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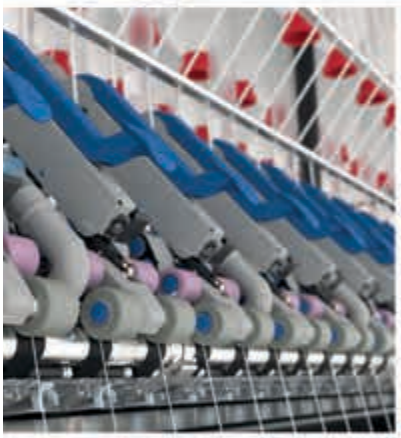
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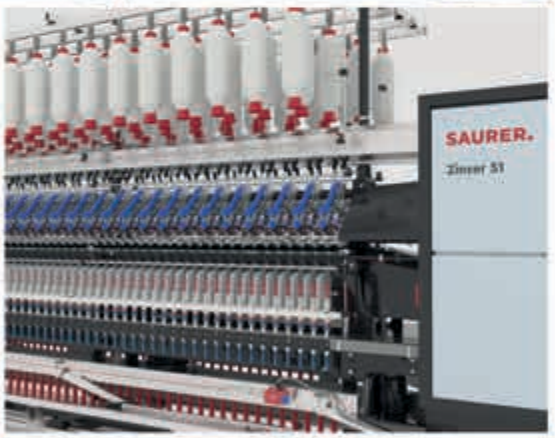














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Editorial 10

Grasim Industries Announces fresh investment of ₹3094 Crore to expand Lyocell Capacity 11

Setting Benchmark Standards in Carded Counts: LMW Delivers Industry Best Performance at M/s. Chowdary Spinners 12

ITM 2026 Concludes with Strong Visitor Interest and Robust Trade Volume Despite Global Uncertainties 15

Kipaş and Monforts: A Partnership Driving Textile Excellence Around the Clock 18

Bharat Tex 2026: Four Days That Redefined India's Global Textile Journey 19

Alok Industries Showcases End-to-End Textile Excellence at Bharat Tex 2026 21

Sutradhaar: Weaving India's Sustainable Future at Bharat Tex 2026 22

Speed Meets Versatility: KARL MAYER Sets a New Benchmark in Warp Knitting 23

From Waste to Wonder: R|Elan™ Circular Design Challenge Inspires the Future of Fashion 24

From Waste to Worth: How CL-X is Rewriting the Rules of Cotton Cleaning 25

Precision That Powers Performance: Barmag's New 6020 Ceramic Oiler Sets a New Standard for Filament Yarn Production 27

Powering the Circular Textile Economy Through Collaboration 28

Bharat Tex 2026: VPGM Eyes India as a Strategic Growth Market for the most Advanced Bi-component Yarn Production Technologies 29

Barmag and Object Carpet validate BICO BCF technology for the next generation of carpet yarns 31

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EDITORIAL

Textile Machinery Market - Lessons from the Past, Opportunities for the Future

The textile machinery market has always reflected the health and direction of the global textile industry. In recent years, the sector has experienced both remarkable growth and significant volatility. According to the latest International Textile Manufacturers Federation (ITMF) shipment statistics, saw mixed performance across machinery segments. While shipments of short-staple spindles and open-end rotors increased modestly, major categories such as weaving, knitting, and texturing machinery recorded substantial declines.

The past decade demonstrates how investment cycles, shifting production hubs, and economic uncertainty have influenced machinery demand. Asia, particularly China and India, has remained the dominant destination for textile machinery, driving modernization and capacity expansion. However, slowing global demand, rising costs, and cautious capital expenditure have recently tempered investment across several segments.

Looking ahead, the future of the textile machinery market will be shaped by automation, digitalization, sustainability, and energy efficiency. Manufacturers are increasingly seeking smart machines capable of reducing waste, improving productivity, and enabling real-time monitoring. As environmental regulations tighten and consumer expectations evolve, investments will likely favor advanced technologies rather than simple capacity additions.

The industry's next growth phase will belong to innovators who combine technological excellence with sustainable production, transforming textile manufacturing from a volume-driven business into a value-driven ecosystem.

Grasim Industries Announces fresh investment of ₹3094 Crore to expand Lyocell Capacity

- Post expansion, Total Cellulosic Staple Fibre (CSF) capacity would Surpass 1 million Tonnes Annually by 2030

Grasim Industries Limited, the flagship company of the Aditya Birla Group and a global leader in cellulosic fibres, announced an investment of ₹3,094 crore, for Phase II Lyocell capacity of 110K TPA at Harihar, Karnataka. This expansion will consist of 2 lines of 55K TPA (150 Tons per day) each. The first line is expected to be commissioned by 2028, and the second line is expected to be commissioned by 2030.

This additional capacity will complement the Phase I Lyocell plant of 55K TPA currently under construction at Harihar, which is expected to be commissioned by mid-2027. Upon completion, Grasim's total Lyocell capacity, will reach nearly 210K TPA, making it one of the largest Lyocell producers globally.

Mr. Kumar Mangalam Birla, Chairman, Aditya Birla Group, said, "The Aditya Birla Group has always demonstrated the willingness to invest ahead of the curve in sectors that will define India's future competitiveness and economic resilience. This investment carries forward that legacy. It is a vote of confidence in the scale and promise of the Indian market, aligns closely with the aspirations of Make in India, and will help position India as a more competitive and resilient force in the global textile industry." He added, "This investment also marks another significant step in Grasim's strategic expansion of advanced fibre capabilities, catering to the growing global demand for sustainable and high-performance textile materials. This fresh expansion will catapult Grasim's overall Cellulosic Fibres capacity beyond 1 million tonnes per annum, reinforcing its position as a global leader in sustainable Man-Made Cellulosic Fibres (MMCF)."

Mr. Vadiraj Kulkarni, Business Head, Grasim Pulp & Fibre added, "This expansion strengthens our position in the evolving MMCF landscape by scaling a high-value, future-ready fibre segment. By expanding Lyocell capacity, we are accelerating the shift towards high performance fibres with a lower environmental impact. Lyocell enhances our product mix, supports premium applications, and aligns with our focus on delivering differentiated, sustainable solutions to global markets."

Lyocell is a versatile, next-generation fibre widely used across apparel, home textiles, and technical textile applications. Manufactured through a highly efficient closed-loop process, Lyocell offers a compelling combination of durability, breathability, comfort, and lower environmental impact. The expansion would strengthen the Company's Specialty product portfolio and solidify its position as a key player in the global sustainable fibre industry. Grasim's Specialty portfolio share (including **Lyocell, Modal, Dope-dyed and Recycled fibres**) would increase to 35% by 2030.

Setting Benchmark Standards in Carded Counts: LMW Delivers Industry Best Performance at M/s. Chowdary Spinners

Cotton carded yarn continues to offer balance between cost efficiency and performance across spinning mills worldwide. Carded yarn plays a crucial role in meeting the demands of garmenting, knitting, and weaving sectors. With evolving expectations for consistency, strength, and reduced imperfections, mills today are under constant pressure to deliver superior yarn quality while maintaining tight control over conversion costs.

