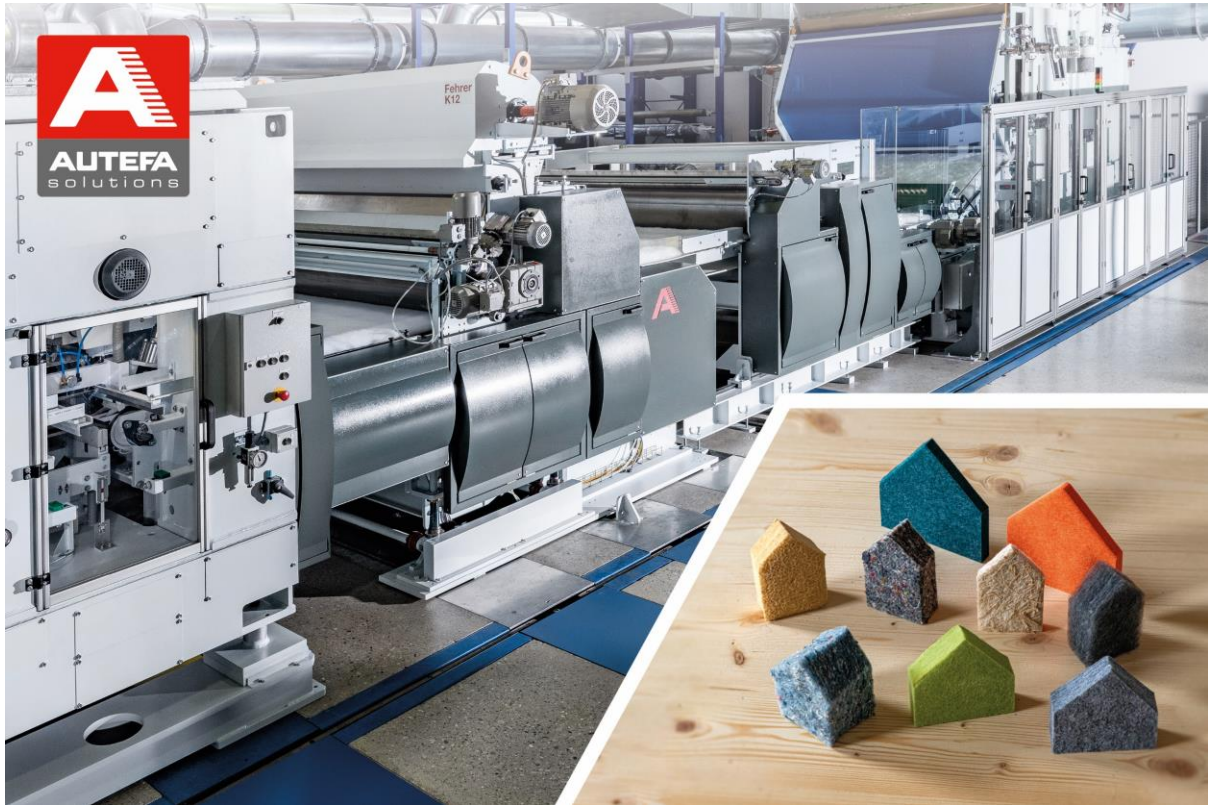


## AUTEFA Solutions: Innovating Sustainability in Fashion and Nonwovens



In the face of growing concerns about sustainability in the fashion industry, AUTEFA Solutions has emerged as a pioneer, offering innovative solutions that address the need for textile circularity and recycling of fast fashion. This report highlights some of the key solutions provided by AUTEFA Solutions and their contributions to sustainability.

### **Airlay V12/R Aerodynamic Web Forming Machine:**

AUTEFA Solutions has developed a compact and economical machine known as the Airlay V12/R, which is capable of processing various types of fibers including coir, sisal, jute, hemp, cotton, animal hair/wool, and textile waste. This machine, fed by a hopper feeder, enables the production of nonwovens within a weight range of 400 - 8000 gsm. By efficiently processing and reusing these fibers, AUTEFA Solutions promotes a more sustainable approach to textile production.

### **Needle Exchanger for Needle Punch Nonwovens Production:**

To simplify and enhance the re-needling process in needle punch nonwovens production, AUTEFA Solutions has developed the Needle Exchanger. This machine replaces the manual and risky process of inserting, exchanging, and removing needles with an automated system. The Needle Exchanger not only eliminates the risk of operator injury but also minimizes the

potential damage to needle boards. With its efficient performance and customized software system, AUTEFA Solutions ensures reproducibility and safety during each needle exchange.

### **Collaboration with PAMA Paper Machinery for Wetlaid-Spunlace Technology:**

AUTEFA Solutions has collaborated with PAMA Paper Machinery to combine fiber-based web forming, consolidation, and drying technology with wetlaid technology commonly used in the paper industry. This partnership enables the production of sustainable and cost-effective nonwovens from 100% cellulosic raw materials such as pulp, viscose, or lyocell fibers. AUTEFA Solutions' Wetlaid/Spunlace technology contributes to a world with less plastic waste by producing uniform pulp layers for optimal fiber distribution and minimizing fiber consumption.

### **State-of-the-Art Nonwoven Technology:**

As a key supplier for nonwoven technology, AUTEFA Solutions offers state-of-the-art solutions including carded crosslapped needle punch lines, aerodynamic web forming technology, thermobonding lines, and spunlace lines. These cutting-edge technologies enable efficient and sustainable nonwoven production, catering to the diverse needs of customers in various industries.

### **Conclusion:**

AUTEFA Solutions has established itself as a leader in sustainability through its innovative solutions for the fashion and nonwoven industries. By providing machinery for processing and reusing fibers, automating needle exchange processes, and collaborating to develop wetlaid-spunlace technology, AUTEFA Solutions offers sustainable alternatives and contributes to a more environmentally conscious future. With their state-of-the-art nonwoven technology, AUTEFA Solutions continues to meet the evolving needs of customers seeking sustainable solutions in their operations.