

DILO GROUP

ENGINEERING FOR NONWOVENS

DiloGroup at ITM + Hightex 2022

Hall 9, booth 905A

International textile producers meet again in Istanbul, Turkey, from June 14 – 18, 2022 on the occasion of the ITM + Hightex Exhibition. The ITM + Hightex Exhibition in Istanbul is the most important exhibition in Turkey and the Middle East. Especially in Hall 9 (Hightex) the exhibitors will present the complete industry value chain from nonwovens raw materials, production machines and accessories to the endproduct. The related industries covered include hygiene, filtration, fabrics and apparel, medical, automotive, wipes, home furnishings and upholstery. DiloGroup offers tailor-made production systems from one supplier and will inform on booth # 905A about its portfolio and the latest equipment developments from fibre opening to the finished felt.

As a leading group in the field of staple fibre nonwoven production lines DiloGroup will inform about complete lines as well as high speed needlooms for spunbonds.

A new, simplified elliptical needle beam drive makes Hyperpunch technology also attractive for standard application. Hyperpunch H_aV allows a more uniform stitch distribution in the preneedling process especially in combination with the new needle pattern 6000X. In a complete needling line this felt homogenization process can be improved further. The new needle pattern 8000X is a milestone in the needle pattern development process and results in endproduct surfaces with low markings over a wide range of advances/stroke.



Needle arrangement "8000X" for a more even needlefelt surface

Another strong pillar of our sales program over decades has been fibre preparation and high speed webforming equipment for other nonwoven technologies. During these years, there has been a shift to higher throughput rates, and in some cases in Asia, a requirement for improved MD/CD strength ratios of hydroentangled products. In addition, our further development of the high-speed layering principle “Hyperlayer” made considerable progress for better CD strength through a combination of inline cards and crossline card with crosslapper. Particularly, carding machines in a working width above 3.5 m up to 5.1 m have been supplied by DiloSpinnbau as complete high speed carding systems, comprising two or even three cards in a line to directly feed the hydroentangling units of various suppliers. Together with DiloTemafa not only have high throughput rates been achieved in the fibre preparation section of the line but also dedusting filtering and air-conditioning systems have been successfully engineered and integrated.

Until recently, Dilo did not supply complete lines including water-jet units, ovens and end-of-line equipment to the important hydroentanglement market segment. This has changed and Dilo is glad to confirm the partnership with Sicam, Italy. Together with Sicam, we have combined know-how for hydroentangling technology and therefore can provide complete lines as general contractor including equipment for cutting, winding and packaging.

Another interesting machine is the 3D-Lofter, first presented during ITMA 2019 in Barcelona, which offers a wider range of nonwovens applications by exploring the third dimension. A series of single web forming units which work according to the aerodynamic web forming principle deliver defined fibre masses in varied patterns on a base needlefelt. A stress oriented production of technical formed parts resulting in fibre savings or patterned DI-LOUR or DI-LOOP felts with or without repeat are two examples for this technology which explores new application areas for needlefelts.



3D-Lofter

The 3D-Lofter technology may also be used “inverted” as “IsoFeed” for filling up bad spots in web mats and thus achieves a better homogeneity of spunlace or airlay products.

The DiloLine 4.0 concept offer I4.0 modules which not only support the user but also facilitate quality control and maintenance by a maximum data transparency in production and control of operation. The Dilo solutions “Smart Start” for a fully automatic start of the production line or “DI-LOWATT” for energy savings are accompanied by Siemens solutions which can be selected via App or Data Cloud “MindSphere”.

With more than 400 installations delivered to the nonwovens industry worldwide, DiloGroup has the necessary know-how and the complete equipment portfolio to engineer the perfect production line for any product specification. The efficiency of Dilo production lines is the result of long-term research work and experience.

We look forward to welcoming you at our booth # 905A in Hall 9 during ITM / Hightex.