



Knit Beyond Boundaries
Overcoming industry-wide challenges stitch by stitch.



08 – 14 June, 2023
Hall 2 Booth C101

AUTEFA @ ITMA – FIBER RECYCLING SOLUTIONS FOR TEXTILE CIRCULARITY



As sustainability becomes an increasingly important consideration in the fashion industry, the demand for textile circularity is growing significantly as consumers and companies alike seek solutions to recycle fast fashion.

In response to this trend, AUTEFA Solutions offers innovative solutions designed to process and reuse various types of fibers, including reclaimed, natural and man-made materials. The compact and economical machine for processing all natural fibers such as coir, sisal, jute, hemp and cotton as well as animal hair/wool and textile waste is the Airlay V12/R Aerodynamic Web Forming Machine.

Fed by a hopper feeder, the Airlay V12/R is capable of producing nonwovens in a weight range of 400 – 8000 gsm. Re-needling of needle boards in needle punch nonwovens production must be simple, safe and efficient to avoid long downtimes and extend the life of the needle boards. AUTEFA Solutions has developed the Needle Exchanger, to meet these challenges. This machine replaces the physically tiring and risky manual process of inserting, exchanging and removing needles with an automated process that eliminates the risk of operator injury and minimizes the risk of needle board damage.

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GLOBAL NANOTECH TO SHOWCASE EXPERTISE IN DISPERSIONS AND INKJET INKS



**Dr. Dhara Choksi, Director,
Global Nanotech**

With the forthcoming ITMA 2023 being one of the highpoints at present, the team at Global Nanotech is understandably quite excited.

— “
We have been manufacturing inkjet dispersions since 2014. The pandemic enabled us to expedite our research and product development of the complete inkjet product portfolio, including dye sublimation, DTG, DTF and UV inks and their concentrates.

“Our competency lies in developing stable and compatible dispersions for all ink formulations irrespective of location, formulator’s preferences and additives. We have been a regular at FESPA events since inception but this year we will be participating in ITMA 2023. We will be showcasing our dispersions and inkjet inks this year. Our main objective in the show is to meet and acquire new customers as well as strengthen our business association with existing customers.”

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Another Step Forward to the Future



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ITMA 2023

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BRÜCKNER PRESENTS HIGHLIGHTS FOR TEXTILE FINISHING AND COATING

BRÜCKNER will show the next stenter generation POWER-FRAME SFP-4 with many new features: new electric / hydrogen-powered heating systems, intelligent software solutions for optimizing formulas, systems for heat-recovery and exhaust air purification, innovative application systems for chemicals, and newly developed machine concepts.

CO₂-free heating systems

The most important innovation of the BRÜCKNER dryer are without doubt the innovative heating systems. Driven by the energy crisis and the constant focus on energy-efficient solutions, new possibilities to combine different heating media like gas, steam, oil or electricity have been developed. In addition, BRÜCKNER also offers burners which can be operated with hydrogen in the future. These combination possibilities allow the textile finisher maximum flexibility in the choice of the energy carrier. Another exciting development are solutions for the purely electric heating of industrial ovens by means of heat pumps, which BRÜCKNER offers together with a partner. In the present situation and with a view to the future, these new types of heating offer decisive advantages: Green hydrogen and/or electricity reduce the dependence on fossil raw materials and contribute considerably to minimize the CO₂ footprint.

Smart Production Systems

Digital products and services are another highlight.

On request, new lines are equipped with various intelligent assistance systems that support the machine operator in finding the optimum machine setting for each process. A special innovation is the new simulation tool ExperTex: with the help of artificial intelligence, the desired production process of drying or heat-setting is simulated on the computer.



Different scenarios can then be compared with each other: Throughput times, energy consumption, CO₂ footprint and production costs. This innovative system offers customers considerable added value, as it allows accurate pre-calculation of orders, opens up productivity gains and/or energy savings, and permits "right-first-time production" by means of pre-optimized formulas.

Expert knowledge and years of experience in textile finishing are thus available at the push of a button. This tool and much more will be available to customers in the new myBrückner customer portal in the future. All important machine information, access to digital services, and a service system will be bundled there and can be accessed at any time.

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USTER FABRIQ ASSISTANT – ARTIFICIAL INTELLIGENCE IN FABRIC INSPECTION

Uster will introduce the latest product for fabric inspection at ITMA 2023. The Uster Fabriq Assistant is a central platform for automated processing, analyzing, and visualizing quality data from Uster fabric inspection systems. Comprehensive data, interpreted reliably, let fabric producers focus on their core tasks to drive operational excellence.