LMW Limited, has consistently been at the forefront of innovation in spinning technology, delivering integrated solutions tailored to evolving industry needs. With a deep understanding of cotton processing dynamics, LMW's latest generation ring frames are engineered to address the twin challenges of productivity and quality. The LRJ 9/SX ring frame, equipped with advanced Spinpact compacting technology, represents a significant leap in ring spinning evolution.

Located in Tanuku, Andhra Pradesh, Chowdary Spinners has established itself as a reliable producer of 100% Carded Cotton Compact yarns since its inception in 1995. With a total spindleage of 20,400, the mill specializes in producing a wide range of yarn counts from Ne 10s to 80s, catering primarily to the domestic garmenting sector. The mill also operates integrated yarn dyeing, weaving, and garmenting divisions covering the entire textile value chain and recently launched the PRING SHIRTS brand of men's shirts.



PRING | Chowdary Spinners Pvt Ltd
Cotton Yarn & Fabric Manufacturers

Under the leadership of **Shri. Ch Prasad Chowdary**, Managing Director, the company has consistently focused on modernization and process optimization to stay competitive. Their investment philosophy emphasizes adopting proven technologies that deliver measurable gains in productivity, yarn quality, and operational efficiency. The addition of LMW's latest LRJ 9/SX compact ring frame aligns perfectly with this vision.

The Modernization Success Story at Chowdary Spinners

In March 2025, Chowdary Spinners modernized the plant with LRJ 9/SX ring frame with 1200 spindles and Spinpact, specifically for processing 40s KWP cotton carded compact yarn. This installation was strategically positioned along with existing LR6/S machines with compact systems. The new LRJ 9/SX machine equipped with high-end features maximizes technological advantages in compact spinning.

The LRJ 9/SX Ring Frame delivers significant technological advantages for cotton carded compact spinning applications. Equipped with LMW's innovative 720 CC Smart Spinning Geometry, it ensures superior spinning performance, enhanced yarn quality, and improved operational efficiency. The incorporation of high-precision components such as CREDO+ Rings and HLED Spindles enables higher spindle speeds with excellent running stability. To further enhance productivity and reduce operator dependency, the machine offers advanced automation solutions as optional features, including the Bobbin Transportation

SPINNING

System (BTS), Yarn Break Sensor (YBS), and Roving Stop Motion (RSM) systems, making it a highly efficient and future-ready spinning solution.

These innovations collectively ensure better fiber control, reduced hairiness, lower imperfections, and consistent yarn strength. For mills processing a wide count range, from Ne 10s to 80s, the machine delivers unmatched flexibility and efficiency, making it an ideal choice for customers aiming to scale up productivity without compromising yarn quality.

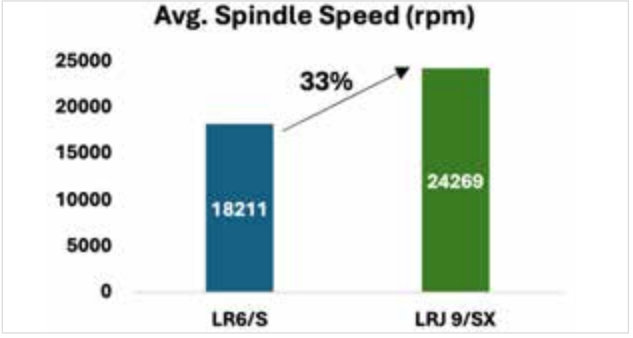
Mr. Ch Prasad Chowdary, Managing Director,

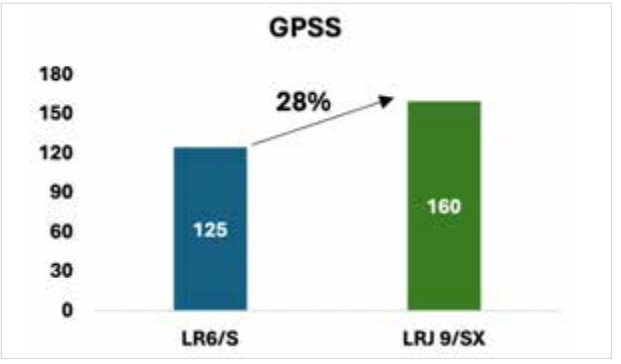
"Design Innovations in LRJ 9/SX model Ring Frame by LMW is helping us to secure our margins through significant increase in production levels & reduction of conversion costs."

Process Parameters	
Application	Cotton Carded Compact
Raw Material	MCU5
Yarn Count	Ne 40s KWP C

Performance Breakthrough - Benchmarking GPSS and enhanced quality in Ne 40s Cotton Carded Compact

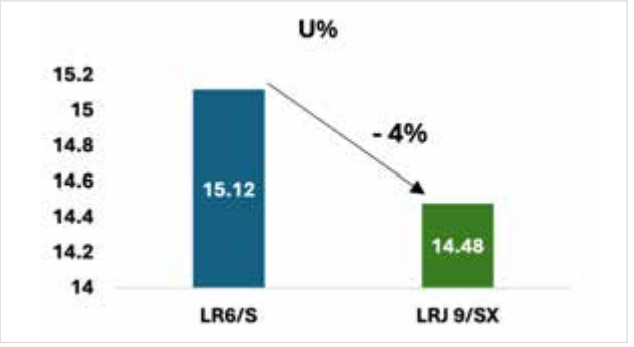
The modernization gave significant benefits. Operating at an average spindle speed of 24,269 rpm, compared to 18,211 rpm on their existing LR6/S machines, the LRJ 9/SX achieved a remarkable 33% increase in spindle speed. This translated directly into a GPSS improvement from 125 to 160, marking a productivity gain of over 28%.

