

Hammer-IMS and Dilo: An enduring collaboration set to revolutionize non-woven production line efficiency and quality control

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The recent ITMA 2023 expo showcased groundbreaking advancements in the textile industry, and one collaboration that stood out was the one between Hammer-IMS and Dilo. These two industry innovators joined forces to integrate Hammer-IMS's advanced measuring solutions with Dilo's cutting-edge Micropunch lines. The ad-hoc partnership between the two resulted in remarkable synergy, significantly improving efficiency, accuracy, and quality in the showcased nonwoven production line. Visitors at Dilo's booth had the opportunity to witness the sustainable, non-radioactive measuring system of Hammer-IMS in action providing real-time feedback to their Iso-Feed system and carding machine.



An overview on the Dilo booth at Milan's past ITMA 2023 fair



The Hammer-IMS booth, located next to the Dilo booth during the ITMA 2023 event

Past collaborations with Dilo:

Already during ITMA Barcelona back in 2019, Dilo made a solid statement by showcasing one of Hammer-IMS's measuring systems. Demonstrating their support in their innovative technology, Dilo proudly presented Hammer-IMS's non-radioactive measuring machine on their booth, immediately after the introduction of Hammer-IMS's products in the nonwoven markets. Visitors at the Dilo booth were treated to a live demonstration of real-time quality control performed by Hammer-IMS's machine with its M-Ray electromagnetic millimeter wave sensor technology to measure thickness and grammage. Years later, the two companies are neighbors at the fair ground in Milan.

Seamless integration of Hammer-IMS's quality control solutions:

Hammer-IMS and Dilo are currently carrying out commercial projects together. Thanks to the datalink between the measuring scanner from Hammer-IMS and the Dilo machines, seamless integration between the two creates a smart, added-value solution, and in this way, Dilo acts as an indirect point of sales for Hammer-IMS. By employing a collaborative approach, Hammer-IMS can address any potential challenges and develop customized solutions that seamlessly interface with the existing equipment. With streamlined installation processes and user-friendly interfaces, the transition to incorporating Hammer-IMS's measuring solutions becomes seamless and efficient.

Sustainable synergy between the two companies:

Dilo's latest Micropunch technology not only offers economic benefits but also presents an ecological advantage. The line consumes significantly less energy for the production of lightweight nonwovens compared to traditional water entanglement processes, reducing water, electricity and gas consumption by up to approx.75%. Additionally, the Iso-Feed system improves the uniformity of the nonwoven through an additional fiber feeding process before the card-infeed. For this purpose, the fiber mat is measured with a high density of heads of the Hammer-IMS system and additional fiber mass is added at locations where low fiber mass is measured. Due to the improved nonwoven uniformity, less fiber is

needed in total to reach the minimum nonwoven weight. Dilo's commitment to energy-saving production aligns with Hammer-IMS's sustainable technologies that are clean for the environment, unlike alternatives that use radioactive, nuclear measuring systems that can be harmful and require special licenses.



Big smiles on both the Hammer-IMS and Dilo sides in Milan, next to Dilo's Micropunch line equipped with a Hammer-IMS scanner.

Hammer-IMS making waves:

Hammer-IMS, with its innovative measuring solutions, has rapidly gained recognition in the textile industry. Over the years, the company has achieved notable success in international markets, attracting production companies worldwide. The integration of Hammer-IMS's non-radioactive measuring machines with Dilo's production lines has solidified a position as a strategic partner in the nonwoven market.

The collaboration between Hammer-IMS and Dilo at ITMA Milan 2023 further demonstrated the remarkable potential for advancement in nonwoven production processes. By seamlessly integrating Hammer-IMS's measuring solutions with Dilo production lines, the partnership has enhanced efficiency, accuracy, and quality in the industry. This successful collaboration is a testament to the power of synergy and innovation in driving the textile industry forward. As both companies continue to push boundaries and develop new machines, the future of nonwoven production looks promising.