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Italian Textile Technology in China: Advancing Productivity, Sustainability and Innovation



Mr. Marco Salvadé
President
ACIMIT
Association of Italian Textile Machinery Manufacturers
Via Tevere 1, 20123 Milano (ITALY)
TEL: +39 02 46.93.611
E-MAIL: info@acimit.it

How do you assess the current and future opportunities for Italian textile machinery and technology in the Chinese market?

China remains a strategic market for the Italian textile machinery industry and one of the leading destinations for our technology worldwide. In the first half of 2026, China was the main destination for Italian textile machinery exports, with sales amounting to approximately €100 million, following €153 million in 2025.

While these figures reflect an adjustment in current investment levels, we should look beyond short-term fluctuations. China remains at the heart of the global textile manufacturing industry, and the ongoing technological evolution of its production system continues to create significant opportunities for Italian machinery manufacturers.

In particular, we see strong potential in those areas where Chinese textile companies are increasingly seeking to upgrade their production processes: automation, digitalisation, higher productivity, energy efficiency and more sustainable manufacturing.

Italian manufacturers are well positioned to support this transformation thanks to a highly specialised and diversified technological offering, combining innovation, flexibility, reliability and tailor-made solutions. I therefore believe that China will continue to be a key partner for our industry, especially for companies capable of providing advanced technologies with a clear impact on production efficiency, product quality and sustainability.


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TECHNOLOGY

What are the key requirements of Chinese textile manufacturers today in areas such as automation, digitalisation, productivity, energy efficiency and sustainability?

The Chinese textile industry has reached a high level of technological maturity, and this is also reflected in the increasingly sophisticated requirements of local manufacturers. Today, investment decisions are not simply about increasing production capacity, but increasingly about improving the overall efficiency and competitiveness of the manufacturing process.

Automation and digitalisation are central to this transformation, together with technologies capable of increasing productivity and ensuring consistently high product quality. At the same time, energy efficiency and sustainability are becoming increasingly important, with manufacturers looking for solutions that can optimise the use of resources and make production processes more efficient.

This evolution is particularly relevant for Italian textile machinery manufacturers. Our industry has traditionally built its competitiveness on continuous R&D, technological innovation, flexibility and close cooperation with customers. This enables Italian companies to respond rapidly to specific production requirements and to develop customised, high value-added solutions.

For a sophisticated market such as China, I believe this ability to combine advanced technology with tailor-made solutions represents one of the main competitive strengths of Italian textile machinery.

Which technologies, machinery or innovations will your company highlight for the Chinese market at ITMA ASIA + CITME 2026?

As ACIMIT represents the Italian textile machinery industry as a whole, rather than a single manufacturer, at ITMA ASIA + CITME 2026 we will highlight the broad and diversified technological capabilities of our member companies across the entire textile production process.

The composition of our exports to China clearly reflects this technological breadth. In the first half of 2026, spinning machinery accounted for 38% of Italian textile machinery exports to the Chinese market, followed by accessories at 32% and finishing machinery at 25%, alongside technologies for weaving, knitting and other textile processes.

Beyond individual machinery categories, the common denominator of the Italian presence at ITMA ASIA + CITME will be innovation. Italian manufacturers will showcase advanced solutions aimed at increasing automation and productivity, supporting the digital transformation of production processes and improving energy efficiency and sustainability.

Our objective is to demonstrate that Italian manufacturers can offer textile companies not simply machinery, but advanced and highly specialised technological solutions capable of combining productivity, flexibility, quality and sustainability.



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Results of the 40th ITMF Global Textile Industry Survey

Slight improvement, but the textile industry remains under pressure

The 40th ITMF Global Textile Industry Survey (GTIS), conducted from 21 to 29 September 2026, shows a slight improvement in the global business situation, to -23pp, well above the November 2023 low of -46pp. Conditions nevertheless remain weak, in what has become a new normal of high uncertainty. Only South Asia (+13pp) and Africa (+9pp) are positive, while Europe (-36pp), South America (-44pp) and North & Central America (-56pp) report the weakest conditions. Along the value chain, the two ends are doing better than the middle. Fibre producers (+17pp) are the only positive segment, while spinners (-33pp) and finishers (-42pp) lag. Textile machinery manufacturers (-35pp) continue to suffer from companies' reluctance to invest.

KEY HIGHLIGHTS

Global business situation improves to -23pp (from **-46pp**) in Nov 2023

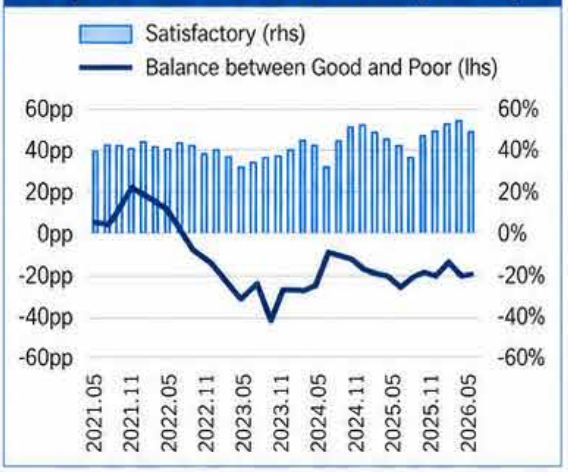
South Asia (+13pp) **and Africa** (+9pp) are positive

Europe (-36pp), South America (-44pp) and North & Central America (-56pp) report weakest conditions

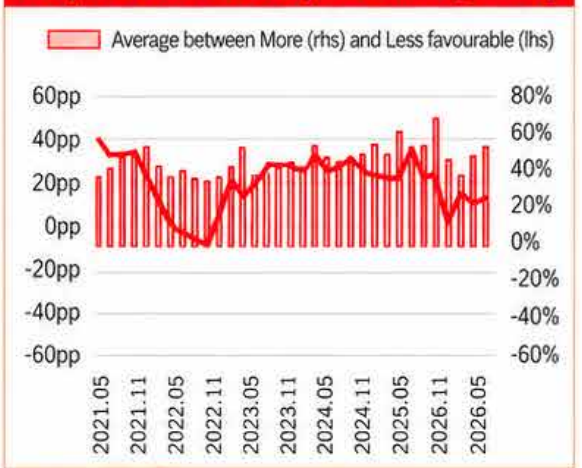
Fibre producers (+17pp) are the only positive segment

Spinners (-33pp), finishers (-42pp) and machinery manufacturers (-35pp) remain under pressure

Graph 1: Business situation [World]



Graph 2: Business expectations [World]



Source: 8th-40th ITMF GTIS (40th: 21-29.09.2026) – last data point = Sept 2026

Business expectations improve, but optimism varies

Business expectations for the next six months improved to +19pp, in sharp contrast to the current situation. However, 46% of participants expect no change, a sign that the optimism rests more on hope than on concrete signals. Africa (+59pp) is by far the most optimistic region, while East Asia (-20pp) and Southeast Asia (-6pp) remain pessimistic. Fibre producers (+67pp) are the most confident segment.

Order intake remains weak

Order intake edged up to -24pp but remains weak, and South America has fallen to a record low of -69pp. Rising costs and inflation make a significant recovery in the coming months unlikely. The global order backlog shortened slightly to 2.3 months, within the range of 2 to 2.5 months it has held since mid-2023, as most companies work on confirmed orders only. Capacity utilisation rose to 71%, above the November 2023 record low of 68% but still well below the levels above 80% seen before late 2022.

Weak demand is the main concern

Weak demand remains the main concern, cited by 56% of participants. Cost-related concerns are rising, led by high raw material (42%) and energy prices (41%), which have pushed inflation up again since the war in Iran. Concern about geopolitics has eased to 36%, from 46% in July. In response to US tariffs, companies are mainly diversifying into non-US markets (29%), investing in automation and efficiency (23%) or absorbing the higher costs (23%).

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German Textile Machinery in the Chinese Market: Challenges, Opportunities and Innovation



Interview Partner: Dr. Harald Weber, Managing Director, VDMA Textile Machinery Association, Germany

1. How do you assess the current and future opportunities for German textile machinery and technology in the Chinese market?

China remains a key market for German textile machinery and technology, although the competitive environment has become significantly more challenging. In 2025, China was the largest export destination for German textile machinery, with exports worth around €540 million. Added to this are the German companies that manufacture locally in China. This underlines the continuing importance of the Chinese market for our industry.

Looking ahead, we see opportunities particularly where Chinese textile manufacturers invest in high productivity, automation, digitalisation, energy and resource efficiency, and more sustainable production processes. German manufacturers are well positioned in these fields with highly efficient and reliable machinery, strong engineering and consulting expertise, and solutions for smart manufacturing and the circular economy. At the same time, domestic Chinese machinery suppliers are becoming increasingly competitive, including in higher-end segments. For German suppliers, the key will therefore be to combine technological leadership with solutions tailored to customers' specific requirements and a convincing return on investment.

2. What are the key requirements of Chinese textile manufacturers today in areas such as automation, digitalisation, productivity, energy efficiency and sustainability?

Chinese textile manufacturers are increasingly looking for solutions that combine high productivity with lower production costs and greater flexibility. Automation and digitalisation are becoming essential to improve process stability, ensure reproducible quality and address the growing need for efficient operation. Integrated production data, intelligent process monitoring and AI-supported solutions can help manufacturers optimise processes, reduce downtime and make better use of machinery and resources.

At the same time, energy and resource efficiency are key requirements. Technologies that reduce the consumption of energy, water, chemicals and raw materials while maintaining high product quality can deliver both economic and environmental benefits. Sustainability and circularity are also gaining importance, increasing demand for machinery capable of processing recycled materials, reducing waste and supporting greater transparency and traceability throughout the textile value chain.

3. Which technologies, machinery or innovations will your company highlight for the Chinese market at ITMA ASIA + CITME 2026?

The exhibiting VDMA member companies will cover nearly all different machinery chapters along the textile value chain including spinning and man-made fibres, nonwovens, weaving, braiding, knitting & warp knitting, finishing & dyeing as well as technologies for textile recycling and processing of recycled material.

Particular attention will be given to automation technologies, digital manufacturing solutions, intelligent process monitoring systems, and machinery designed for highly efficient and flexible production.

Sustainability-related innovations will be another key focus area. Visitors can expect to see technologies that contribute to lower energy and water consumption, reduced waste generation, improved resource utilization, and enhanced circularity. Recycling technologies, machinery for processing recycled fibers, and solutions supporting traceability throughout the supply chain are becoming increasingly important.

The VDMA members exhibiting in Shanghai are looking forward to welcoming large numbers of visitors from the Asian markets.