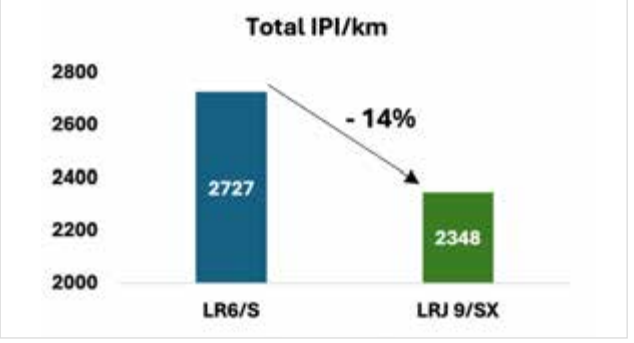




Equally impressive are the gains in yarn quality, the yarn U% shows an improvement of 4% (reduction from 15.12 to 14.48) and Total IPI/km shows an improvement of 14% (reduction from 2727 to 2348),

Department	Model	Plant Configuration
Blowroom	Bale Plucker LA23/S Line	1
Card	LC300A V3	12
Draw frame (Breaker)	LDB3	3
Draw frame (Finisher)	LDF3 / LDA/1	1 / 2
Speed frame	LF4280/SX - 160 Spindles	4
Compact Ring frame	LR6/S & LRJ 9/SX – 1200 Spindles	17

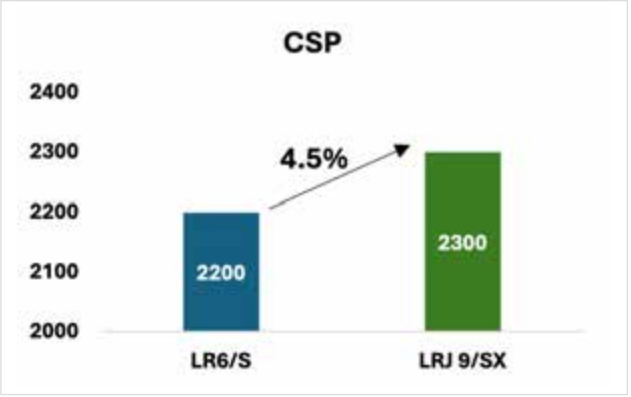


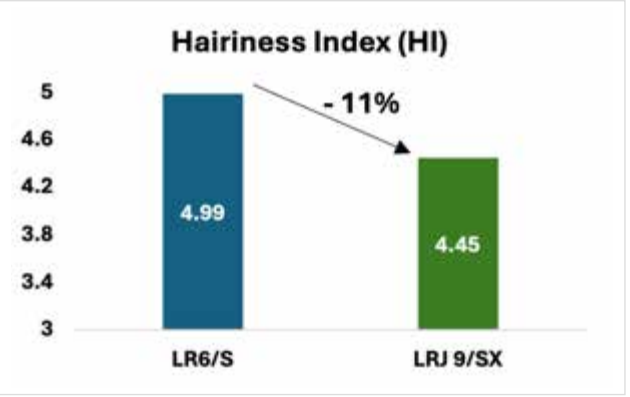


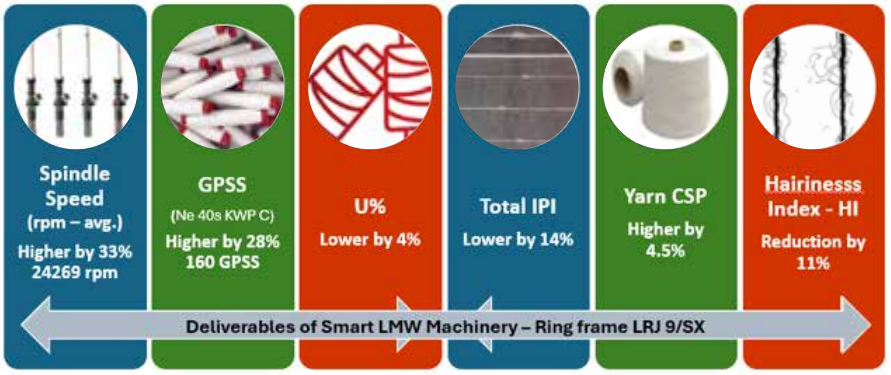
SPINNING

Further, the yarn CSP improved from 2200 to 2300 (+4.5%), while the Hairiness index saw a substantial reduction of 11%, contributing to better downstream performance in weaving and knitting.

Notably, these improvements were achieved while maintaining the same raw material, process parameters, and end-use conditions, clearly demonstrating the machine's intrinsic technological superiority.







Reflecting on the impact of the new installation, **Mr. Ch Prasad Chowdary, Managing Director,** adds, "The machine's smart features and innovative design enable consistent quality performance at higher speeds. In addition, the support from LMW & UMPESL teams are always proactive and has been instrumental in ensuring seamless installation and continuous optimization of machine performance."

This statement represents the core value delivered by the LRJ 9/SX, enhancing profitability through a combination of higher output and improved yarn quality.

A New Benchmark for the Industry

The successful deployment of the LRJ 9/SX Ring frame at Chowdary Spinners marks a significant milestone in 40s Cotton Carded Compact spinning. By delivering a remarkable 30% productivity enhancement while simultaneously elevating yarn quality standards, LMW has once again demonstrated its ability to translate technological innovation into measurable customer value. The project stands as a testament to LMW's relentless pursuit of performance, efficiency, and excellence in modern spinning.

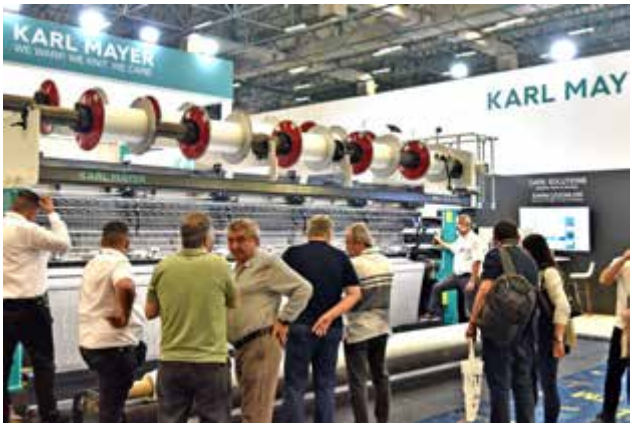
TECHNOLOGY

ITM 2026 Concludes with Strong Visitor Interest and Robust Trade Volume Despite Global Uncertainties









ITM 2026, one of the world's most prestigious organizations in the field of textile technologies, concluded with remarkable success. Held during a period of global economic fluctuations, regional uncertainties, and postponed investment decisions, ITM 2026 once again demonstrated the strength and future-oriented spirit of the textile technology sector. Welcoming 48,257 professional visitors and investors from 105 different countries, ITM 2026 provided momentum to the textile sector as an event where billions of euros worth of machinery sales and significant business collaborations were realized.

ITM 2026 International Textile Machinery Exhibition, which will be held in partnership with Tüyap Tüm Fuarcılık Yapım Inc. and Teknik Fairs Inc. and in cooperation with Textile Machinery and Accessories Industrialists Association (TEMSAD), was held at Tüyap Fair and Congress Center between 9-13 June 2026. Held across 110,000 square meters and 11 exhibition halls, ITM 2026 brought together the world's leading manufacturers of textile technologies. With the participation of more than 1,000 companies and company representatives from 59 countries, the exhibition once again demonstrated its international stature by attracting 48,257 professional visitors from 105 countries, of whom 53% were domestic and 47% were international visitors.

Visitor Influx from Diverse Regions, from Rwanda to Tuvalu

Istanbul's strategic location, transportation advantages, and lack of visa barriers were among the key factors that enhanced ITM 2026's global appeal. Industry professionals from Europe, Asia, Africa, America, and the Middle East gathered in Istanbul to explore new technologies and evaluate investment opportunities.

