ITMA 2023: DiloGroup Seizes the Spotlight with Innovative MicroPunch Technology

From June 8th to 14th, ITMA 2023 was abuzz as visitors streamed to DiloGroup's booth, drawn by the fascinating showcase of their new MicroPunch technology. Spanning an area of 750 sqm, the stand, manned by 36 DiloGroup associates and external services, featured a complete production and demonstration line, extending from bale opening to end-of-line winding.



The novel MicroPunch technology, which was earlier promoted at INDEX, signifies a breakthrough in high-speed lightweight needling, promising considerable energy savings. Numerous press releases and presentations, including one at ITMA, heralded its advent.

Visitors' collective agreement on the pressing commercial and environmental concerns, including sustainability, escalating energy prices, dwindling water reserves, and the prospect of fiber material savings, spotlighted the relevance of Dilo's new MicroPunch technology. The technology particularly shines in nonwoven production within a weight range of 30 to over 100 g/sqm, offering significant savings

on electrical energy and gas heating while eliminating water consumption. An added advantage is the zero fiber loss, as trimmed material can be effortlessly recycled.

The technology's impressive cost-effectiveness was underscored – with savings possibly as high as 25% for products around 40 g/sqm, and up to 50% for those around 100 g/sqm, based on individual costs for electricity, gas, and water.

The MicroPunch line incorporated DiloTemafa fiber preparation, a BALTROMIX bale opener, latest-design carding willow and dosing opener, and the successful DiloSpinnbau MultiCard. Also integrated was the new IsoFeed system, capable of weight variation reduction, and the "variogap and speed controller", enhancing the gap and speed adjustments.

Under high-pressure timelines, the Dilo team demonstrated its prowess by installing this complex line within just 10-12 days, reinforcing an excellent atmosphere at the stand. The line will be repurposed at DiloGroup's research and demonstration center for product development and customer collaboration.



DiloGroup's ITMA demonstration's other notable feature was the introduction of "RecycloLine," a collaboration with Messrs. Dell'Orco & Villani and Technoplants. This platform aims to engineer and supply complete lines for mechanical recycling of garment waste, a critical need in the present and future textile industry.

ITMA 2023 witnessed numerous visitors exploring and discussing the features of these recycling lines with Dilo's experts, marking the event as a success for DiloGroup.