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Swiss Textile Machinery in China: Innovation, Competitiveness and the Road Ahead



Cornelia Buchwalder
Secretary General Swiss Textile Machinery

1. How do you assess the current and future opportunities for Swiss textile machinery technology in the Chinese market?

China is the world's largest textile and apparel manufacturing market and therefore remains of fundamental importance to the Swiss textile machinery industry. Many Swiss companies have been active in China for decades and have established local production, sales and service organisations. The importance of the market therefore goes far beyond machinery exported directly from Switzerland.

At the same time, the competitive environment has changed significantly. Chinese textile machinery manufacturers have made substantial technological progress, and the gap to international technology providers has narrowed considerably. Combined with competitive costs, strong local supply chains and proximity to customers, this technological progress creates an increasingly demanding environment for Swiss manufacturers. Maintaining a technological lead can therefore no longer be taken for granted.

Continuous innovation is essential. Swiss companies need to remain a step ahead in areas where specialised know-how, precision, reliability and advanced process technology create measurable added value. This includes intelligent automation and digitalisation, higher productivity and process stability, reduced energy, water and raw-material consumption, as well as technologies for new materials, recycling and high-value textile applications.

China will therefore remain a highly important market for Swiss textile machinery. Future opportunities will increasingly depend on the ability to anticipate changing customer requirements and to provide technological solutions that deliver clear added value over the entire lifecycle of a machine or process.

2. What are the key technology trends among Chinese textile manufacturers, particularly in automation, digitalisation, energy efficiency and sustainability?

From the perspective of Swiss textile machinery manufacturers, these developments are closely linked to the need for more efficient and reliable production. Automation and digitalisation are not objectives in themselves; they need to contribute to higher productivity, consistent quality, better process control and reduced downtime.

The same applies to sustainability. Solutions that reduce energy, water, chemicals or raw-material consumption offer both environmental and economic benefits. This is particularly relevant as textile manufacturers need to remain competitive while meeting increasingly demanding requirements regarding resource use and sustainability.

TECHNOLOGY

For Swiss technology providers, the focus is therefore on solutions that combine productivity, quality, resource efficiency and increasingly intelligent production. The ability to demonstrate a measurable benefit for the customer is becoming more important than technology for technology's sake.

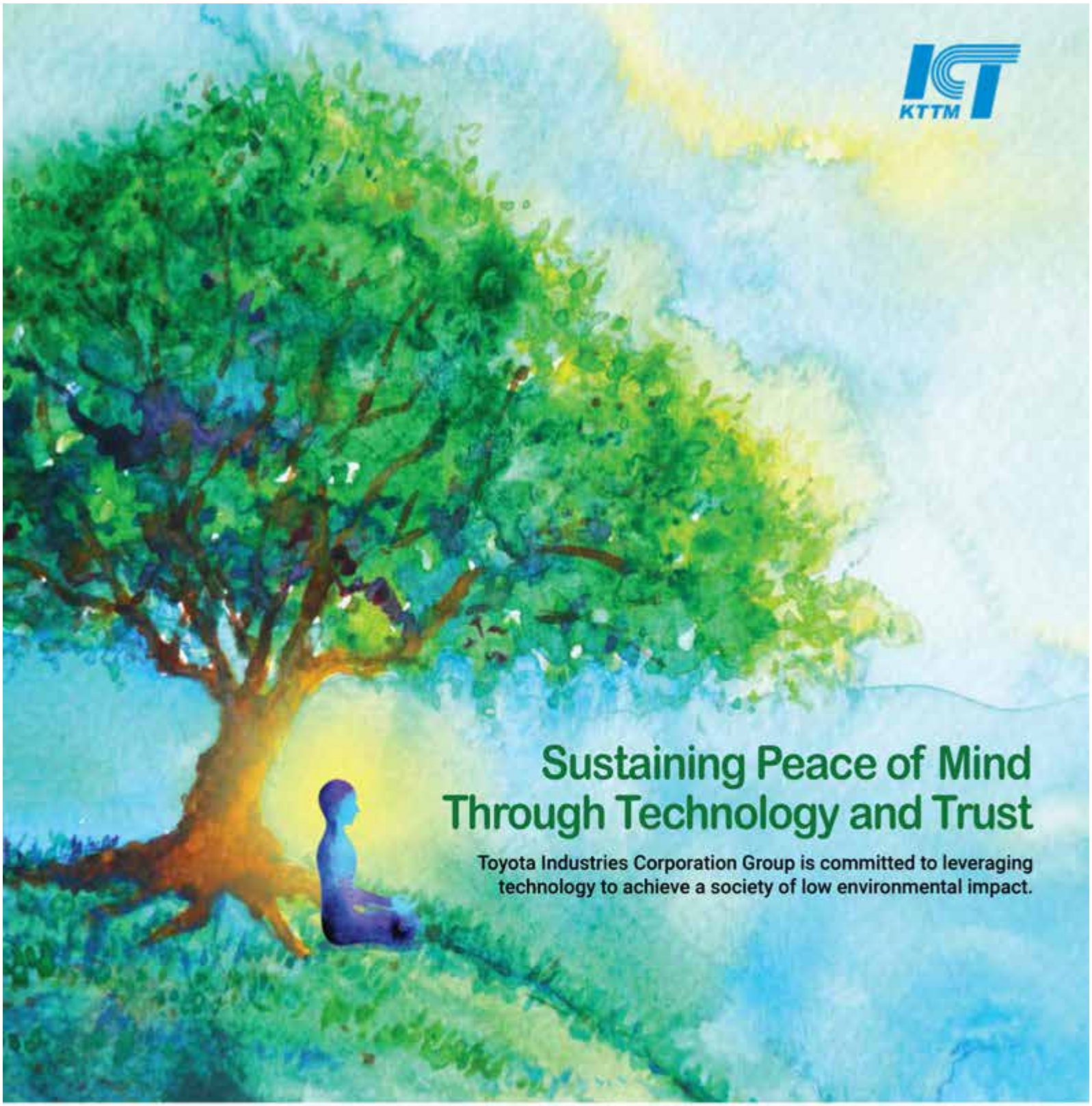
3. What technologies, innovations or solutions will your company highlight for the Chinese market at ITMA ASIA + CITME 2026?

Swissmem represents 42 companies within its Swiss Textile Machinery sector, covering almost the entire textile production chain. At ITMA Asia + CITME 2026, 18 Swiss companies will be exhibiting. Measured by exhibition space, Switzerland represents the fifth-largest exhibiting country, demonstrating the strong commitment of our industry to the Chinese market.

The Swiss exhibitors represent a wide range of technologies, from spinning preparation and yarn production to weaving, knitting, finishing, quality control and components. Their exhibits will include both new developments and further improvements to established technologies, with a strong focus on specialised solutions and high-value applications.

There is therefore no single innovation that represents the Swiss presence in Shanghai. Its strength lies in the combination of highly specialised companies, many of them technology leaders in their respective fields. ITMA Asia + CITME 2026 provides them with an important platform to demonstrate these capabilities and discuss concrete applications with customers in China and beyond.





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Italian Textile Machinery Brings Innovation and Tailor-Made Solutions to TITAS 2026

Strategic Partnership with Taiwan's Textile Industry Opens New Opportunities for Technology, Sustainability and High-Value Manufacturing

Italian textile machinery technology is set to take centre stage at **TITAS 2026 (Taiwan International Textile & Garment Machinery Show),** being held in Taipei from 6 to 8 October 2026. The participation of Italian manufacturers underlines the country's commitment to strengthening its long-standing relationship with Taiwan's textile manufacturing sector and supporting its next phase of technological development.

A New Chapter for Italian–Taiwanese Textile Cooperation

Taiwan's textile industry is undergoing a significant period of transformation. According to ACIMIT, the beginning of 2026 brought an **extraordinary turnaround in Italian machinery exports to Taiwan,** signalling renewed momentum in bilateral industrial cooperation.

The development also reflects Taiwan's search for reliable technology partners as its textile industry pursues **recovery, modernization and greater diversification.**

For Italian machinery manufacturers, TITAS 2026 therefore represents more than an exhibition. It is an opportunity to engage directly with Taiwanese manufacturers and demonstrate how advanced machinery can help companies respond to changing market requirements.

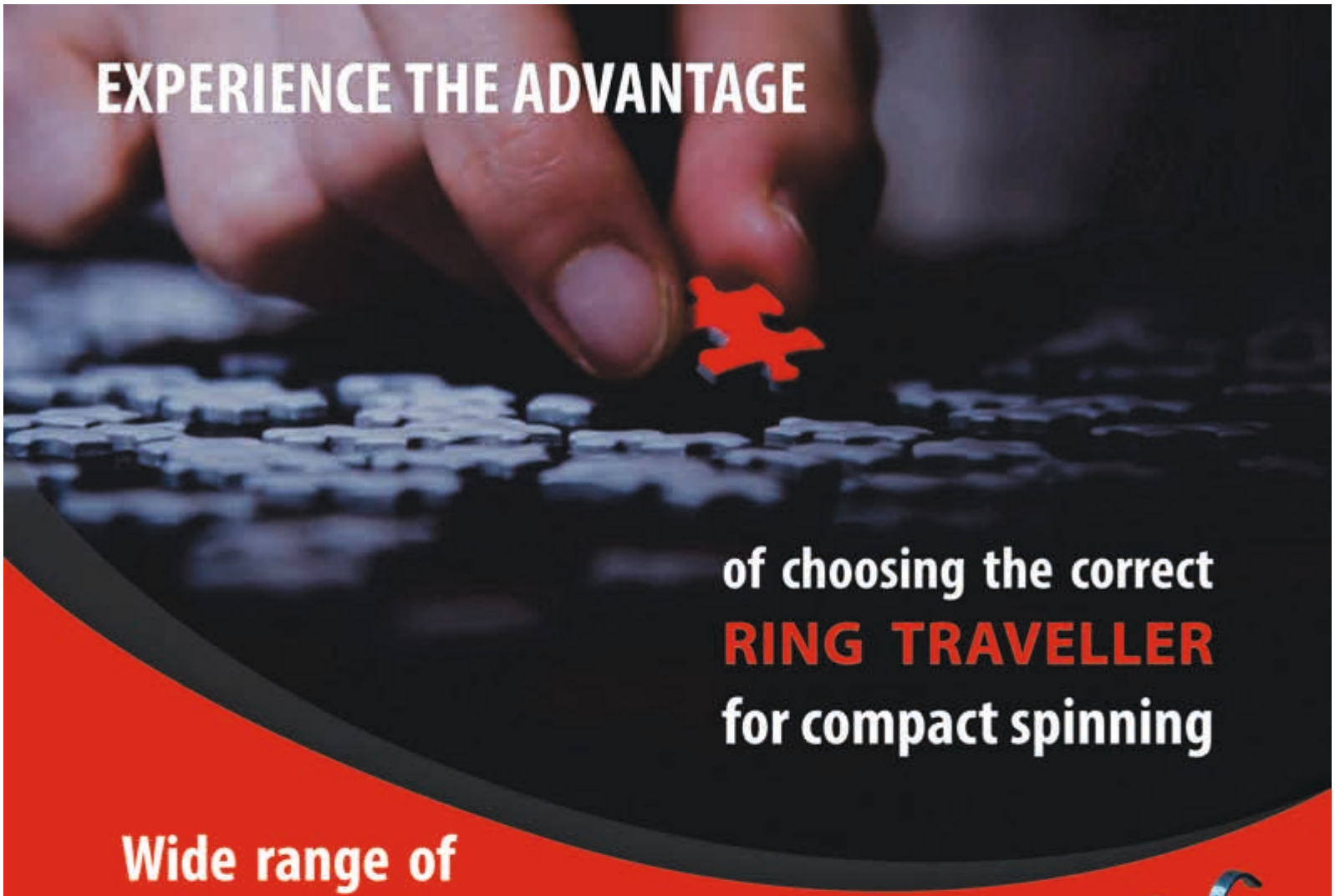
Tailor-Made Technology for a Changing Market

One of the defining strengths of Italian textile machinery is its ability to respond flexibly to highly sophisticated production requirements.