Many investors and industry representatives, particularly those facing difficulties attending exhibition in Europe due to visa issues, viewed ITM 2026 as a crucial platform for establishing international business connections. Professional visitors from diverse regions of the world, ranging from Rwanda and San Marino to Chile, Tuvalu, Svaziland and the Comoros, attended the ITM 2026 Exhibition.

The countries from which the visitors came are as follows: Afghanistan, Albania, Algeria, Andorra, Armenia, Austria, Azerbaijan, Bangladesh, Belarus, Belgium, Bosnia and Herzegovina, Brazil, Brunei Darussalam, Bulgaria, Canada, Central African Republic, Chile, China, Colombia, Comoros, Croatia, Czech Republic, Denmark, East Timor, Egypt Eritrea, Estonia, Finland, France, Georgia, Germany, Greece, Hungary, Iceland, India, Indonesia, Iran, Iraq, Italy, Japan, Jordan, Kazakhstan, Kosovo, Kuwait, Kyrgyzstan, Lebanon, Libya, Lithuania, Macedonia, Madagascar, Malaysia, Mauritius, Mexico, Moldova, Morocco, Namibia, Netherlands, Nigeria, Norway, Oman, Pakistan, Palestine, Peru, Poland, Portugal, Romania, Russia, Rwanda, San Marino, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Sudan, Swaziland, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Tanzania, Thailand, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkish Republic of Northern Cyprus, Turkmenistan, Türkiye, Tuvalu, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uzbekistan, Vietnam, Yemen.

The Qualified Visitor Profile Satisfied the Participants

One of the most striking aspects of ITM 2026 was not only the number of visitors, but also the fact that they had strong investment potential and consisted of decision-makers. Throughout the exhibition, a significant portion of those visiting the stands were factory owners, senior executives, investors, and professionals who play an influential role in purchasing decisions.

Participating companies stated that they had the opportunity to make direct contact, especially with businesses planning new investments, and that the majority of these meetings resulted in concrete projects and acquisition processes. Many companies emphasized that the quality of visitors was higher than in previous years and that the exhibition was extremely productive from a commercial perspective.

The Foundations for New Investments were Laid with International Purchasing Delegations

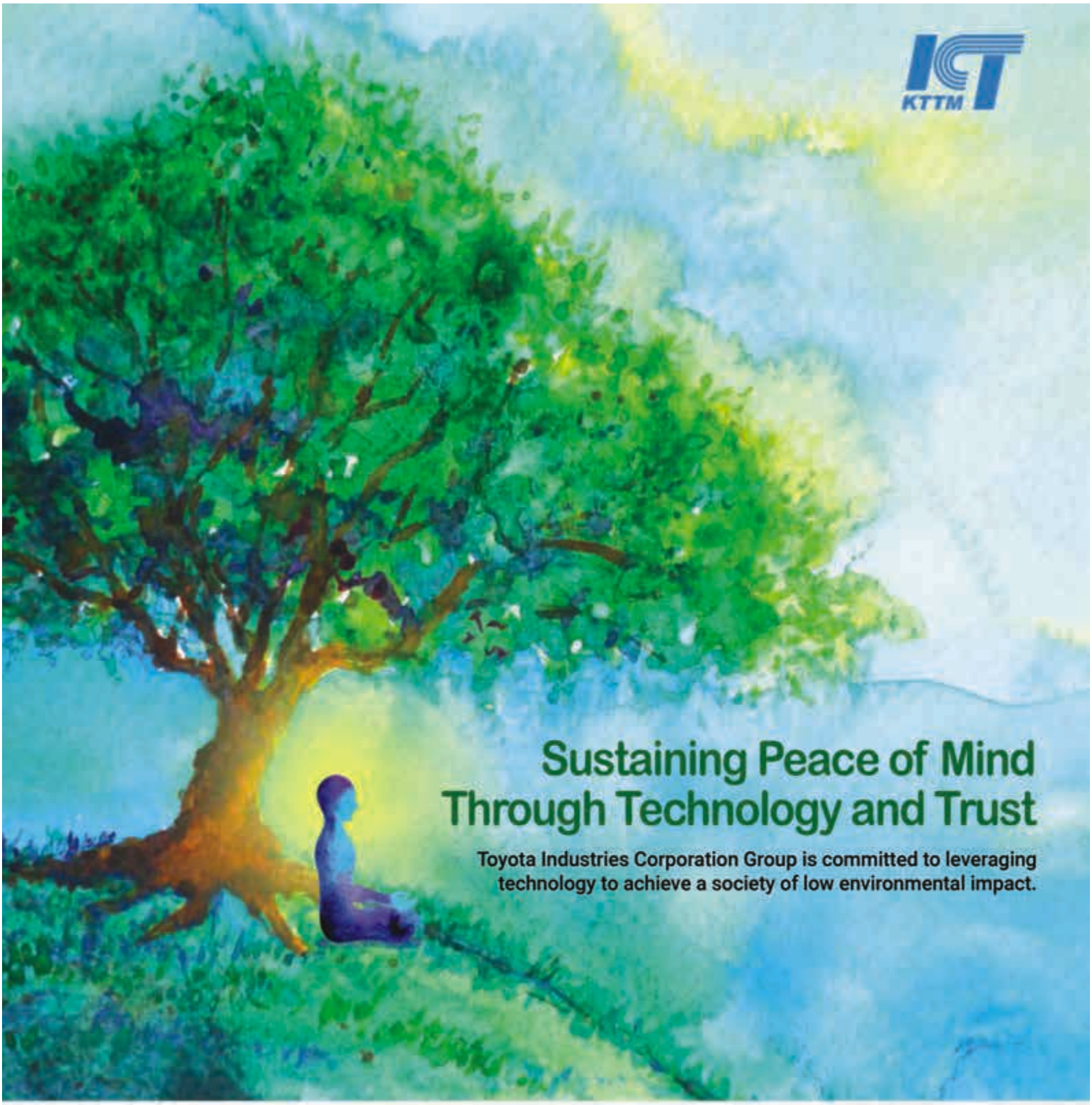
ITM 2026 transcended being merely an event showcasing technologies, becoming a prominent business platform where significant commercial deals were concluded. From the very first day, many participating companies began selling machinery, and the meetings held over the five days resulted in new investment decisions and long-term collaborations. In particular, the presidents of leading textile companies from Syria, Egypt, India, and Russia, along with their purchasing delegations, visited ITM 2026 and made machinery purchases. Solutions for all textile production processes, including weaving, knitting, spinning, finishing, garment manufacturing, denim, and digital printing technologies, were met with intense interest from investors. Participants stated that despite current economic conditions, investment appetite persists, and the exhibition, where billions of euros worth of machinery sales took place, provided significant motivation for the sector.

