

YIXUN MACHINERY Demonstrates Global Leading Chopped Stitch-Bonding Machine Excellence At TECHTEXTIL



Zhenjiang, Jiangsu Jul 21, 2026 ([Issuewire.com](https://www.issuewire.com)) - Danyang Yixun Machinery Co., Ltd., a specialized manufacturer of advanced warp knitting and stitch-bonding technology, showcased its technical capabilities at TECHTEXTIL, the leading international trade fair for technical textiles and nonwovens. Central to this presentation is the [Global Leading Chopped Stitch-Bonding Machine](#), an industrial solution designed for the high-efficiency production of chopped strand mats and compound mat fabrics. This equipment integrates a precision chopping device with servo-system control and electronic take-up mechanisms, allowing for the processing of glass fibers and other technical yarns into stabilized fibrous webs. By providing high-speed operation—reaching up to 1,300 r/min depending on product specifications—this machinery serves as a foundational technology for the composite material industry, ensuring uniform distribution and structural integrity in the final textile output. This technical advancement reflects the company's commitment to mechanical precision and industrial automation in the fiber processing sector.

The Evolving Landscape of Global Technical Textiles and Composite Materials

The global technical textiles industry is currently navigating a period of significant structural evolution, characterized by an increasing demand for high-performance composite reinforcements. Industry trends indicate a decisive shift toward lightweight, high-strength materials in sectors such as aerospace, automotive manufacturing, and renewable energy, particularly for wind turbine blade production. As manufacturers seek to optimize material properties while reducing production costs, the role of specialized machinery becomes paramount. The integration of electronic control systems and multi-axial knitting capabilities has become the standard for achieving the complex mechanical properties required by modern engineering. Furthermore, the industry is increasingly focused on sustainability and

efficiency, driving the development of machinery that reduces material waste and energy consumption during the fabric-forming process. These macro-trends underscore the necessity for robust, automated production lines that can handle diverse fibers, including glass, carbon, and aramid, with high degrees of precision.

In addition to the shift toward high-performance materials, the technical textile sector is seeing a rise in the integration of digital manufacturing and Industry 4.0 principles. Real-time data monitoring and precision tension control are no longer optional features but essential requirements for global competitiveness. The demand for nonwoven structures, specifically those created through stitch-bonding and warp knitting, is expanding rapidly in the infrastructure and geotechnical sectors. These fabrics are vital for soil stabilization, filtration, and reinforcement in large-scale civil engineering projects. As global infrastructure continues to modernize, the reliance on specialized textile machinery to produce consistent, high-durability fabrics will only intensify. YIXUN MACHINERY aligns its technical development with these global shifts, ensuring that its equipment meets the rigorous mechanical and environmental standards set by the international composite community. This strategic alignment allows for the creation of textiles that are not only functional but also compliant with the stringent safety and durability requirements of modern industrial applications.

TECHTEXTIL: The Global Epicenter for Textile Innovation and Collaboration

TECHTEXTIL serves as the primary global platform for these industry advancements, drawing exhibitors and trade visitors from across the entire value chain of technical textiles. Held in Frankfurt, the event focuses on the multifunctional applications of textiles across twelve distinct areas, including "Agrotech," "Buildtech," "Indutech," and "Mobitech." For companies specializing in textile machinery, TECHTEXTIL provides an essential venue to observe the latest innovations in fiber processing, nonwovens production, and finishing technologies. The fair facilitates cross-border collaboration and knowledge exchange, allowing participants to align their research and development efforts with the practical requirements of global end-users. By gathering experts in technical fabrics and functional apparel textiles, the event highlights the intersection of traditional textile craftsmanship and modern chemical engineering, setting the trajectory for the next generation of industrial material applications.