Taiwan has traditionally maintained a strong manufacturing presence in the **upstream stages of the textile supply chain,** where Italian spinning machinery continues to attract particularly strong interest. Finishing machinery and related accessories are also experiencing solid demand.

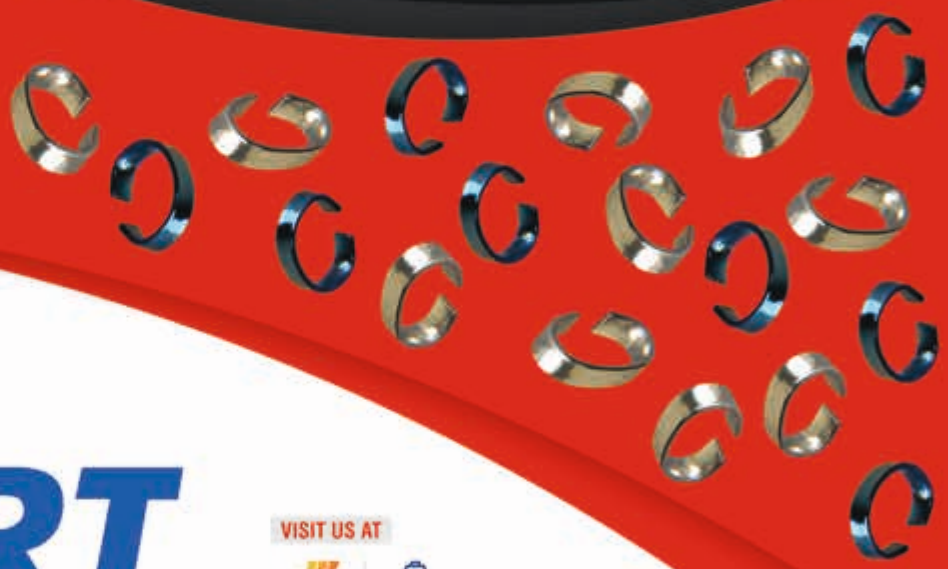
This market focus highlights the importance of **flexibility, customization and technological adaptability** as Taiwanese manufacturers seek to diversify production and develop **high-value-added market niches.**

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From Machinery Supplier to Technology Partner

The message from Italy is clear: the future of textile machinery is increasingly about partnership rather than simply equipment supply.

Marco Salvadè, President of ACIMIT, underlined the strong increase in Taiwanese demand recorded at the beginning of 2026 and the importance of technology in supporting the industry's transformation.

With **operational flexibility and environmental sustainability** becoming increasingly important to competitiveness, Italian companies are positioning themselves as technology partners capable of delivering customized solutions that combine **resource efficiency with high-quality final products.**

Italian Pavilion Showcases Technology Excellence

The Italian Pavilion at TITAS 2026 will feature the following companies:

COLOR SERVICE | CORINO | CROSTA | DANITECH | FADIS | FERRARO | L.A.I.P. | LAFER | POZZI LEOPOLDO | REGGIANI MACCHINE | TEXERA

Their presence provides Taiwanese and Asian textile manufacturers with an opportunity to explore Italian solutions across different areas of textile machinery and production technology.

Italy's Global Textile Machinery Strength

The Italian textile machinery sector has a substantial international footprint. **ACIMIT, founded in 1945,** represents approximately **300 companies employing nearly 13,000 people.**

Together, these companies produce machinery worth approximately **€2.1 billion,** with around **86% of production exported.**

The sector's international reputation is built on a combination of **creativity, sustainable technology, reliability and quality**—characteristics that have established Italian textile machinery as a significant force in global markets.

Technology with a Vision for the Future

TITAS 2026 comes at an important moment for the Taiwanese textile industry. As manufacturers look towards modernization, diversification and higher-value production, the ability to combine **advanced technology, flexibility, sustainability and efficiency** will remain increasingly important.

The Italian presence at TITAS demonstrates a commitment to building **long-term technological partnerships** and supporting manufacturers as they navigate a rapidly changing global textile landscape.

From precision engineering to customized solutions, from resource efficiency to sustainable production, Italian textile machinery is bringing a message of innovation and partnership to Taiwan: the future of textiles will be shaped not only by machines, but by the technology, expertise and collaboration behind them.

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Turning new ideas into industrial reality at the Monforts ATC

The Monforts Advanced Technology Centre (ATC),continues to be an invaluable resource to customers from around the world in achieving new standards in fabric finishing.

Covering an area of 1,200 square metres, the Monforts ATC at the company's headquarters in Mönchengladbach houses two full MONTEX finishing lines, engineered to accommodate an extremely diverse range of processes, in addition to a THERMEX range for the continuous dyeing of denim and other woven fabrics, a full colour kitchen and a number of lab-scale systems for smaller batch trials.

"The ATC allows our customers to test their own textiles and technical fabrics on Monforts dyeing and finishing machines under fully confidential, real production conditions," says the company's Marketing Manager Nicole Croonenbroek. "Using the results from these trials, we are also able to make recommendations for improving many fabric finishes."

Technical textiles

A highly-controlled and contained environment was a key consideration when constructing the special MONTEXline for technical textiles at the ATC.



MonfortsTextile Technologist Saskia Bollhöfer.

"Technical textiles are extremely diverse in their end-use applications and manufacturers can be called upon to quickly produce a succession of materials with widely differing properties and performance applications – often within a single shift," explains MonfortsTextile Technologist Saskia Bollhöfer. "These range from substrates for digitally-printed soft signage to carbon fabrics for today's high-performance composites, and from filter media which must perform in extreme temperatures to flame retardant barrier fabrics.These very different materials all require expert coating and finishing for maximum efficiency and the technology to allow for ultimate flexibility and the ability to switch quickly from one fabric formula to the next, without compromising on the economical use of energy or raw materials."

Advanced functions

The technical textiles line incorporates a Montex four-chamber, horizontal chain stenter and is fitted with an explosion-proof coating application chamber in order to allow treatment to be carried out with organic solvents and other volatile materials.

Special features on the line relate to further advanced functions – the ability to treat materials not only at temperatures of up to 320°C, but also to be able to treat the top and bottom faces of certain materials at different temperatures within a single pass through the machine.There are many applications where employing two separate temperature treatments is beneficial, such as floorcoverings – where the textile face fabric is treated at one temperature and the rubber backing at another – as well as PVC flooring employing chemical foams or materials like black-out roller blinds with heavy backings.



The THERMEX line at the Monforts ATC has recently been equipped with the Monforts Universal Energy Tower.



A highly-controlled and contained environment was a key consideration when constructing the special MONTEX line for technical textiles at the ATC.



MONTEX stenters provide smooth treatment at very low and precisely controlled tension during all stages of knitted fabric handling

At the same time, in the pharmaceutical industry there is a wide range of different applications for organic solvents such as anti-septic treatments which have to be treated very carefully and applied at very specific temperatures in order not to destroy their efficacy.

Most recently, a Baldwin TexCoat™ G4 digital spray unit has been successfully integrated into this line and is further available for full customer trials, especially for making full use of the latest advanced sustainable finishing chemistries supplied by industry leader Archroma.

BW Converting's Baldwin TexCoatG4 enables softeners, antimicrobials, durable water repellents, flame retardants and many other water-based chemicals to be precisely applied to textile surfaces, and in combination with industry-leading MONTEX stenters can reduce water, chemistry and energy consumption by up to 50% compared to traditional pad application processes.

"The new TexCoat installation is making an important contribution to what we can achieve and we are excited to be working together with Archroma and BW Converting to bring further transformative change to the dyeing and finishing space," saysSaskia Bollhöfer.

Knitwear

The second production line at the ATC has been engineered with the state-of-the art production of conventional knitwear in mind and is based around a MONTEX stenter with vertical chain return.

"Knitted fabrics need delicate handling as they often have a higher degree of elasticity compared to more rigid woven materials," says Nicole Croonenbroek. "Our MONTEX stenters provide smooth treatment at very low and precisely controlled tension during all stages of knitted fabric handling, as well as very gentle and even thermal treatment. The MONTEX is extremely flexible in terms of the different fabric qualities it can accommodate and also provides significant benefits in terms of energy consumption."

The line is also equipped with the company's Eco Applicator system which eliminates the need for a conventional wet-on-wet padder, instead employing trough and roller techniques to precisely apply the required amount of liquid/coating to the fabric.

Compared with a padder system, where the initial moisture content of the fabric entering the stenter is 60%, with the Eco Applicator it is reduced to 40% and the system also has the shortest fabric path from the coating unit into the stenter.

The Eco Applicator's versatility also allows mills to apply finishes to just one side of the fabric, or both, and even to apply separate finishes to each side, or to specific areas of a fabric, for endless possibilities, whether treating wovens, denim or delicate knits.

THERMEX

Almost 1,000 MonfortsTHERMEXhotflue dyeing systems are now operational in the key manufacturing countries, with more than 150 of them already reaping the benefits of the Econtrol® process.

With Econtrol®, reactive dyestuffs are fixed into the fabric in a one-step dyeing and drying process with a controlled combination of steam and air. The entire pad-dry process takes just two-to-three minutes at a temperature of between 120-130°C and a relative humidity volume of 25-30%.

The THERMEX line at the Monforts ATC has recently been equipped with the Monforts Universal Energy Tower, a stand-alone module which enables the heat from the exhaust air flow of thermal processes to be recovered, resulting in energy savings of up to 25%, depending on the exhaust air volume and operating temperature.