Future Technologies Attract Great Interest

Throughout ITM 2026, sustainability, energy efficiency, digitalization, automation, and AI-powered manufacturing technologies were among the areas that attracted the most attention from visitors. Technology launches and live machine demonstrations by leading global manufacturers guided investors in their future production plans. Industry professionals visiting the exhibition had the opportunity to examine firsthand technologies that will reduce production costs, increase efficiency, and support sustainable production.

High Demand Already for ITM 2028

The commercial activity and high visitor satisfaction generated by ITM 2026 have also brought interest in the upcoming event. Many participating companies have already requested space for ITM 2028, which will be held from June 13-17, 2028, while the exhibition is still ongoing, and pre-reservations for the event have reached remarkable levels.



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Ring Spinning Frame RX300

Kipaş and Monforts: A Partnership Driving Textile Excellence Around the Clock

When Kipaş Textile decided to expand its new dyeing and finishing plant in Kahramanmaraş, Türkiye, it once again turned to a trusted technology partner—**Monforts.** The decision reflects a long-standing relationship built on performance, innovation, and reliability.



The new Thermex continuous dyeing range at the Kahramanmaraş plant.

Founded in 1984, Kipaş has evolved into the largest vertically integrated textile manufacturer in Greater Europe, employing over 5,500 people and producing 400 tons of yarn daily, alongside millions of metres of denim and non-denim fabrics each year. To support its growing operations, the company recently installed a **Monforts Thermex continuous dyeing range** and a **Monfortex sanforizer**, both of which have been running 24/7 since commissioning.



Kipaş CEO Halit Gümüser.



The Thermex system combines precise application technology with advanced process control.

The Thermex range delivers exceptional dyeing uniformity, colour consistency and energy efficiency, while the Monfortex sanforizer ensures minimal residual shrinkage, superior fabric quality and lower production costs. According to Kipaş CEO **Halit Gümüser**, the seamless installation process and Monforts' continuous remote technical support ensured uninterrupted production from day one.

Beyond manufacturing excellence, Kipaş is also shaping the future of sustainable textiles. Through its **fibR-e** recycling platform, launched in partnership with Meltem Kimya, post-consumer polyester garments are transformed into certified filament yarns and staple fibres, advancing the transition from a linear to a circular textile economy.

Highlighting this successful collaboration, Monforts proudly showcases Kipaş as a benchmark for innovation, productivity and sustainability in Türkiye's dynamic textile industry.

BHARATTEX 2026 REVIEW REPORT

Bharat Tex 2026: Four Days That Redefined India's Global Textile Journey

The story of **Bharat Tex 2026** began on July 14 at Bharat Mandapam, New Delhi, with a powerful message—India was ready to lead the next chapter of the global textile industry. Inaugurated by Union Minister for Textiles **Shri Giriraj Singh**, the event brought together the complete textile value chain under one roof, featuring over 1,600 exhibitors, more than 20,000 products, thousands of international buyers and trade visitors, making it one of the world's largest integrated textile business platforms.



As the exhibition gathered momentum, it became evident that Bharat Tex was much more than a trade fair. It evolved into a global business destination where innovation, sustainability, investments and partnerships shaped the future of the industry. Government leaders reaffirmed India's ambition of achieving **US$100 billion in textile exports by 2030**, backed by initiatives such as PM MITRA Parks, Production Linked Incentive (PLI) schemes and expanding Free Trade Agreements.





BHARATTEX 2026 REVIEW REPORT





Innovation remained the heartbeat of the exhibition. A landmark achievement was the launch of India's first live **Digital Product Passport (DPP)** programme, enabling apparel exporters to meet Europe's upcoming sustainability and traceability regulations. Knowledge sessions, masterclasses, B2B meetings and strategic MoUs transformed discussions into business opportunities, while partnerships such as the collaboration between Bharat Tex Trade Federation and Première Vision Paris strengthened India's global textile footprint.

The third day highlighted India's manufacturing strength. States including Uttar Pradesh, Karnataka and Maharashtra showcased investment opportunities, while textile machinery leaders called for greater innovation, indigenous technology development and stronger global competitiveness. Designers, entrepreneurs and manufacturers demonstrated how India's creativity, engineering excellence and entrepreneurial spirit could build globally respected textile brands.

The grand finale shifted the focus towards the future. The unveiling of the **India Textiles & Apparel CXO Blueprint 2030** presented a strategic roadmap centred on sustainability, circularity, digitalisation, product diversification and technological excellence. The blueprint reinforced that India's next leap would be driven not merely by scale, but by innovation, responsible manufacturing and capability building.

As the curtains came down, Bharat Tex 2026 had successfully established itself as the world's premier integrated textile platform. More than an exhibition, it became a symbol of India's confidence, resilience and global leadership—connecting governments, businesses, innovators and buyers while demonstrating that the future of the global textile industry is increasingly being woven in India.

BHARATTEX 2026

Alok Industries Showcases End-to-End Textile Excellence at Bharat Tex 2026

Reinforcing its position as one of India's largest vertically integrated textile manufacturers, **Alok Industries Limited** showcased its comprehensive portfolio of textile solutions at **Bharat Tex 2026**, highlighting its capabilities across the entire textile value chain—from yarn and fabrics to finished home textiles.





With decades of manufacturing excellence, Alok Industries has established itself as a trusted global supplier by integrating every major stage of textile production under one roof. At Bharat Tex 2026, the company demonstrated how its vertically integrated operations enable consistent quality, innovation, efficiency, and sustainability while serving leading domestic and international brands.

Visitors to the Alok Industries pavilion explored the company's diverse product offerings spanning its five core business divisions, including **Home Textiles, Cotton Yarn, Apparel Fabrics, Polyester Yarn, and Knitted Fabrics.** The comprehensive display reflected the company's ability to deliver customized textile solutions for global markets while maintaining stringent quality standards.

A major attraction at the exhibition was Alok's extensive **Home Textiles** portfolio. The company presented an impressive collection of premium bed linen, sheets, pillow covers, duvet covers, comforters, quilts, towels, bathrobes, kitchen linen, curtains, and other home furnishing products designed to meet the evolving preferences of consumers worldwide. The products showcased superior craftsmanship, contemporary designs, comfort, and durability.

The company also highlighted its strengths in cotton spinning, weaving, knitting, processing, dyeing, finishing, and continuous polymerization technology for polyester yarns. These integrated manufacturing capabilities allow Alok Industries to maintain complete control over product quality while offering customers flexibility, faster turnaround times, and reliable supply.

With a strong emphasis on innovation, sustainability, and operational excellence, Alok Industries continues to invest in advanced manufacturing technologies and environmentally responsible production practices. The company's commitment to producing world-class textiles has earned it a respected position in international markets, supplying products to renowned global retailers and brands.

Bharat Tex 2026 provided an ideal platform for Alok Industries to strengthen relationships with existing customers, engage with prospective buyers, and showcase India's growing capabilities in integrated textile manufacturing. The company's participation reaffirmed its commitment to delivering innovative, high-quality textile solutions while supporting India's emergence as a leading global textile sourcing destination.