What are the real advantages created by Uster Fabric Inspection systems? Experts at Uster want users to experience the full power of the data being gathered. That's why they developed Fabriq Assistant – one data platform, as a central quality hub for all stakeholders in the mill.

The new Uster Fabriq Assistant eliminates manual data processing and speeds up decision processes significantly. Fabric manufacturers can release their product for delivery automatically based on their specific business rules without any human in the loop, which eliminates bottlenecks and increases productivity.

Automated collection, analysis and visualization

The application is a web-based tool with individual user accounts and specific dashboards. Fabriq Assistant shows a summary of quality performance from all the fabric rolls ever inspected in the mill. Information is presented – and easy to be shared with other users – as a variety of statistical analysis tools, with results in different charts, histograms or evolution trends.

This depth of analysis goes way beyond what previously could only be done manually in MS Excel! Automated data collection, visualization and analysis, as well as data processing and reporting functions, are viewed on the central data platform. It works like an expert assistant, offering the relevant quality data during and after inspection. If the user is searching for information on a specific roll, for example, just a few clicks will bring up the review dashboard. Here, all the details for that single roll are available – including defect images, defect map and list and roll statistics.

Decisions with impact

Using the Uster central platform enables managers to focus on their main task of making key decisions. Fabriq Assistant removes the unwanted workload of manual data preparation and analysis. It also provides the basis for maximum decision-making accuracy, using advanced technologies such as Artificial Intelligence (AI).

Automated features let users experience this highly flexible and customizable application as their virtual everyday assistant, enabling them to be more efficient and productive. An additional effect is increased process accuracy and security, through consistent quality decisions for grading of quality levels, post-processing, delivery release, and, most of all, avoiding claims.

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INDO TEXNOLOGY TO EXHIBIT INNOVATIVE AUTOMATIC CONE INSPECTION MACHINE

The company will showcase its automatic cone packing machine integrated with cone transport system from automatic winding, rotor or air vortex spinning machines and cone inspection system based on computer vision and AI

Coimbatore-based Indo Texnology is excitedly looking forward to participating in the ITMA 2023 trade fair to be held at Milan, Italy. The company, which has made a mark for itself in the automation and monitoring systems domains, has lined up an innovative range of products for showcasing at the event.

"Besides India most of our present customers abroad are in Bangladesh, Vietnam and Indonesia, i.e., in Asia. We are looking at expanding our presence into other markets. Therefore, ITMA will be important from that point of view. Our products have been quite well-received and we are excited to showcase our existing as well new products at the event," - Managing Director S Thirupathi.

The company will showcase its automatic cone packing machine integrated with cone transport system from automatic winding, rotor or air vortex spinning machines and cone inspection system based on computer vision and AI.



S Thirupathi, Managing Director, Indo Texnology & Jaivardhan Thirupathi, Director

"The automatic cone inspection system is something that we had launched at ITME 2022 held in India. However, that version was meant to be a retrofit on our existing cone packing systems while at the forthcoming ITMA we would demonstrate the version capable of both being used online ACP as well as a standalone cone inspection system," Thirupathi elaborated.

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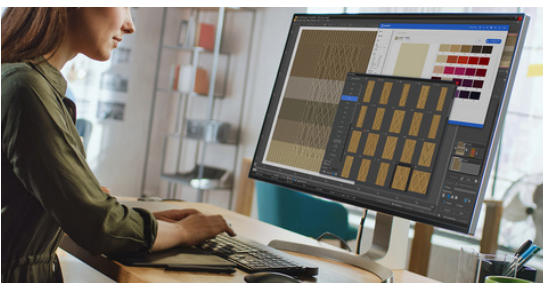
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SHIMA SEIKI'S RANGE OF PRODUCTS WITH SUSTAINABLE TECHNOLOGY

SHIMA SEIKI has consistently maintained an impressive showing at ITMA, showing something new and exciting at every edition under our guiding philosophy: "Ever Onward." For 2023, this tradition not only remains intact, but recalls ITMAs of the past through a brand-new lineup consisting of new machines and next-gen prototypes.

The Next-Generation group of machines is represented by the letter 'R,' first used in the SWG-XR WHOLEGARMENT® knitting machine launched last year in time for SHIMA SEIKI's 60th Anniversary event.



The SWG-XR name is based on the original SWG-X four-needlebed WHOLEGARMENT® knitting machine which debuted at the Milan ITMA in 1995.

At the same time it represents a renewal of SHIMA SEIKI's commitment to its customers, the industry and the environment, as all aspects of the machine were re-evaluated in terms of its purpose, the way it is manufactured, how it is used and how it impacts the environment.

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