“The current focus of the industry is very much on cleaner processes in order to meet the commitments on sustainability made by the major fashion brands and with further regulations already in the pipeline,” says Nicole Croonenbroek. “This is calling for new investments that enable a significant reduction in resource consumption to be achieved, but that are easy to integrate into existing production systems. THERMEX lines running Econtrol fit the bill perfectly.”

From trials to production

The value of the ATC ultimately lies in its ability to bring together the accumulated process knowledge of Monfortswith full-scale production technology, allowing customers to move beyond laboratory evaluation and establish exactly how new fabrics, finishes and processes will perform under industrial conditions.

Trials can be used to determine optimum machine settings, temperatures, dwell times and application parameters, as well as to assess the implications for energy, water and chemical consumption. This provides manufacturers with reliable production data before introducing a new process at their own mills or committing to further investment.

The centre is also increasingly important as textile manufacturers respond to demands for lower resource consumption, new finishing chemistries and increasingly specialised fabric performance. By working alongside Monforts technologists, customers can investigate new approaches while drawing on extensive experience across conventional apparel fabrics, technical textiles, coating and dyeing and thermal finishing.

“The ATC draws on all of the know-how of our company in respect of fabric processing,” concludes Saskia Bollhöfer. “It gives customers the opportunity to work with our specialists and our latest technologies to establish solutions that are not only technically achievable, but practical and economically viable in production.

“Whether the objective is to improve an existing process, develop an entirely new product or evaluate the potential of a new technology, we can work with customers from the initial trials through to the optimum production parameters. This is what makes the ATC such an important resource for turning new ideas into industrial reality.”

To learn more, please visit:
www.monforts.de/en/techcenter

ITM
INTERNATIONAL TEXTILE MARKET
Trade Textile And Technology

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Publisher: Times International
Editor - in - Chief : Prakash Kinny
Senior Editor: B.S. Rao
Circulation Manager: Noel Rodrigues
Finance Director: Rita Gomes
Administration : Joe Pereira

Editorial Office:
Times International
H. No. 157, Satpala, Bhandra Lee
Post: Agashi, Tal: Vasai, Via:Virar(W)
Dist: Palghar (401 301)
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E-newsletter : www.e-itm.net

Price Per-Copy : Rs. 100

INDIA
Annual Subscription (6 Issues) - Rs. 700
Two Years Subscription (12 Issues) - Rs. 1,000

INTERNATIONAL
Annual Subscription (6 Issues) - US $ 60
Two Years Subscription (12 Issues) - US $ 100

Edited, Printed and Published by Times International

India, Pakistan, Bangladesh, Srilanka, Vietnam, Indonesia, Thailand, China, HongKong, USA, Germany, Spain, Italy, U.K. & France

EDITORIAL

ITMA ASIA + CITME 2026: Driving Asia's Textile Future

The global textile industry is navigating a period of economic uncertainty, geopolitical challenges, changing trade dynamics and rising production costs. In this evolving environment, ITMA ASIA + CITME 2026 assumes greater significance as a strategic platform for innovation, technological advancement and business development.

The exhibition will bring together global machinery manufacturers, technology providers and textile producers to explore solutions that can strengthen competitiveness and accelerate industrial transformation.

Asia continues to play a pivotal role in global textile manufacturing, with China, India and other regional economies driving production, investment and technological development. As manufacturers respond to changing consumer expectations and increasingly demanding international markets, investment in advanced machinery, automation and digitalisation is becoming essential.

As Asia continues to shape the direction of the global textile industry, ITMA ASIA + CITME 2026 stands as an important catalyst for technological progress, industrial collaboration and the next generation of textile manufacturing.

VDMA Textile Machinery Charts a New Course for European Innovation and Global Competitiveness

New Executive Board for 2026–2030 sets its sights on innovation, AI and long-term industry leadership



Newly elected Executive Board of VDMA Textile Machinery

Image source: VDMA

At a pivotal moment for the European textile machinery industry, **VDMA Textile Machinery has elected its new Executive Board for the 2026–2030 term,** signalling a renewed commitment to technological leadership, innovation and stronger global competitiveness.

At the General Meeting held in Hanover at the end of September, **Dr Janpeter Horn, Managing Director of A. Herzog Maschinenfabrik, was re-elected Chairman. Regina Brückner,** Managing Partner of BRÜCKNER Trockentechnik, and **Verena Thies,** Managing Partner of THIES Textilmaschinen, were again elected as Deputy Chairs for the next four years.

An Industry at a Turning Point

The meeting took place in Hanover, one year ahead of **ITMA 2027,** and focused on a fundamental question for Europe's industrial future: **"The world is moving forward – where is Europe?"**

The European textile machinery sector is operating in an increasingly competitive global environment. Growing competition from Asia, combined with challenging business conditions in Europe, has contributed to significant declines in order intake and turnover in recent years.

For 2026, VDMA has revised its turnover forecast downward by **14 per cent in nominal terms.** At the same time, there are encouraging signs that **order intake is beginning to stabilise,** providing an important foundation for the industry to look ahead with renewed confidence.

From Challenge to Opportunity

Despite the difficult market environment, the message emerging from the General Assembly was one of determination rather than retreat.

Dr Janpeter Horn emphasised that the textile machinery industry is undergoing **profound change,** but possesses the innovation, expertise and technological capabilities needed to actively shape the future.

A major priority will be to support customers throughout the **entire lifecycle of their machinery and equipment,** while harnessing the opportunities created by **artificial intelligence.** Strengthening the long-term competitiveness of the European textile machinery industry will remain at the heart of the new leadership's agenda.

ITMA 2027 in Hanover is expected to provide a major international platform for demonstrating these capabilities and presenting the next generation of technologies to the global textile industry.

A Strong and Diverse Leadership Team

The newly elected Executive Board brings together experienced leaders from some of

VDMA NEWS

Europe's leading textile machinery and equipment manufacturers. The **VDMA Textile Machinery Executive Board for the 2026–2030 term** comprises:

- **Dr Janpeter Horn** — A. Herzog Maschinenfabrik GmbH & Co. KG, Oldenburg — **Chairman**
- **Regina Brückner** — BRÜCKNER Trockentechnik GmbH & Co. KG, Leonberg — **Deputy Chair**
- **Verena Thies** — THIES GmbH & Co. KG, Coesfeld — **Deputy Chair**
- **Riccarda Dilo** — Oskar Dilo Maschinenfabrik KG, Eberbach
- **Peter D. Dornier** — Lindauer DORNIER GmbH, Lindau
- **Volker Gingter** — A. Monforts Textilmaschinen, Mönchengladbach
- **Andreas Lukas** — ANDRITZ Küsters GmbH, Krefeld
- **Dr Jörg Morgner** — Temafa Maschinenfabrik GmbH, Bergisch Gladbach
- **Benjamin Reiners** — Reiners + Fürst GmbH & Co. KG, Mönchengladbach
- **Markus Settegast** — Groz-Beckert KG, Albstadt
- **Alexander Stampfer** — Trützschler Group SE, Mönchengladbach
- **Georg Stausberg** — Barmag GmbH & Co. KG, Remscheid

The composition of the Board brings together expertise from across the textile machinery value chain and reflects the **diversity, engineering strength and innovative capacity of the European textile machinery sector.**

Technology, Expertise and Collaboration at the Core

Dr Harald Weber, Managing Director of VDMA Textile Machinery, welcomed the newly elected board, highlighting its **experience, technical expertise and broad industry representation.**

According to Weber, these strengths provide an important foundation for addressing the key future challenges facing European textile machinery manufacturing and for creating new momentum for the industry's competitiveness.

The priorities emerging from the meeting point towards an industry where **technology, digitalisation, artificial intelligence, customer partnership and engineering excellence** will increasingly determine competitiveness.

Europe's Engineering Strength

The wider VDMA network represents approximately **3,500 German and European mechanical and plant engineering companies.** The sector is characterised by innovation, export orientation and a strong presence of small and medium-sized enterprises.

Across the EU-27, these companies employ around **3 million people,** including more than **1.2 million in Germany.** The sector represents an estimated **€900 billion in annual turnover** across the European Union, underlining the strategic importance of mechanical and plant engineering to Europe's industrial economy.

Looking Towards 2030

The new Executive Board begins its four-year term at a defining moment for the European textile machinery industry. Market pressures are real, but so are the opportunities presented by technological transformation.

The industry's future will depend not simply on overcoming today's challenges, but on **investing in innovation, embracing artificial intelligence, strengthening customer partnerships and transforming Europe's engineering expertise into new competitive advantages.**

With a new leadership team in place and ITMA 2027 on the horizon, VDMA Textile Machinery is preparing to demonstrate that Europe's textile machinery sector can continue to evolve, innovate and contribute to the future of global textile manufacturing.

The road ahead may be challenging—but the industry's technological strength, expertise and determination provide a powerful foundation for moving forward.

INDIAN TEXTILE MACHINERY INDUSTRY

TMMA(I) 66th Annual General Meeting Highlights Industry Challenges, Technology Priorities and Global Opportunities

The Textile Machinery Manufacturers' Association (India) (TMMA) held its **66thAnnual General Meeting (AGM)** on 18 September 2026, bringing together leading representatives of the textile engineering industry, members of the Association, industry professionals, government officials, guests and distinguished experts.

The AGM focused on the changing global textile manufacturing environment, the challenges confronting Indian textile machinery manufacturers, the growing domestic market opportunity, the need for technological modernisation and automation, and the importance of developing globally competitive Indian textile machinery.

The programme also featured the presentation of the **TMMA Export Excellence Awards and R&D Awards for 2025–6,** recognising achievements in exports, indigenous technology development, research and innovation.

Chairman'Address: India Has the Market, but Competitiveness Is Essential

Welcoming the gathering, **Mr. Prashant Mangukia, Chairman, TMMA(I),** extended a warm welcome to Chief Guest **Mr. Durai Palanisamy,** Chairman of the Southern India Mills'Association (SIMA) and Executive Director of Pallava Group, as well as members of the Managing Committee, colleagues and guests. He emphasised that the AGM provided an opportunity to examine the current position of the textile engineering industry and, more importantly, the opportunities emerging ahead.

According to Mr. Mangukia, FY2025–6 was marked by resilience as well as uncertainty. Geopolitical tensions, tariff uncertainties, changing trade policies and fragmented global supply chains are reshaping manufacturing and sourcing strategies worldwide. The increasing adoption of **China+1, near-shoring and friend-shoring strategies,** he noted, presents an important opportunity for India.

However, he stressed that opportunity alone would not be sufficient. Indian manufacturers would have to compete on **technology, quality, productivity, delivery and reliability.** For the textile engineering industry, this means faster innovation, greater automation and a stronger focus on global competitiveness.