As global demand for sustainable, high-quality, and value-added textile products continues to grow, Alok Industries remains well-positioned to meet evolving market requirements through its integrated manufacturing infrastructure, diversified product portfolio, and customer-centric approach.

BHARATTEX 2026

Sutradhaar: Weaving India's Sustainable Future at Bharat Tex 2026

Every great textile tells a story. Some speak of heritage, others of innovation. At **Bharat Tex 2026**, RSWM Limited brought both together through **Sutradhaar – The Thread That Connects Tradition to Tomorrow**, transforming its pavilion into a living narrative of India's textile evolution. More than a showcase, it became a journey that linked responsible farming, advanced manufacturing and sustainable fashion under one inspiring vision.





Inspired by India's traditional storyteller, the Sutradhaar concept reflected how every stage of the textile value chain is connected through innovation, craftsmanship and sustainability. Visitors explored RSWM's integrated Farm-to-Fashion ecosystem spanning cotton, synthetic, mélange and sustainable yarns, denim, knitted fabrics and high-performance technical textiles. The company also introduced next-generation innovations including Milkweed fibre, GRAFYRA® graphene-enhanced smart yarns, protective wear solutions and sustainable collections featuring Organic Cotton, Bamboo, Circulose, SeaCell and recycled fibres. The pavilion attracted leading government dignitaries and industry leaders, reinforcing India's growing reputation as a global destination for value-added textile manufacturing.

The story, however, did not end with innovation. It reached an even greater milestone when RSWM concluded Bharat Tex 2026 by receiving the prestigious **CITI Sustainability Award for Data-Driven Sustainability Excellence**, recognising its commitment to intelligent manufacturing and responsible production. The honour reflected years of investment in real-time environmental monitoring, IoT-enabled process control, water conservation and resource optimisation that have made sustainability an integral part of the company's manufacturing philosophy.



Today, nearly **70% of RSWM's energy comes from renewable sources**, while initiatives such as Zero Liquid Discharge, biofuel-powered operations, recycling over **6.5 million PET bottles every day**, and continuous water recycling demonstrate that sustainability is measured through action rather than promises. Backed by exports to more than 70 countries, the company continues to prove that environmental responsibility and business excellence can move forward together.

As the curtains fell on Bharat Tex 2026, RSWM left behind far more than an impressive exhibition. It presented a powerful message to the global textile industry—that the future belongs to companies capable of preserving tradition while embracing technology, championing sustainability and creating innovations that inspire generations to come. Through **Sutradhaar**, RSWM has woven a compelling thread connecting India's rich textile heritage with a smarter, greener and globally competitive tomorrow.

Speed Meets Versatility: KARL MAYER Sets a New Benchmark in Warp Knitting

In the world of textile manufacturing, every breakthrough begins with a bold idea. KARL MAYER has once again raised the bar with the launch of its **HKS 4-S EL**, a next-generation warp knitting machine designed to redefine productivity and flexibility. More than just another machine, it represents the industry's pursuit of faster, smarter and more versatile manufacturing.



With an impressive operating speed of **2,500 rpm**, the HKS 4-S EL is currently the world's fastest four-bar short-stroke tricot machine, delivering exceptional production efficiency without compromising fabric quality. Its maximum working width of **280 inches**, extendable by an additional 10 inches, enables manufacturers to achieve significantly higher output while responding quickly to changing market demands.

The machine's intelligent engineering extends beyond speed. Features such as a height-adjustable fabric take-up and EL pattern drive allow rapid pattern changes and the production of both compact, high-density warp knits and mesh-like Powernet fabrics. Designed for sportswear, apparel and home textiles, the HKS 4-S EL offers manufacturers the freedom to innovate while maintaining operational excellence.





With this latest innovation, KARL MAYER once again demonstrates that the future of warp knitting belongs to technology that combines unmatched performance, flexibility and precision—empowering textile manufacturers to stay ahead in an increasingly competitive global market.

SUSTAINABILITY

From Waste to Wonder: R|Elan™ Circular Design Challenge Inspires the Future of Fashion

Every revolution begins with a bold idea. In London, the **R|Elan™ Circular Design Challenge (CDC) 2026**, in partnership with the **United Nations in India**, brought together visionary designers, sustainability pioneers and global fashion leaders with one shared purpose—to redefine fashion through circular innovation. The UK Jury celebrated creativity that transforms waste into opportunity and sustainability into a powerful design philosophy.



L to R Radhika Kaul Batra, Matthew Needham, Farouk Braimoh, Sevra Davis, Shailja Dubè and Muchaneta Ten Napel

Among an outstanding group of innovators, **RWRK STUDIO by Farouk Braimoh** emerged as the United Kingdom finalist, earning recognition for its creative approach to converting industrial textile waste into contemporary fashion. Competing alongside exceptional designers focused on zero-waste design, modular production, garment reconstruction and responsible material use, the finalists demonstrated that the future of fashion lies in innovation with purpose.



L to R Matthew Needham, Shailja Dubè, Muchaneta Ten Napel, Dorota Bojanowska, Farouk Braimoh, Tyler von Greenston, Porscha Hill, Sevra Davis, Heather Martin, Radhika Kaul Batra



Mr. Rakesh Bali and Farouk Braimoh (Founder RWRK STUDIO)

Supported by Reliance Industries, the United Nations in India and Lakmé Fashion Week, the challenge continues to grow into a global movement that nurtures emerging talent while accelerating circular business models. The UK finalist will now advance to the Grand Jury at the United Nations Headquarters in New Delhi before showcasing the collection during Lakmé Fashion Week x FDCI.

More than a competition, the R|Elan™ Circular Design Challenge is inspiring a new generation to prove that fashion can be beautiful, commercially viable and environmentally responsible—all at the same time.

From Waste to Worth: How CL-X is Rewriting the Rules of Cotton Cleaning

Sometimes, innovation is not about creating something new. It is about discovering value where others see waste.

The story of Trützschler's CL-X is a powerful example of how technology can unlock hidden opportunities across the cotton value chain, transforming operational challenges into measurable business gains.

The Beginning: A Challenge Hidden in Plain Sight

Every year, cotton gins process vast quantities of seed cotton. After cleaning and separation, cotton fibers move to spinning mills while seeds and waste are sold separately. Yet a significant amount of valuable fiber often remains trapped within the waste stream, reducing its economic potential.

What if those fibers could be recovered before they were lost?

That question opened the door to a new application for the s featured technology, the CL-X pre-cleaner.

A Breakthrough Beyond the Spinning Mill

Originally established as a highly effective pre-cleaning solution in blowroom lines, the CL-X has built a strong global reputation through hundreds of installations that have consistently delivered improved cleaning efficiency, reduced waste, higher productivity, and lower energy consumption.

Now, its impact is extending beyond spinning preparation and into cotton ginning.

