



DILE GROUP

ENGINEERING FOR NONWOVENS

2024

Best wishes for a successful new year

Ladies and Gentlemen,

2023, was a a successful year for DILO despite the ongoing global economic uncertainties and the effects of recent wars. After years of intensive development, this year we succeeded in presenting MicroPunch technology, an economical alternative for the production of lightweight nonwovens in the approx. 40-100 g/m² range. MicroPunch has made it possible to produce nonwovens with a low weight per unit area without water, without gas, and with less fiber loss, thereby reducing energy consumption by approx. 75 %.

In April of this year, we presented this technology to a larger audience for the first time at INDEX and shortly afterward we were able to demonstrate the first MicroPunch line in operation at the ITMA in Milan.

The complete line was transported to Milan on a total of 18 trucks. Set up and commissioning was done in just 12 days. In addition to the three MicroPunch needlelooms, the line included fiber preparation from DiloTemafa with the new TeSeal and TeClean components, which significantly simplifies and improves the cleaning options of the bale opener for our customers. We were also able to present the ISO-Feed System, a solution for saving fibers and improving the CV value. Targeted fiber application on the flock mat can eliminate unevenness and improve overall uniformity. The modified MultiCard from DiloSpinnbau now enables automatic adjustment of the fifth worker, so that our customers can make adjustments more quickly.



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Product Development

Our new MicroPunch Line is now located in our research and development center and is available to our customers for testing and product development. Intensive needling technology offers new possibilities in product manufacturing with special surface characteristics and haptics. The application possibilities of intensively needled products go far beyond those of lightweight nonwovens for hygiene and medical applications.

In the DILO test center, we also offer extended and individual color patterning options with our 3D lofter and DI-LOUR IV- machine through targeted scattering of fibers.

I wish all customers and friends of our company a Happy New Year, good health and good fortune.



Johann Philipp Dilo



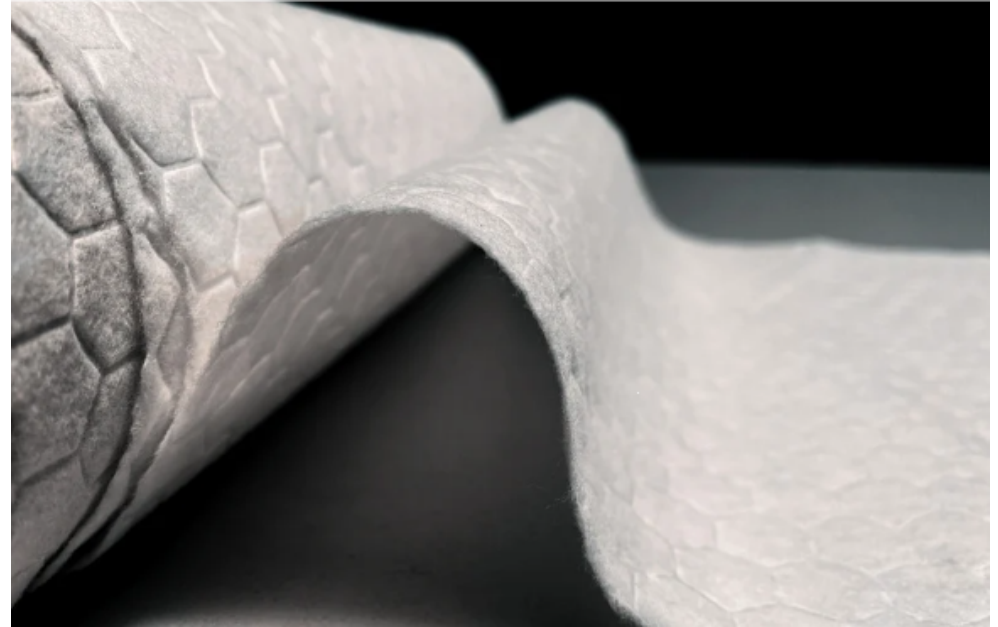
Rebekka Dilo



Riccarda Dilo

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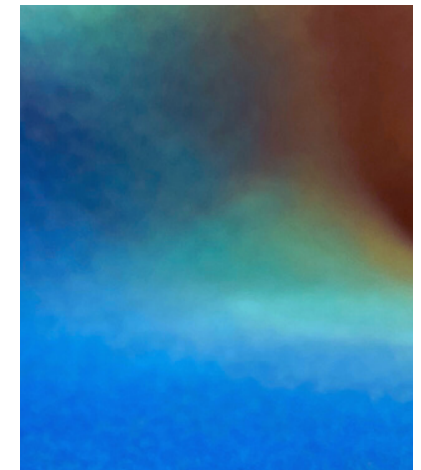
DiloGroup
P. O. Box 1551
69405 Eberbach / Germany
Phone + 49 6271 940-0
www.dilo.de • info@dilo.de



MicroPunch calendered



Colored Patterning- 3D-Lofter





DiloTeam - ITMA Mailand 2023