India' Economic Strength and Textile Engineering Opportunity

The Chairman highlighted India's economic resilience, noting that real GDP growth was **7.7% in FY2025–6,** compared with 7.1% in the previous year. He linked this growth to domestic consumption, investment, manufacturing and services.

For the textile engineering sector, India's infrastructure development, manufacturing expansion and deeper integration with global value chains create significant opportunities. Every major expansion in the textile industry, he observed, creates opportunities for textile engineering.

The critical question, therefore, is whether Indian machinery manufacturers can capture a larger share of this opportunity.

Domestic Machinery Market Presents a Major Opportunity

Mr. Mangukia also drew attention to the challenging operating environment faced by the textile engineering industry during FY2025–26. Production and capacity utilisation declined in double digits, while exports remained under pressure.

At the same time, domestic textile machinery demand increased to approximately **₹32,397 crore.** Against this substantial market, Indian manufacturers supplied less than 25% by value, while imports increased sharply to approximately **₹26,999 crore,** predominantly in the weaving and knitting machinery segments.

The Chairman's message was that the issue is not a lack of market opportunity but the ability of Indian manufacturers to compete effectively. The industry must therefore move beyond simply producing more machinery and concentrate on developing machinery that is **more advanced, efficient, reliable and globally competitive.**

Five Priorities for the Future

Mr. Mangukia outlined five key priorities for strengthening the Indian textile engineering industry:

1. Stronger Domestic Manufacturing

The industry needs an ecosystem that encourages and strengthens Indian machinery manufacturing while continuously improving competitiveness.

2. Technology and Modernisation

With technology evolving rapidly, Indian textile machinery manufacturers need to keep pace and make technology a key source of competitive advantage.

3. Quality and a Level Playing Field

Customers need access to the best technology at competitive prices, while Indian manufacturers need a fair opportunity to compete.

4. Exports – From India to the World

The Chairman identified exports as one of the industry's major opportunities. With global supply chains changing, Indian manufacturers need to look beyond the domestic market and strengthen international marketing, project exports, export finance and global partnerships.

The larger ambition is for **machines designed and manufactured in India to be trusted worldwide.**

5. R&D, Innovation and Skills

The industry must invest in R&D, innovation and human resources. Stronger collaboration between industry, academia and technology institutions, together with development of skilled manpower, will be essential for future competitiveness.

From Cost Competitiveness to Technology Competitiveness

The Chairman observed that geopolitical uncertainty, tariffs and changing trade patterns will continue to challenge global manufacturing. At the same time, the diversification of manufacturing creates an opportunity for India.

With its large domestic market, growing engineering capabilities and entrepreneurial strength, India has the foundation to expand its role in global textile manufacturing.

The industry, he emphasised, now needs **speed, scale and confidence** and must transition from being primarily cost-competitive to becoming **technology-competitive.** In his view, this transformation could enable Indian textile engineering companies to develop from suppliers to Indian textile mills into global technology partners.

Mr. Mangukia also reaffirmed TMMA(I)'s role in representing the industry's interests before government, facilitating dialogue between machinery manufacturers and textile users, supporting technology and market development, sharing industry intelligence and creating opportunities for collaboration.

Chief Guest Mr. Durai Palanisamy: Textile Industry Entering an Important Phase

The Chief Guest, **Mr. Durai Palanisamy,** Executive Director of Pallava Textiles Private Ltd. and Chairman of SIMA, addressed the

gathering after the award presentations. Mr. Durai Palanisamy is the Executive Director of **Pallava Textiles Private Ltd.,** a flagship company of Pallavaa Group. He holds a B.Tech. in Textiles and an MBA in International Business Management from Southern New Hampshire University, USA.

Mr. Palanisamy expressed his appreciation for being invited to the 66th AGM and said he was particularly pleased to present the awards recognising the achievements of the industry's members. He emphasised that recognising performance is important not only as an acknowledgement of achievement but also as a means of motivating companies to improve further.

He described the Indian textile industry as being at an important stage, with developments such as FTAs and government policies creating positive momentum. He also observed increasing activity around the **China+1 strategy,** with brands and retailers seeking to diversify supply chains and move part of their sourcing and manufacturing into India.

Modernisation and Automation Become Critical

One of the significant observations in Mr. Palanisamy's address was the need for modernisation of India's textile manufacturing capacity.

He referred to information indicating that only around **15–20% of the installed spinning capacity in the country is less than 10 years old,** highlighting the need for modernisation if the Indian textile industry is to remain globally competitive.

He explained that machinery-buying decisions have changed considerably. While price, quality and maintenance remain important, mills today are increasingly examining:

- Automation capability
- Cost efficiency
- Digitalisation
- ERP integration
- Data availability and utilisation
- Overall productivity and operational efficiency

Labour availability has become a particularly important issue for textile mills, making practical automation increasingly critical.

Industry 4.0, AI and Integrated Data

Mr. Palanisamy highlighted the growing importance of **Artificial Intelligence and Industry 4.0** in textile manufacturing.

He pointed out that textile production consists of a sequence of interconnected processes, often involving machinery from multiple suppliers. Data generated by individual machines can therefore remain in separate silos.

The challenge for machinery manufacturers is to enable data generated across different machines and processes to be integrated into a common system. Such integration would allow textile manufacturers to convert machine data into useful information for operational and strategic decision-making.

He also stressed that automation needs to be **practical, effective and affordable.** Expensive automation that does not deliver adequate operational value may not provide the desired benefits to textile manufacturers.

Strengthening Cooperation Between Machinery Manufacturers and Textile Mills

Mr. Palanisamy called for closer cooperation between machinery manufacturers and textile producers.

He noted that government initiatives aimed at promoting textile machinery manufacturing in India could create opportunities for further investment. At the same time, he encouraged textile mills to provide manufacturers with opportunities to test and refine machinery on actual production floors.

He argued that machinery manufacturers should thoroughly test equipment before commercial deployment, work closely with customers to resolve practical issues and use production-floor experience to improve machines.

Such cooperation, he said, can build **customer confidence and trust** and help Indian machinery manufacturers develop genuinely world-class products.

Looking ahead, he said Industry 4.0 and AI would play an increasingly important role. Machines capable of self-adjustment and auto-correction are already becoming more widely accepted, and developing increasingly intelligent machinery will be an important direction for the industry.

Export Excellence Awards 2025–26

A major highlight of the AGM was the presentation of the **TMMA Export Excellence Awards 2025–26.**

The Association's award programme covers the Apex Export Award, Segment Export Awards for major sectors of the textile machinery industry, and Special Export Awards. The categories include textile machinery, parts and accessories, textile testing/monitoring/controlling instruments and specialised machinery segments.

Apex Export Award

Rieter India Pvt. Ltd., Pune received the Apex Export Award.

The company's overall turnover during the year was reported at **₹1,138 crore,** with total weighted exports, including direct and indirect exports, of **₹311 crore.**



The award was received by **Mr. Abhijeet Puranik, Director – Machine Sales.**

Segment Export Awards

Machinery Sector:
Kirloskar Toyota Textile Machinery Pvt. Ltd., Bengaluru received the award. The company reported turnover of ₹302 crore, including weighted exports of ₹218 crore.



Recipients of the Award is Mr. A. Ragotham Head Marketing of the Company.

Parts & Accessories Sector:
Lakshmi Card Clothing Mfg. Co. Pvt. Ltd., Coimbatore was recognised, with reported turnover of ₹163 crore and weighted exports of ₹24 crore.



Mr. N. Jagadeesan, GM-Exports Marketing of the Company.

Textile Testing, Monitoring & Controlling Instruments:
Premier Evolvics Pvt. Ltd., Coimbatore received the award, with reported turnover of ₹75 crore and weighted exports of ₹22 crore.



Recipient of the Award is Mr. Sanjay Gandhi – Vice President -Sales of the company

Special Export Awards

The Special Export Awards recognised companies across specialised segments:

- **Spinning Machinery:** Truetzschler India Pvt. Ltd., Ahmedabad
- **Synthetic Machinery:** Bhagat Textile Engineers, Surat
- **Processing Machinery:** Colorjet India Ltd., Noida
- **Parts & Accessories:** Sieger Spintech Equipments Pvt. Ltd., Coimbatore
- **Small Scale – Machinery:** Menzel Engineering India Pvt. Ltd., Palghar
- **Small Scale – Parts & Accessories:** Inspiron Engineering Pvt. Ltd., Ahmedabad

The cited export performance figures demonstrate the contribution of these companies to India's textile machinery exports during 2025–26.



Recipient of the Award is Mr. Sandeep Sharma, GM Sales, of **Truetzschler India Private Limited, Ahmedabad**



Mr. Harshil Lalitbhai Bhagat - Director, Mr. Harikesh Gupta - General Manager - Marketing, and Mr. Hiral Bhavsar – Manager Sales, of **Bhagat Textile Engineers, Surat**



The recipient of the Award is Mr. P. Bojaraj Vice President, of the **Sieger Spintech Equipments Private Limited, Coimbatore**



Recipient of the Award are Mr. Harish Mehta – Managing Director, Mr. Kinnar Desai Vice President-Sales and Mr. Milind Mehta of **Menzel Engineering India Private Limited, Palghar**



Recipient of the Award is Ms. Radhikaben Bhagwati – Director of **Inspiron Engineering Pvt. Ltd., Ahmedabad**

R&D and Innovation Awards

The AGM also recognised indigenous product development and R&D achievements.

According to the award citation, **nine member companies submitted nominations for 14 Product-R&D Awards.** Two nominations were considered eligible for the Innovation Award, while four nominations received Certificates of Appreciation for R&D efforts during 2025–26.

LMW Limited – LRJ90 SX SXL Ring Frame

LMW Limited, Coimbatore, received an Innovation Award for its **LRJ90 SX SXL Ring Frame,** featuring 2,400 spindles with a 65 mm gauge.

The citation identifies the 2,400-spindle, 65 mm-gauge configuration as a first-to-market development. The award was received by **Mr. V. Prakash, Senior Manager – R&D.**



The Indian Card Clothing Co. Ltd., Pune, received an Innovation Award for its **stainless-steel card clothing** developed for applications including medical textiles and synthetic fibre processing.

The development addresses contamination-free working requirements, particularly important in medical textile applications, while the stainless-steel wires in the doffing zone improve fibre transfer.



Recipient of the Award are Mr. Mehul Trivedi - Director, Mr. Lakshmikant Rathi – President, Mr. Ashok Kumar Pal – VP (Product development & Technical support) of **The Indian Card Clothing Co. Ltd.,**

Certificates of Appreciation

Certificates of Appreciation were presented for several further developments:

Lakshmi Card Clothing Mfg. Co. Pvt. Ltd. was recognised for **ALFA COMB & ALFA TOP COMB,** manufactured through an 18-stage progressive stamping process. The citation highlights precision, replaceable strips, reduced production time and labour requirements, improved fabric handle and suitability for sustainable textile production.