Installed after the ginning machine, the CL-X enables more effective separation of usable fibers from trash, helping customers recover valuable material that would otherwise leave the process as waste. The result is greater fiber yield, reduced waste volume, and increased economic value from the same raw cotton input.

The Brazil Success Story

One Brazilian cotton processor demonstrated the true potential of this approach.

By integrating the CL-X into its ginning operation, the company was able to further separate waste material and recover high-quality fibers at an early stage of the process. This reduced transportation requirements and improved the value derived from recovered fibers. The business impact was so compelling that the customer proceeded with orders for four additional CL-X machines.

This is more than a machinery upgrade. It is a shift in mindset: turning waste into a resource.



The CL-X creates value beyond the spinning mill.



The CL-X enables significantly more effective fiber recovery



Pre-Cleaner CL-X: Delivering outstanding cleaning efficiency across diverse applications.

Proven Excellence in Traditional Applications

The innovation story does not stop at ginning.

In Vietnam, customers reported lower waste levels, improved yarn quality, and approximately 40% lower power consumption compared to previous cleaning solutions. These improvements translated into greater operational efficiency and sustainability advantages.

In Türkiye, a spinning mill replacing a competitor's machine with the CL-X achieved significantly lower waste, reduced energy consumption, improved yarn quality, and a more stable blowroom process. The results were strong enough to encourage further machine upgrades.

Technology That Thinks Ahead

At the heart of the CL-X is the WASTECONTROL system, which continuously monitors trash content and raw material quality using real-time data. When valuable fibers are detected in waste, the system recommends optimized settings to minimize fiber loss and maintain high cleaning performance.

This combination of intelligence, efficiency, and adaptability is what enables CL-X to deliver value across diverse applications.

The Bigger Lesson

The best innovations do not simply improve processes.

They challenge assumptions.

The CL-X demonstrates that opportunities for growth often exist in places we overlook. By recovering hidden value, reducing waste, lowering energy consumption, and improving productivity, it shows how smart technology can create economic and sustainability benefits simultaneously.

Inspiration

"Innovation begins when we stop asking how to do things better and start asking what value we are leaving behind."

FILAMENT TECHNOLOGY

Precision That Powers Performance: Barmag's New 6020 Ceramic Oiler Sets a New Standard for Filament Yarn Production

In textile manufacturing, true innovation is often measured in microns, milliseconds, and consistency. Barmag's new 6020 Ceramic Oiler proves that precision engineering can transform yarn quality, process stability, and production efficiency into lasting competitive advantages.

Every remarkable textile begins with a single filament.



Designed specifically for PA6 and PA6.6 applications: The new Barmag Type 6020 ceramic oiler.

Invisible to the eye yet critical to performance, every filament carries the promise of quality. But delivering flawless yarn, especially in demanding low-titer applications, requires more than advanced machinery—it demands engineering precision at every stage.

Recognizing this challenge, **Barmag** has introduced the **Type 6020 Ceramic Oiler**, a solution designed specifically for PA6 and PA6.6 yarn production. Rather than reinventing the spinning process, Barmag focused on refining one of its most crucial elements: the precise and uniform application of spin finish.

The result is a technological breakthrough that enhances yarn quality while simplifying production. Its integrated ceramic shaft, optimized yarn guidance, and filament-friendly design ensure uniform oil distribution, eliminate common operational issues, and significantly reduce spray-off. The outcome is smoother processing, fewer yarn breaks, improved operational reliability, and consistently superior yarn quality.

What truly validates innovation is performance on the production floor.

Trials at international customer facilities demonstrated spray-off-free processing of PA6 and PA6.6 POY yarns, approximately **23% higher spin-finish application**, and exceptional stability even in highly demanding PET POY full-dull flat yarn production. In direct comparisons with competing solutions, the 6020 Ceramic Oiler stood out as the only system delivering stable performance without loops or filament defects.

This achievement reflects a broader philosophy shaping modern textile manufacturing: precision is no longer simply about product quality—it is about productivity, sustainability, operational confidence, and long-term competitiveness.

With the launch of the **6020 Ceramic Oiler**, Barmag once again demonstrates that meaningful innovation is not always about building larger machines. Sometimes, the greatest transformation begins with perfecting the smallest component—because when every filament performs flawlessly, the entire industry moves forward.

TECHNOLOGY

Powering the Circular Textile Economy Through Collaboration



The future of textile recycling will not be shaped by individual breakthroughs alone—it will be built through collaboration. The 2026 IRG Networking Day demonstrated that when industry leaders, researchers, and technology innovators unite, sustainability becomes a shared journey rather than a distant goal.

Every transformation begins with a conversation.

The textile industry stands at a defining moment. Faced with growing environmental responsibilities, evolving regulations, and increasing demand for circular solutions, the path forward cannot be walked alone. It requires partnerships that transcend company boundaries and inspire collective innovation.

That spirit came alive at the **Industry Research Group (IRG) Polymer Recycling Networking Day 2026**, hosted at **EREMA's Technical Centre in Ansfelden, Austria.** More than a gathering of experts, it became a meeting of minds united by a common purpose—to build a sustainable future for textiles through recycling, innovation, and collaboration.

Throughout the event, industry leaders, researchers, technology providers, and manufacturing specialists engaged in meaningful discussions on technological advancements, market developments, and the rapidly evolving political and regulatory landscape. Contributions from **Zschimmer & Schwarz, Volkswagen Group Innovation, STRÄHLE+HESS**, and the **Technical University of Leoben** enriched the dialogue, while support from partners including **Bekaert, EREMA, Barmag, Stadler Anlagenbau, Technip Energies, Fibrant, BASF,** and **Remondis** highlighted the strength of collaborative innovation.

The visit to EREMA's Technical Centre transformed ideas into reality, allowing participants to witness advanced recycling technologies in action. It reinforced an important truth: sustainability is no longer a vision confined to research laboratories—it is becoming an industrial reality driven by shared expertise and practical solutions.

The IRG Networking Day was more than an annual event. It reflected the growing belief that the future of textile recycling depends on collective action. Every discussion, every partnership, and every shared insight strengthens the foundation of a circular textile economy.

The journey toward sustainability is not defined by competition. It is defined by cooperation. And when an entire industry moves forward together, innovation becomes the strongest thread weaving the future of textiles.

Bharat Tex 2026: VPGM Eyes India as a Strategic Growth Market for the most Advanced Bi-component Yarn Production Technologies



Global Longsheng Machine Co., Ltd. (VPGM) is a leading high technical engineering supplier of the most advanced and globally certified Bicomponent (composite) and Homo fiber machinery and complete production solutions, either filament and staple fiber. The company specializes in high-performance extrusion (spinning) lines for PET, PA (Nylon), TPU/TPE, and bi-component monofilaments, monofilament, PP (Polypropylene), PE (Polyethylene) and other special polymers, in a way that serving customers across Asia, Europe, the Americas, the Middle East, and Africa. Its technologies are widely used in the production of mostly apparel textile, artificial leather, bedding products, automotive, interior, upholstery etc. With a strong focus on certified quality, innovation, automation, and cost/energy - efficient manufacturing. VPGM continues to support customers in enhancing productivity, product quality, and sustainability.

