advantage of the design offers vibration free running, needle densities up to 30000 needles per meter and highest production due to stroke frequencies up to 3000 rpm in continuous operation. Autefa Solutions is a full-line supplier and a market leader for top quality artificial leather lines. During the last years the company sold several complete lines to leading producer Alcantara, Italy and to Toray Group, Japan. The high-quality artificial leather products are widely appreciated by the most famous brands in automotive industry.

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At ITM Autefa Solutions shows innovative solutions for the processing and recycling of carbon-, glass-, aramid- and natural fibers. Since 2010 the company is concerned with the re-utilization of recycled carbon fibers to carbon fiber nonwovens and has already successfully placed production lines in the market.

Energy saving spunlace solutions

Hydroentanglement is the ideal method of producing nonwovens for the strong growing wipes or cotton pads markets. Autefa Solutions has developed and patented the V-Jet injector. The V-Jet injector is installed in several productions and led to significantly higher tensile strength at same entangling water pressure than a standard injector. The possible reduction of water pressure is in the range of 20 %. In addition, the water consumption is reduced by 10 % when using the same nozzle diameter and pitch. Depending on the application, this new technology leads to an energy saving of up to 30 %. The new Square Drum Dryer SQ-V combines the advantages of a horizontal dryer with the lower space requirement of a conventional drum dryer.

The nozzle system in the Autefa Solutions Square Drum Dryer SQ-V uniformly distributes the airflow in terms of speed and temperature throughout the whole working width, providing best spunlace web and surface quality results. The Square Drum Dryer SQ-V has different heating zones and operates each heating zone with optimal drying conditions. For a capacity of 2,5 tons water evaporation per hour, the Square Drum Dryer SQ-V is using 4 chambers where the temperature, airflow and humidity profile is individually adjustable and controlled. Due to the small footprint the Square Drum Dryer SQ-V is the ideal solution for energy optimizing of existing lines.

Complete lines from Autefa Solutions for the manufacturing of ADL

The consumer products benefit from the nonwovens features elasticity, softness and absorption. As a premium supplier, Autefa Solutions delivers machines for opening, blending and carding as well as ovens and dryers out of one hand. Autefa Solutions high-speed oven HiPerTherm HS distinguishes itself by an approved accuracy airflow system with high production speeds up to 250 m/min. The HiPerTherm HS is a single belt oven for thermobonding and drying. The double nozzle system allows the creation of extremely uniform product treatment. The key strengths of the AUTEFA Solutions belt dryers are highest uniform airflow, the precisely adjustable temperature distribution and the ability to maintain loft. The machine has been especially designed for the manufacturing of top sheets and ADL what demands utmost accuracy. The nozzle design prevents dust accumulations and ensures the capture of dust in the automatic filter systems.

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