Recipient of the Award is Mr. N. Jagadeesan,

GM-Exports Marketing of the **Lakshmi Card Clothing Mfg. Co. Pvt. Ltd**

Ramsons Garment Finishing Equipments Pvt. Ltd., Bengaluru was recognised for its **GO GREEN MACHINE (NANO SPRAY).** The technology uses advanced chemical atomisation to apply finishing treatments with reduced water and chemical consumption. The cited benefits include up to 50% reduction in water consumption, more than 60% reduction in chemical usage and zero wastewater discharge.



Recipient of the Award are Mr. Ram Mohan - CEO and Mr. Sunil Poddar – Sales Manager of **Ramsons Garment Finishing Equipments Private Limited, Bangalore**

Sieger Spintech Equipments Pvt. Ltd. received Certificates of Appreciation for two developments: the **Pallet Through AMR Cone Transport System** and the **Flying Cone Tip Identification System.** The AMR system provides flexible movement around obstacles, while the image-scanning system is designed to prevent paper cone coding mix-ups during pallet formation and subsequent automated handling.



Recipient of the Award is Mr. P. Bojaraj Vice President, of the **Sieger Spintech Equipments Private Limited**

A Stronger Partnership Between Industry, Government and Technology Providers

The discussions at the AGM underlined that India's textile engineering development will require coordinated action across the entire ecosystem.

The Chairman acknowledged the continued engagement of the **Ministry of Textiles, Ministry of Commerce & Industry, DPIIT, BIS, Textile Commissionerate and other government departments and agencies** with the industry.

The Chief Guest's address similarly emphasised cooperation between machinery manufacturers and textile mills, particularly in testing, developing and improving machinery under real production conditions.

Together, these perspectives point towards a more integrated model in which manufacturers, textile producers, government agencies, academia and technology institutions work together on competitiveness, modernisation, innovation and skills.

Vote of Thanks and Recognition of Industry Support

The AGM concluded with a Vote of Thanks expressing appreciation to Chief Guest Mr. Durai Palanisamy for his participation and for presenting the Export and R&D Awards. The Association also congratulated all award winners for their achievements in exports, research and innovation.

Acknowledgement was extended to officials from the Ministry of Heavy Industries, Ministry of Finance, DGFT, Ministry of Textiles and the Textile Commissioner's office for their engagement and support.

The Association also remembered **Late Dr. Anirban Guha of IIT Mumbai,** a long-serving member of the R&D Awards Jury, and acknowledged his contribution to the Association's awards activities.



The R&D Awards Jury members were thanked for their time and expertise, while appreciation was also expressed to the Textiles Committee, India-ITME Society, ITAMMA, the print and electronic media, TMMA members, the Secretariat and the Association's Advisor for their respective contributions.

Conclusion

The **66th AGM of TMMA(I)** presented a clear picture of an Indian textile engineering industry facing significant challenges but also standing before a substantial opportunity.

The domestic textile machinery market offers considerable potential, while global supply-chain diversification is creating new possibilities for Indian manufacturers. At the same time, the industry must address competitiveness, modernisation, automation, digitalisation, R&D, skilled manpower, exports and customer confidence.

The central message emerging from both the Chairman's address and the Chief Guest's speech was the need to move beyond conventional cost-based competition towards **technology-driven competitiveness.**

The industry's future will increasingly depend on intelligent machinery, Industry 4.0, AI, integrated data, practical automation, indigenous R&D and closer collaboration between machinery manufacturers and textile mills.

The Export Excellence and R&D Awards provided tangible evidence of the innovation and export capabilities already present within the Indian textile machinery sector. The challenge ahead is to build upon these capabilities and translate them into greater domestic market participation and stronger international presence.

As the Chairman concluded, the next chapter of Indian textile engineering should not be defined merely by growth, but by **leadership, competitiveness and global technological capability.**

The LMW Spinpact – SIRO Compact Advantage for Smarter MMF Spinning

Globally, the textile industry has witnessed a decisive shift toward Man-Made Fibers (MMF), which today account for nearly 70% of total staple fibre consumption, compared to about 30% for cotton. Polyester Staple Fiber (PSF) alone contributes nearly 75–80% of the total MMF staple segment, highlighting its importance in modern spinning.

In contrast, India continues to remain predominantly cotton-centric, with cotton still accounting for nearly 60-65% of staple fibre consumption. However, changing consumer preferences, rising demand for performance and value-added textiles, sustainability considerations, and the growing global preference for MMFbased products are steadily driving India toward a more balanced fiber mix. Moving ahead, PSF is expected to play a pivotal role owing to its versatility, cost competitiveness, durability, and wide applicability across apparel, home textiles, and technical textile segments.

In this evolving textile landscape, LMW Limited with decades of engineering excellence and continuous technological innovation, offers complete range of smart state-of-the-art machinery, highly versatile in processing all types of fibres and blends, including cotton, synthetic fibres, regenerated fibres, and specialty materials.

Particularly in Polyester Staple Fiber processing, LMW's integrated spinning solutions ensure optimized fiber handling, controlled drafting, enhanced yarn formation, improved productivity, and superior yarn quality consistency throughout the spinning process.

Processing PSF with Spinpact SIRO Compact Spinning – The Smart Advantage,

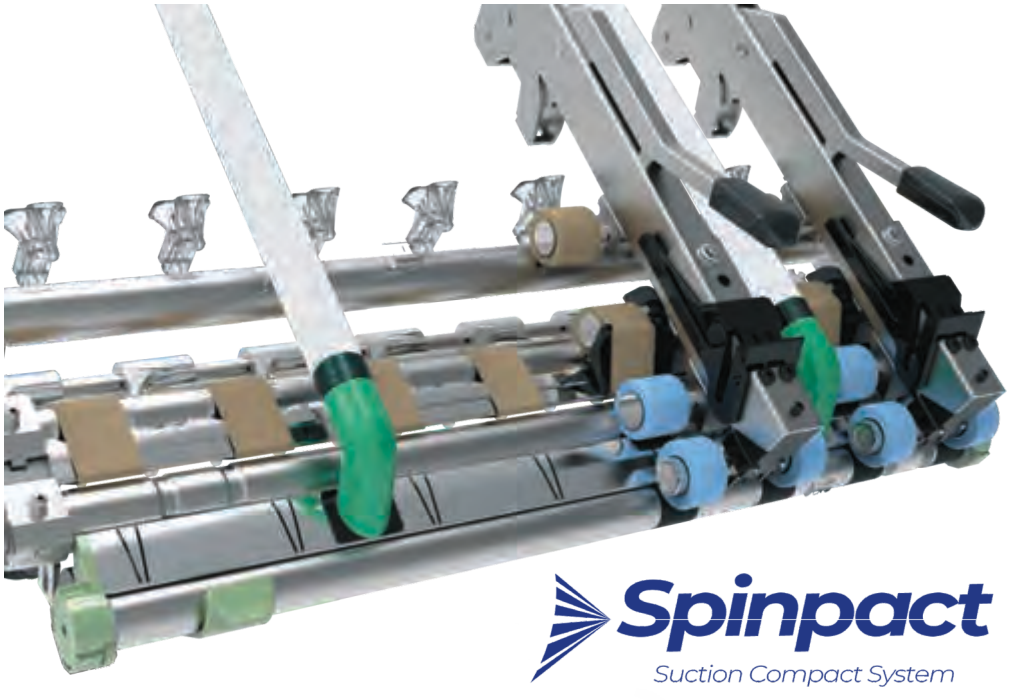
To manufacture high-quality Polyester Staple Fiber yarns, the material was processed on complete LMW spinning machinery from Blow room to Ring Spinning at one of the leading spinning mills in North India and another reputed spinning mill in Nepal. The Polyester Staple Fiber was spun through both conventional ring spinning and advanced Spinpact SIRO Compact spinning system. The spinning performance clearly demonstrated the significant improvements in yarn quality, spinning stability, and productivity achieved through LMW's Spinpact - SIRO Compact spinning technology.

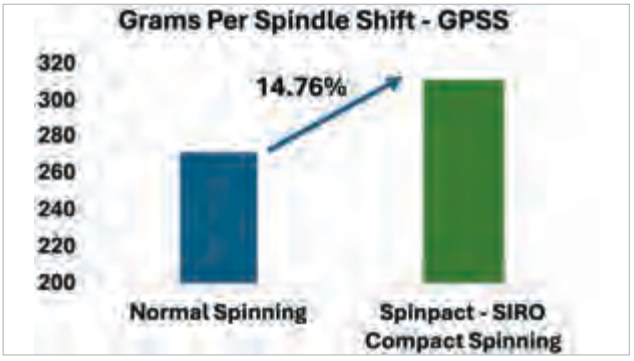
Raw Material & Spinning Details

Parameter	Details
Material Fiber	100% Polyester Staple
Fibre Specification	44 mm × 1.4 D
Conventional Spinning	Ne 30s on LR 9/AX
SIRO Compact LRJ Spinning	Ne 60/2s (30s SIRO) on 9/SX (Spinpact)

Comparative Performance Analysis

LMW Spinpact – SIRO Suction Compact Spinning demonstrates significant performance improvements over conventional ring spinning across key yarn quality and productivity parameters. The comparative results highlight gains in productivity and strength, along with improved yarn regularity, lower imperfections and reduced hairiness.





Productivity – GPSS (Grams Per Spindle Shift) - Increase in Productivity: 14.76%

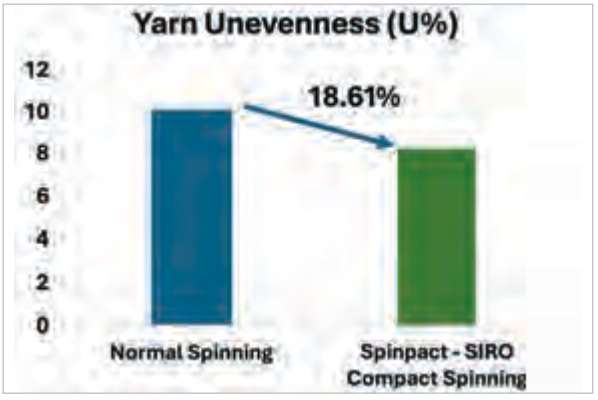
The optimized machine design and efficient suction compacting system enable higher production output while maintaining consistent yarn quality. The 14.76% increase in GPSS demonstrates improved machine productivity and operational efficiency compared with conventional spinning.



