

DILGROUP
ENGINEERING FOR NONWOVENS

2020

We wish you a successful New Year





Ladies and Gentlemen,

Every year since 1987 Dilo has summed up at the year end the most important events within the DiloGroup, especially with regard to innovations in the sales programme and economic developments of our group. As this greeting card has always been well received, we want to keep the tradition alive, although in a more modern way by sending it in a direct and faster way by e-mail. I kindly ask for your understanding.

“Dilo-Line” in Barcelona

After years of big turnover increases, the total worldwide economy has shown a cooling trend. We all know the reasons for this development. In this environment, the ITMA 2019 in Barcelona in June was an appreciated opportunity to once again present the work of the total DiloGroup. In a short period of two and a half weeks, we succeeded in mounting a complete production line and putting it into operation with fibre. The line consisted of a revised fibre preparation unit of DiloTemafa with Industry 4.0 modules, a VQC card of DiloSpinnbau, crosslapper and needleloom of DiloMachines, all presented on a booth with floor space of 1150 m². We were “close to the customer” with about 50 employees and were rewarded with the visit of more than 6000 customers and interested parties.



*DiloTemafa bale
opener type BTDX 1600*

Numerous innovations, continued developments, but also inventions and pilot studies from our R + D department have further driven interest in the important needling technology.

Vibration chute feeder FRS-P

The modified vibration chute feeder FRS-P combines at a reduced height a fine opening stage and material box, which results in reduced work for the subsequent card. At the same time due to the improved preopening degree a better dosing in longitudinal and cross direction is possible which leads to improved homogeneity of mass in the web. The VQC card offers many configuration variants that cover all demands of web forming including random card technology.

HyperLayer

The latest version of the HyperLayer crosslapping technology realizes high precision layering technology at highest speeds. Even at a relatively small layering width of 4 m, high web infeed speeds of around 200 m/min are feasible.



FRS-P card feeder with VQC card

The focus on HyperLayer as the web forming component for modern hydroentanglement production lines was once again put into public interest.



Dilo-HyperLayer type HLSC 30/40 "NT"

Industry 4.0

The much discussed field of “Industry 4.0” was presented with individual modules and components according to their current development status and was well received. Our developments were able to convince and to set new trendsetting standards.



Installation with Industry 4.0 “Operator Assistance System”

3D-Lofter

A special highlight was presentation of the “3D-Lofter”, which allows a single web forming unit to position fibres in a controlled manner at any place in the felt plain, to form with this “3D-fibre topology” technical, stress-related parts. Numerous fields of application have already been recognized such as formed automotive parts, upholstery, apparel and shoe industry, hygiene and filter media. It is also possible to use this technology as a patterning device for floor coverings. In numerous fields of application, which use nonwovens as ready-to-use parts, 3D varied, controlled fibre mass distribution allows weight and fibre cost reduction.



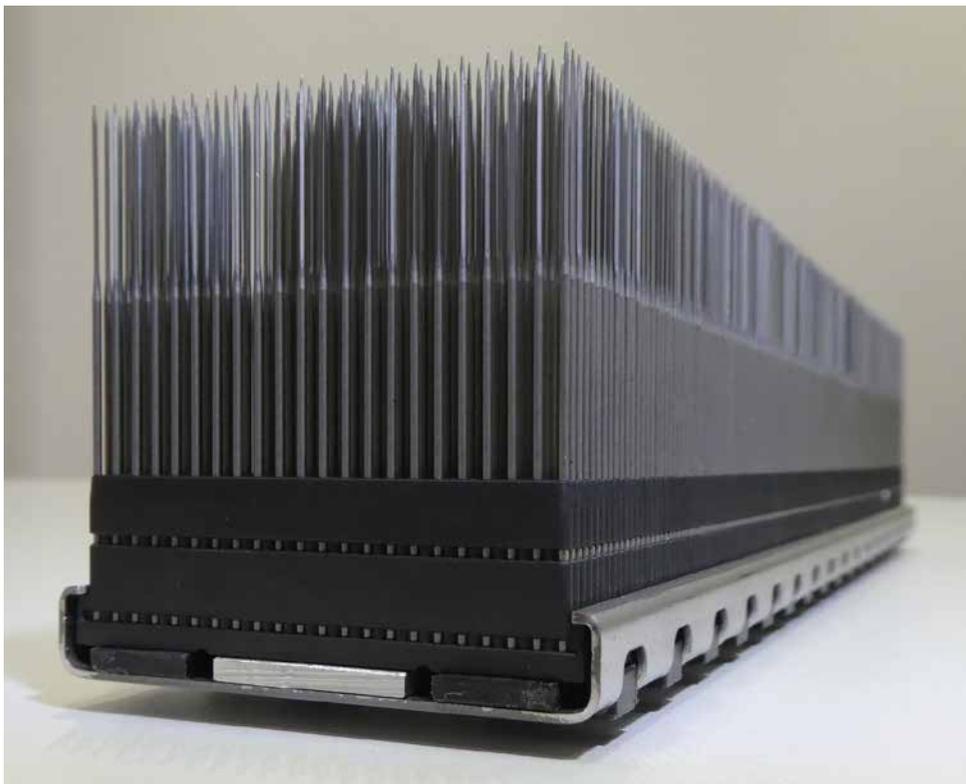
“Additive textile manufacturing” with 3D-Lofter and DI-LOOM OD-II SLC HαV 35

8000X

Our latest needle pattern development, the needle distribution scheme “8000X” which further homogenizes the stitching distribution, was integrated as a Hyperpunch variation “6000X” in the preneedleloom shown at ITMA. Needle patterns 6000X and 8000X are requested when very homogeneous needlefelts and top layers are to be produced as is necessary for automotive interior linings or artificial leather. The “8000X” represents a breakthrough after long development work and finally brings to an end the problem of needle markings in the material. No other pattern has a wider range of advance per stroke with such good stitch distribution.



Stitching plate for needle pattern 6000X



Needle modules in a module cassette

Intense needling

In further developing the “intense needling” for applications in medicine and hygiene promising solutions are evident for producing lightweight needlefelts very economically due to energy savings. Material and energy savings are decisive factors for the profitability of a nonwoven operation.

In this spirit, I send best wishes for a Happy New Year and look forward to meeting you and for continuing cooperation.

Ihr

Johann Philipp Dilo

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