

DILO GROUP

ENGINEERING FOR NONWOVENS

PRESS RELEASE

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Dilo Inc – Booth # 2141

Dilo Inc. will provide extensive information about recent machine concepts from the DiloGroup companies DiloTemafa, DiloSpinnbau and DiloMachines. A major focus of the new equipment is to improve operation efficiency, web quality and uniformity with positive effects on all bonding processes.

In particular the following equipment will be presented:

- The **DON dosing opener** of DiloTemafa designed as a link between the opening/blending operation and the card feeder. The DON ensures that fibre flow to the feeder is both continuous and consistent.



DON dosing opener

- The **MultiFeed card feeder** from DiloSpinnbau which is available in working widths which can exceed 5 m. This unit is equipped with a twin fibre delivery system in the upper chamber which provides a more regular material flow. A two

roll opening stage allows fibre into the lower chamber with further compaction by mechanical means and air movement derived from the permeable delivery apron. Such a unit can deliver over 400 kg/m/hr of 1.7 dtex fibre with a cross direction evenness CV of 2-3 % immediately prior to the card. Changeover times with this Multifeed system are fast thus reducing downtime and web reprocessing requirements. Machine direction evenness is controlled by a weighbelt scale linked to the card infeed.

Multifeed can be used with all DiloSpinnbau card types in crosslapping applications or with high speed cards in series for web formation prior to hydroentanglement and thermal bonding.



MultiFeed with Twinflow

- The **MultiCard** – also designed by DiloSpinnbau - has roller infeed, a breast cylinder with three worker/stripper pairs and a 1500mm main cylinder with a further five roller pairs. This is a double doffer system with the possible activation of condenser rolls for heavier webs. Such a card will handle the full range of fibre fineness and length with a web speed potential up to 200 m/min and offers an economic solution for cross laid nonwoven production. The MultiCard enjoys a high production availability due to its easy and fast accessibility for cleaning and maintenance work.



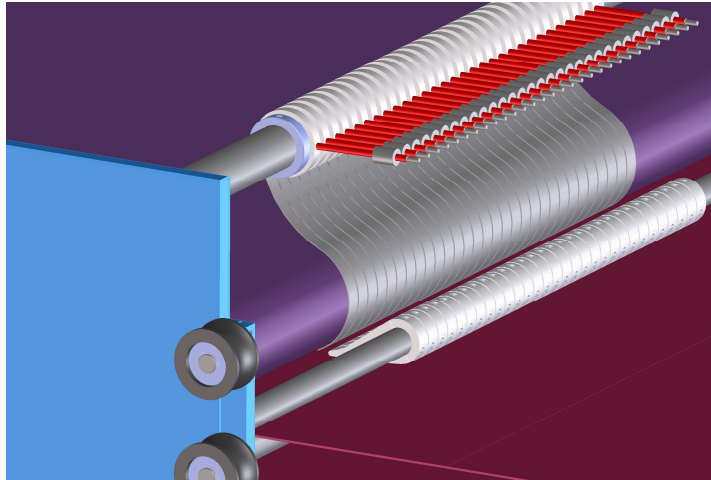
MultiCard in maintenance position

- Vertical (HL series) and horizontal (DL series) **crosslappers** available from DiloMachines which provide infeed speeds up to 200 m/min (HL series) eliminating bottlenecks in the production line. The Dilo DL lappers operate in an infeed speed range of 80-160 m/min depending on application and specific model used. In addition to high infeed speeds new apron arrangements have been designed to give high layering precision based on excellent web control. These machines have been supplied up to 14 m in width for papermachine clothing applications.



Horizontal crosslapper of the DL series

- The redesigned **Webguide** from DiloMachines which improves felt homogeneity and results therefore in significant fibre savings.



schematics of Webguide

Of course, the further development of needlelooms continues. Elliptical and circular needlebeam movements are used to control drafts in the needling zone and also provide high speed felt production in the 30-80 gsm weight range.

All these topics can be discussed in detail at our booth #2141

Dilo is the premier builder and supplier of complete nonwoven lines for staple fibre nonwoven products. We look forward to your visit.