Count Strength Product (CSP) - Increase in CSP: 14.92%

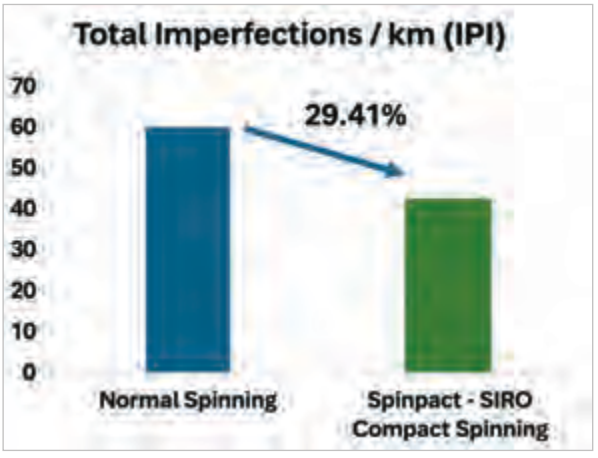
The 14.92% increase in CSP indicates improved yarn strength and structural integrity. The compacting effect reduces fiber spread within the spinning triangle, promoting better fiber integration and stronger yarn formation, which supports improved downstream processing and fabric durability.

SPINNING



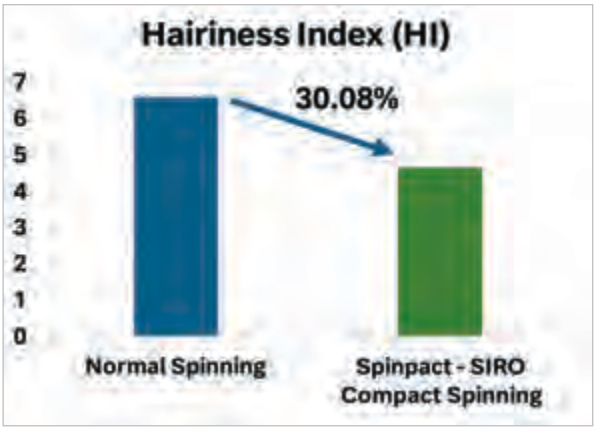
Yarn Unevenness (U%) - Reduction in Unevenness: 18.61%

An 18.61% reduction in yarn unevenness demonstrates improved yarn regularity. Better fiber control and alignment minimize mass variation during yarn formation, resulting in a more uniform yarn structure.



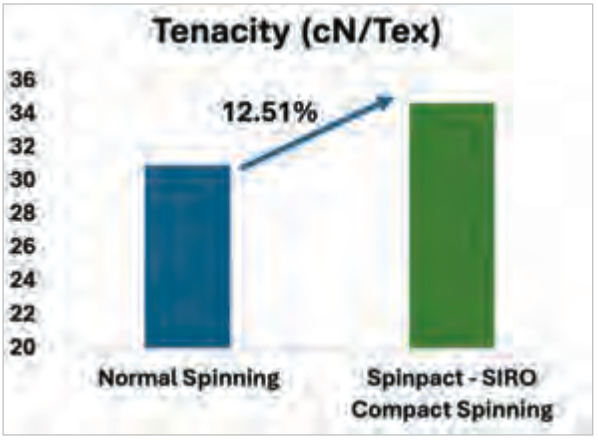
Total Imperfections / km (IPI) - Reduction in Imperfections: 29.41%

The 29.41% reduction in total imperfections reflects better control of fiber migration and drafting irregularities. The resulting cleaner yarn can contribute to improved loom efficiency, fewer fabric defects and enhanced yarn acceptability.



Hairiness Index (HI) - Reduction in Hairiness: 30.08%

A 30.08% reduction in hairiness improves yarn surface characteristics by integrating protruding fibers more effectively into the yarn body. Lower hairiness contributes to better yarn appearance, reduced pilling tendency and improved downstream processing performance.



Tenacity (cN/Tex) - Increase in Tenacity: 12.51%

The 12.51% increase in tenacity reflects improved fiber cohesion and yarn structure formation. Higher tenacity supports better package stability, reliable performance during high-speed processing and enhanced fabric durability.

SPINNING



The LMW Smart Advantage in Polyester Staple Fiber Processing

The processing of Polyester Staple Fiber (PSF) in both normal spinning and Spinpact - SIRO Compact Spinning, clearly establishes the superior performance capability of LMW machinery for Polyester Staple Fiber processing. By integrating advanced engineering, intelligent fiber control, optimized drafting systems, and compact spinning technology, LMW delivers a complete spinning solution capable of producing high-quality PSF yarns with outstanding consistency and efficiency.

LMW's SIRO Compact spinning technology with Spinpact attachment compared to normal ring spinning offers significant advantages including:

These advantages collectively help spinning mills achieve better operational profitability, improved customer satisfaction, reduced process losses, and superior fabric performance.

As the textile industry increasingly moves toward value-added synthetic and blended yarns, LMW Limited continues to empower spinning mills with smart, reliable, and future-ready spinning technologies. The proven performance of LMW SIRO Compact Spinning in Polyester Staple Fiber applications further reinforces LMW's position as a comprehensive spinning solutions provider capable of meeting the evolving demands of the global textile industry.

BARMAG
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TECHNOLOGY

Maintenance as a competitive advantage

Barmag's automated maintenance processes for quality, safety, and efficiency in spinning plants

Maintenance and service processes in chemical fiber spinning plants have a significant impact on product quality, equipment availability, and workplace safety. With three new retrofittable solutions, Barmag helps producers make manual work processes more efficient, safer, and more reproducible.

The portfolio includes the automatic knife sharpening machine, the wiping robot for automated spinneret cleaning both in filament spinning and in the staple fiber process, and the electric Spinpack changer for motor-assisted replacement of spinning packages. Together, these solutions aim to standardize maintenance processes and sustainably improve the performance of existing production facilities.

Automated cleaning for stable processes

The automatic knife sharpening machine ensures consistently high cleaning quality for spinnerets and helps producers increase the performance of their spinning systems. Standardized grinding results reduce process fluctuations, increase cleaning efficiency, and extend the service life of key components. This leads to reduced maintenance requirements, higher equipment availability, and improved productivity. Customer experience shows increases in the full-bobbin rate of up to 12 percent, in take up efficiency of up to 28 percent, and an extension of spinneret service life of up to 51 percent. At the same time, cleaning cycles can be reduced by up to 53 percent.

The wiping robot performs spinneret cleaning fully automatically both in filament spinning and in the staple fiber process. Its integrated rotating scraper blades are automatically resharpened in the parking station, ensuring consistently high-quality cleaning results over the long term. In addition to greater process stability, automated cleaning also contributes to an improved working environment: Silicon oil consumption is reduced, as is exposure to oil-containing aerosols in the production area.

Greater safety and ergonomics in maintenance

The electric Spinpack changer specifically addresses the issues of workplace safety and ergonomics. The mobile, electrically powered system facilitates the replacement of heavy and hot spinnerets, reduces physical strain, and enables precise installation with a defined torque. This minimizes safety risks and shortens downtime.

Retrofit automation for existing systems

A common feature of all three solutions is their nearly universal retrofit capability. Operators can modernize their production facilities in a targeted manner without significant modifications to existing lines. This provides a cost-effective entry point into the automation of maintenance and service processes, with measurable benefits for quality, efficiency, and workplace safety.

"There is significant potential for optimization not only in the production process itself, but also in the supporting maintenance and service tasks. Automating these tasks helps make existing plants more productive, safer, and more cost-effective to operate," explains Stefan Heesen, Senior Manager of Customer Services at Barmag.

TECHNOLOGY



Barmag's wiping robot contributes to greater process stability with its fully automatic spinneret cleaning.



Barmag's automatic knife sharpening machine ensures consistently high-quality grinding results, thereby helping to reduce process fluctuations.



The electric Spinpack changer assists operators in replacing heavy spindle nozzles, improves workplace safety, and reduces downtime for the spinning line.

TECHNOLOGY

India ITME 2026: How Barmag is reshaping the Future of Man-Made Fiber Production

A New Era. Powered by Innovation.



André Wissenberg
Vice President, Head of Barmag Marketing, Corporate Communications and Public Affairs

The textile industry is entering a groundbreaking era. Manufacturers face rising energy prices, growing sustainability demands, increasing labor shortages, and an unprecedented need for flexibility. For a globally active textile industry, where competitiveness is closely linked to production efficiency and cost leadership, this means that technology is no longer merely a means of improving operational processes – it is increasingly becoming a strategic differentiator. Against this backdrop, Barmag will present a innovation portfolio at India ITME that goes far beyond incremental machine upgrades. From December 4 to 9, 2026, Barmag's experts will be presenting next-generation spinning concepts, smart factory platforms, and groundbreaking technologies for filament, staple fibers and nonwovens at their booth C15 in Hall 10 at India Expo Centre & Mart in Greater Noida, Uttar Pradesh, India. In doing so, the company is laying the foundation for what it calls "A New Era" of textile production. At the center of this transformation stands one development in particular: Barmag POY 2.0.

Every few years, an innovation emerges that fundamentally changes how an industry thinks about production. Barmag believes POY 2.0 represents exactly such a moment. The new spinning concept is the result of a complete re-evaluation of the entire POY process chain, from spinning and quenching to winding, parallel with a digital process control. Rather than improving isolated components, engineers reimagined the interaction between all process steps.

The Dawn of POY 2.0

The outcome is a production concept designed to deliver measurable gains in quality, productivity, labor efficiency, and sustainability simultaneously. At the heart of the system is the new Barmag WINGS POY 2.0 winder, featuring an innovation the market has demanded for years: a fully automatic string-up function. This capability dramatically reduces startup times, minimizes waste generation, and lowers operator intervention requirements. In an environment where skilled labor shortages continue to challenge spinning mills worldwide, automation of traditionally labor-intensive tasks offers significant strategic value.

"For decades, productivity improvements in spinning were often measured in percentages. With POY 2.0, we set out to rethink the entire process from the ground up," said André Wissenberg, Head of Marketing, Corporate Communications and Public Affairs at Barmag. "The result is a solution that simultaneously addresses the industry's most pressing challenges: efficiency, quality, sustainability, and workforce availability. This is not a machine upgrade. It is a new production philosophy."

Engineering every Detail for greater Value

The innovations behind POY 2.0 extend far beyond winding. The newly developed DIO Spin Pack Generation 2 improves rheological

performance while delivering more homogeneous filament quality. Its significantly more compact design reduces filter sand consumption by approximately one-third and lowers component weight by more than 30 percent. The impact reaches beyond material savings. The redesigned spinning beam features reduced surface areas, leading to energy savings of up to ten percent.

Meanwhile, the latest Barmag EvoQuench 2.0 system simplifies process adjustments and optimizes filament quenching. Improved accessibility shortens setup times, reduces operator effort, and helps minimize off-quality production during product changes. The cumulative effect is an innovative production system that consumes fewer resources while producing more consistent yarn quality.