The importance of TECHTEXTIL extends beyond a mere trade display; it is a barometer for the technological health of the textile industry. It provides a unique environment where the latest mechanical engineering solutions meet the diverse needs of material scientists. For manufacturers of stitch-bonding machines, the exhibition offers a chance to demonstrate how mechanical precision can solve complex material challenges, such as bonding disparate fiber layers without the need for chemical adhesives. The focus on functional textiles at the fair—ranging from protective clothing to high-tech architectural membranes—underscores the versatility required of modern knitting machinery. This global stage is where the future of "smart" and technical textiles is defined, making it the ideal setting for demonstrating the operational excellence of high-speed production lines and specialized composite manufacturing equipment. The networking opportunities provided here are instrumental in shaping the technological roadmaps of manufacturing firms for years to come.

Engineering Excellence and Strategic Advantages of YIXUN MACHINERY

Danyang Yixun Machinery Co., Ltd. has established its presence in this competitive landscape through a commitment to technical research and high-quality manufacturing. Located in Danyang City, Jiangsu Province, the company operates a facility equipped with complete production capabilities, specializing in the design and manufacture of multi-axial warp knitting machines, biaxial warp knitting machines, and specialized stitch-bonding equipment. A core competitive advantage of the organization lies in its ability

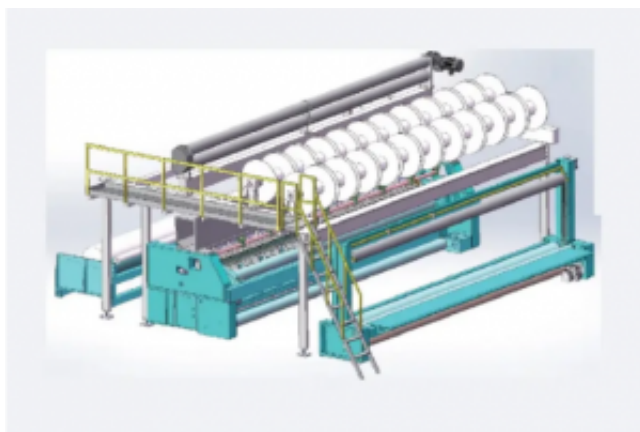
to offer customized solutions, such as the YRS3-M-F-I Type and FC series machines, which are tailored to specific industrial requirements. The company's portfolio includes essential equipment for the production of wind power cabin covers, aerospace components, and geotextiles. Beyond the primary machinery, YIXUN MACHINERY provides a comprehensive range of spare parts, including slide needles, sinkers, and needle blocks, ensuring long-term operational reliability for its global clientele.

The application scenarios for the company's products are diverse, spanning from the production of high-strength geogrids for civil engineering to the manufacturing of disposable mop fabrics and cleaning cloths via terry warp knitting technology. Customer cases demonstrate the successful deployment of these machines in various international markets, including Europe, North America, Southeast Asia, and the Middle East. For instance, the YRS3-M-H high-strength biaxial warp knitting machine is frequently utilized in infrastructure projects for geogrid production, while the carbon fiber multi-axial machines are critical for manufacturers producing multi-layer, multi-directional fabrics for the high-end composite sector. Through rigorous adherence to quality control and a focus on providing "one-stop" service—from initial concept to final installation and technical training—the company continues to support the manufacturing goals of diverse industrial partners worldwide. The integration of advanced servo-driven systems and electronic let-off mechanisms across their product line ensures that clients can achieve maximum productivity with minimal maintenance overhead.

Conclusion

In conclusion, the presence of YIXUN MACHINERY at TECHTEXTIL highlights the critical role of advanced stitch-bonding and warp knitting technology in the modern industrial landscape. By showcasing the Global Leading Chopped Stitch-Bonding Machine, the company demonstrates its ability to meet the increasing demands for high-performance composite reinforcements and technical textiles. The convergence of industry expertise, innovative mechanical design, and a deep understanding of application-specific needs allows YIXUN MACHINERY to remain at the forefront of the textile machinery sector. As global industries continue to prioritize lightweight and durable materials, the technical solutions provided by YIXUN MACHINERY will remain essential in driving the next wave of material innovation. The commitment to engineering excellence and customer-centric service ensures that the company will continue to play a pivotal role in the global supply chain for technical textiles, providing the tools necessary for the advancement of modern engineering.

For more information regarding the full range of textile machinery and industrial solutions, please visit the official website: <https://www.yixun-machine.com/>



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