Q1. Bharat Tex 2026 has attracted global technology leaders. How do you view the international Bi-component yarn market today?

Charles Park: The global Bi-component yarn industry is experiencing significant transformation according to high growth in stretch. Demand is increasing mostly in apparel textile with strong benefits vs. spandex in comfort stretch market. Manufacturers are investing in smart, cost/energy-efficient production technologies that deliver certified quality and improved productivity while reducing operating costs. Sustainability and product quality are becoming key competitive factors, and we believe advanced technology will play a major role in shaping the industry's future.

Q2. Asia continues to be the world's manufacturing powerhouse. What opportunities do you see in the Asian market?

Charles Park: Asia remains the fastest-growing region for Bi-component yarn production. Countries such as China, India, Vietnam, Indonesia, Thailand, and Bangladesh continue to expand their manufacturing capabilities. We are

seeing increasing demand for high-performance and specialty Bi-component yarn, including products made from recycled and advanced polymer materials. VPGM is committed to supporting Asian manufacturers through globally certified and customized machinery, technical expertise, and continuous innovation.

Q3. India is positioning itself as a global textile and manufacturing hub. How important is the Indian market for VPGM?

Charles Park: India represents one of our most strategic growth markets. The government's strong emphasis on manufacturing, apparel and technical textiles, infrastructure development, and export competitiveness is creating tremendous opportunities. Demand is significantly rising for Bi-component yarn used mostly in apparel textile, artificial leather, bedding products, automotive, interior, upholstery etc. Indian manufacturers are increasingly investing in modern extrusion spinning technologies, and we see excellent long-term potential to strengthen our presence and partnerships in the country.

Q4. VPGM offers extrusion lines for mostly PET Bicomponent and PA (Nylon), TPU/TPE, PP, PE, and Bi-component and homo filament and staple fiber and monofilaments. What differentiates your technology?

Charles Park: Every polymer requires specialized processing expertise. Our engineering team has developed extrusion spinning systems that provide globally certified quality, excellent process stability, precision temperature control, intelligent automation, and cost/ energy efficiency.

Our solutions include:

- The most advanced engineered process and highly durable and reliable equipments.
- Globally certified quality output production system
- The highest cost competitiveness
- World wide all successful references

Our philosophy is to deliver complete producing solutions that help customers to deliver globally certified quality, improved efficiency, reduced energy consumption and produce world-class products.

TECHNOLOGY

Barmag and Object Carpet validate BICO BCF technology for the next generation of carpet yarns

BICO BCF yarn delivers impressive performance in field testing

In a joint development project with other partners, Barmag and Object Carpet have successfully tested BICO BCF yarn in the carpet manufacturing process. The results show that this innovative yarn technology offers significant performance advantages and opens up new possibilities for recycling-oriented carpet constructions.

These trials marked an important developmental milestone for the carpet industry. For the first time, the bicomponent technology—already known from other synthetic fiber applications—was successfully transferred to the BCF process and validated across the entire carpet value chain. The trials demonstrate the potential of a new class of yarn that combines improved performance characteristics with new possibilities for modern carpet constructions.

More volume, elasticity, and performance

"The tests show that a BICO BCF carpet offers more volume, high elasticity, and proven heavy-duty performance compared to standard carpet yarn. The PET-based material combination also enables recyclable carpet concepts," says Product Manager Markus Reichwein, summarizing the test results.

Proven technology meets new applications

The yarn was manufactured on a Neumag S8 BCF line equipped with a BICO spinning beam. The principle of bicomponent yarn is already well-established in other synthetic fiber spinning processes—what is new, however, is its successful integration into the BCF process. Due to the differing shrinkage and elongation properties of the polymers used, the unique material combination causes the yarn to self-crimp, thereby creating its characteristic voluminous structure.

The successful trials on a Neumag S8 BCF system now demonstrate that this approach can also be implemented on an industrial scale for the carpet industry. Likewise, all subsequent process steps— from cabling and heat setting to tufting and coating—consistently yielded good results.

Impressive results throughout the entire process chain

After heat setting, the yarn exhibited pronounced bulk combined with high elasticity. The material also performed well in the tufting process: despite the increased titer, the yarn could be processed without any problems. Thanks to the yarn's elasticity, it was also possible to produce more running meters of raw fabric than initially anticipated.

Furthermore, the yarn is characterized by its good coverage of the substrate. Process reliability was further confirmed during the coating process—both woven and knitted fabrics could be processed.

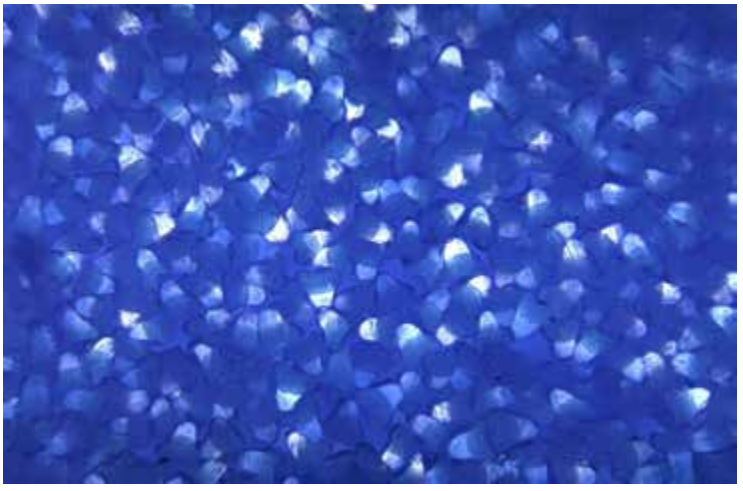
Successful quality testing for continuous use

The developed carpet constructions were extensively tested, including chair-castor and Vettermann tests in accordance with DIN EN 1307. Result: All constructions are suitable for continuous use in commercial settings and

achieved a wear class of up to Class 33, depending on the carpet construction.“The results impressively demonstrate that BICO BCF technology can not only be reliably integrated into existing production processes but also offers significant advantages in product performance,” said Markus Reichwein.

A future-proof solution for a wide range of applications

The overall conclusion of the tests is clear: BICO BCF yarn impresses with its high opacity, excellent processing properties, and strong performance. The technology thus offers a promising solution with new options for developing high-performance and differentiated products for carpet manufacturers—in both the residential and commercial sectors. The successful industrial validation demonstrates that BICO BCF is not only technically feasible but also has the potential to shape future carpet constructions in a sustainable way.



Filament cross-section of BICO BCF 70% PET / 30% PBT.



The yarn was produced on a Neumag S8 BCF system with a BICO spinning beam.

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