"Our customers are no longer looking at individual machine specifications," explained Wissenberg. "They are evaluating total operational performance. Energy efficiency, waste reduction, ease of operation and reproducible quality all directly influence profitability. Our solution POY 2.0 was designed around exactly these priorities."

From Smart Machines to Smart Factories

Yet perhaps the most important element of POY 2.0 cannot be seen on the shop floor. It resides in the digital ecosystem behind the machinery. Barmag's atmos.io platform represents the company's vision of the intelligent yarn factory. Every machine enters production with a digital core that continuously captures, analyzes, and distributes process data. Instead of fragmented information systems, atmos.io creates a fully connected manufacturing environment where every bobbin carries its own digital identity from polymer processing to warehouse storage.

Production managers gain unprecedented transparency across entire operations. Quality deviations can be identified early, process parameters can be optimized instantly, and decisions become data-driven rather than assumption-based. The platform's app-based architecture allows producers to select precisely the functionalities they require while integrating seamlessly into existing infrastructures.

"The future competition among yarn manufacturers will not be decided by who owns the most machines," said Wissenberg. "It will be decided by who can transform production data into actionable intelligence. atmos.io is enabling exactly that transformation."

The advantages are tangible: lower waste rates, more stable quality, reduced operator workload, and significantly improved productivity. For manufacturers pursuing Industry 4.0 strategies, atmos.io may prove as important as the machinery itself.

Flexibility becomes the new Productivity

Market volatility has changed production requirements fundamentally. Fashion cycles are shorter. Product portfolios are broader. Customers demand rapid changeovers without sacrificing quality or efficiency. Recognizing this shift, Barmag has developed WINGS FDY FLEX, a new winding concept specifically designed around maximum production flexibility.

The system offers a remarkably wide production window and supports rapid product changes across a diverse range of yarn types, including recycled polyester materials. This adaptability enables producers to react faster to market opportunities while maintaining optimized production economics. In a business environment where responsiveness increasingly determines profitability, flexibility itself becomes a productivity tool.

Texturing reinvented: The eFK EvoSmart

While spinning technologies continue to evolve, enormous opportunities also remain within texturing operations. Barmag's answer is the eFK EvoSmart, a machine concept developed to combine proven reliability with substantial improvements in operational efficiency. Through a combination of optimized process control, the

innovative EvoHeater system, and Smart Godet technology, the machine can reduce specific energy consumption by as much as 25 percent per kilogram of yarn.

Just as importantly, maintenance requirements decline dramatically. The replaceable heater inserts eliminate complex cleaning procedures, while the integration of optimized airflow systems doubles service intervals and cuts maintenance effort by up to 50 percent.

The result is greater machine availability, lower operating costs, and consistently high yarn quality. To further address automation needs in texturing operations, Barmag has partnered in June 2026 with India's Hitech Automation Solutions to integrate the Doffmatic solution into proven eFK systems. This retrofit-capable approach creates a practical pathway toward automation for producers seeking improved productivity without investing in fully automated lines.

Neumag Productline: Redefining Staple Fiber Production

Innovation is equally visible in Barmag's product line Neumag and its staple fiber portfolio. Its advanced EvoSteam process is designed to achieve two objectives simultaneously: substantial energy savings and improved fiber quality. Supporting technologies such as EvoDuct and EvE-2 optimize airflow management and monomer extraction, creating greater process stability and more uniform fiber properties.

At the same time, Neumag is extending automation into staple fiber production through the implementation of robotic spin pack cleaning technology. The advantages are immediate and measurable: consistent cleaning quality, longer service intervals, reduced labor requirements, and improved process reliability.

"Automation is not about replacing people," said Wissenberg. "It is about allowing skilled operators to focus on higher-value activities while ensuring greater process consistency and operational excellence."

Smarter Carpet Yarn Production

In the carpet sector, Neumag is introducing innovations that directly influence performance and sustainability. Its new BICO BCF technology creates a novel yarn structure capable of delivering enhanced carpet bulk and recovery performance while reducing face fiber consumption by approximately 20 percent. The result is a lighter carpet with premium performance characteristics and reduced raw material requirements.

Complementing this breakthrough is FiberGuard BCF, an intelligent sensor-based monitoring system that continuously measures yarn tension between twisting and winding. The software automatically adjusts production parameters whenever deviations occur, reducing waste and improving efficiency without manual intervention. Importantly, FiberGuard can be retrofitted onto existing BCF installations, making advanced process control accessible beyond new machinery investments.

Nonwovens: The next Frontier

As filtration, hygiene, and technical textile applications continue to expand, Neumag is also pushing boundaries in nonwoven production. Its patented hycuTEC technology enables meltblown materials to achieve electrostatic charging efficiencies of up to 99.99 percent using osmosis-treated water. This performance creates significant opportunities within demanding filtration applications.

Polycondensation and sustainability

And the first step in any man-made fiber spinning process for polyester, polypropylene, or nylon is the production of polymers into a high-quality homogeneous melt. Barmag Huitong Engineering's homogenization technology supports the thermomechanical recycling of post-industrial polyester waste, such as bottle flakes and film material, and lays the groundwork for high-quality rPET products. By specifically increasing viscosity, it is possible to produce

defined intermediate products for the manufacture of pellets, melt, or fibers for direct spinning. In addition to improved control over polymer quality, users benefit from greater independence from external raw material suppliers, higher value creation from the recycled material, and more sustainable production.

A strategic Opportunity

For the global textile industry, these innovations come at just the right time. Manufacturers are seeking ways to improve export competitiveness while addressing rising production costs, sustainability targets, and evolving customer expectations. The technologies presented at India ITME by Barmag and its product line Neumag offer a compelling answer: higher productivity without sacrificing quality, greater sustainability without compromising profitability, and increased automation without disrupting existing production models. Most importantly, they demonstrate how digitalization, energy efficiency, and intelligent automation can work together to create future-ready operations.

The beginning of "A New Era"

The textile industry's next chapter will not be defined by isolated technological advances. It will be shaped by integrated ecosystems in which machinery, software, automation, and sustainability function as one. With innovations ranging from WINGS POY 2.0 and atmos.io to eFK EvoSmart, EvoSteam, FiberGuard, and hycuTEC, Barmag is demonstrating a clear vision of that future. Or as André Wissenberg concluded: "The industry stands at a turning point. The producers who will lead tomorrow are those who embrace innovation today. Our goal is to give customers the technologies, intelligence, and confidence they need to succeed in a rapidly changing world. It's definitely 'A New Era. Powered by Innovation.'



Part of the new POY 2.0 spinning concept is the new WINGS POY 2.0 winder, which features an automatic string-up function for the first time.



POY 2.0 EvoQuench 2.0 Solution



atmos.io

TECHNOLOGY



WINGS FDY FLEX





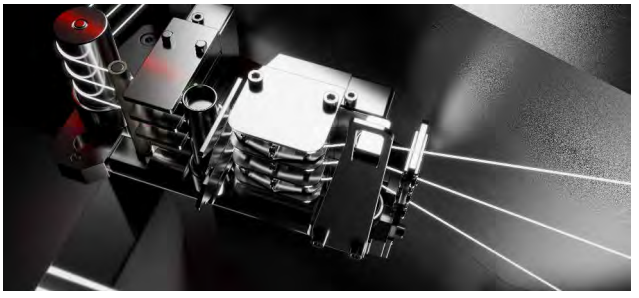
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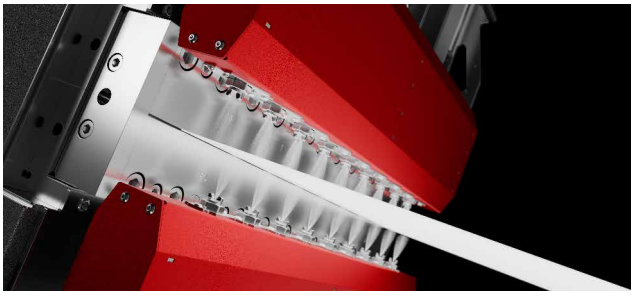
Barmag eFK Doffmatic



The Neumag EvoSteam process delivers not only significant energy savings but also even better fiber quality.



Neumag's FiberGuard BCF – an intelligent system combining sensors and software – measures yarn tension between the twisting and winding stages in real time.



Neumag hycuTEC

TECHNOLOGY

Cedro Têxtil and Brückner: Transforming Textile Manufacturing Through Innovation and Sustainability

A landmark partnership delivers over 20% natural gas savings, enhanced productivity and a stronger commitment to sustainable textile production.



Brückner stenter SFP-4 at Cedro Têxtil



The Team at Cedro Têxtil with Frank Bernhard (2nd from right), Brückner Agent in Brazil

With more than 150 years of industrial heritage, Brazil's Cedro Têxtil continues to prove that a proud legacy and a forward-looking vision can work hand in hand. Recognized as Latin America's largest manufacturer of workwear fabrics, the company is embracing advanced technology to strengthen efficiency, quality and sustainability through its partnership with Germany's Brückner Textile Technologies.

Following an extensive evaluation of international machinery suppliers, Cedro Têxtil selected Brückner for its advanced technology, process reliability, energy efficiency and dependable technical support.

The results have been impressive. The newly installed Brückner stenter frame has helped reduce natural gas consumption by more than **20%,** while increasing production speeds and maintaining consistently high fabric quality. Its uniform temperature distribution ensures excellent dimensional stability, particularly when processing demanding super-stretch fabrics.

The productivity gains have also transformed operations. After commissioning the new line, Cedro Têxtil was able to decommission three older stenter frames, reducing operating costs and optimising manufacturing processes.

Environmental responsibility remains a cornerstone of the company's strategy. Through sustained efforts and participation in Brazil's GHG Protocol Program, Cedro Têxtil has achieved an impressive 85% reduction in greenhouse gas emissions over recent years. Its investment in energy-efficient machinery further advances this commitment while strengthening its competitive position.

Founded in 1872, Cedro Têxtil produces over 60 million linear metres of fabric annually, serving manufacturing, healthcare, military and personal protective equipment markets. With more than 2,600 employees, it remains a significant force in Brazil's textile industry.

Looking ahead, the company plans further modernisation, potentially expanding its collaboration with Brückner.

This partnership demonstrates that innovation is more than technological advancement—it is a strategic investment in quality, environmental responsibility and long-term industrial success.

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GRASIM

100% NATURAL ORIGIN



Draping celebrations with soft, fluid moments.

Discover the timeless beauty of luxurious fabrics created with **Raysil®, Viscose Filament Yarn of 100% Natural Origin.** Raysil®, yarns made from premium wood pulp, gives fabrics rich lustre, vivid colour, superior drape and a feather-light feel.

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