



**PRECITEX**

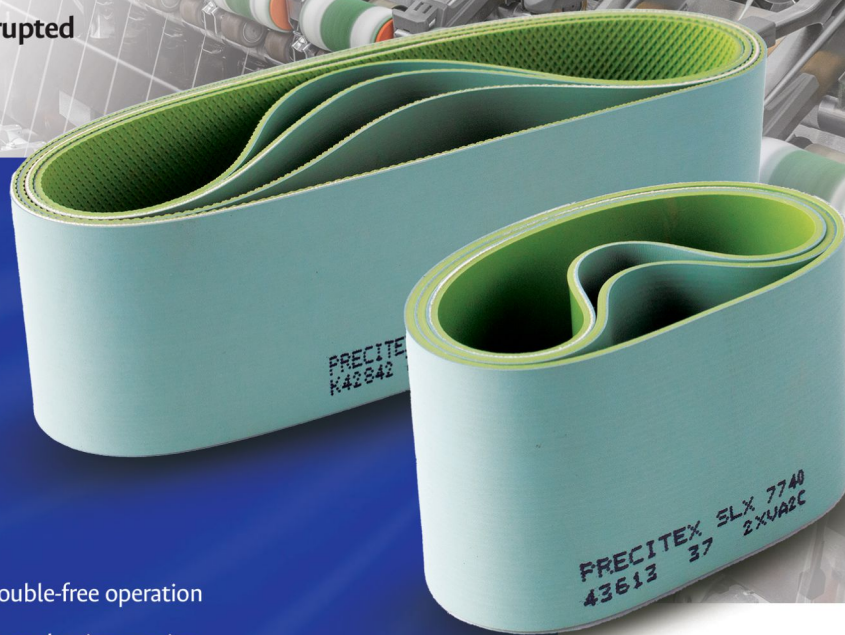
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The products catered by us to Textile Industry are

## ➤ **BOBBIN TRANSPORTING SOLUTIONS**

<https://youtu.be/NjQlkmjBHjM>

### **FIXED FEED**

To Transport Full Bobbins from Simplex to group of ringframes and Empty Bobbins back to Simplex

### **FLEXI FEED**

To transport full Bobbins from Any Simplex to Any Ringframe and Empty Bobbins back to Simplex

### **CREEL CHANGE**

To transport the bobbins from Simplex to Ringframe total row of creel and Empty Bobbins back to Simplex

## ➤ **CONE / CHEESE TRANSPORTING SYSTEM**

[https://youtu.be/sdRop\\_xeh8s](https://youtu.be/sdRop_xeh8s)

To Transport Cones / Cheese from Autoconer / Open end  
To Transport Cones / Cheese from Autoconer / Open end to Packing article wise  
to Packing article wise

## ➤ **RING BOBBIN TROLLEY**

<https://youtu.be/4DM1Cg9om20>

To Transport Ringbobbins from Ringframe  
To Autoconer

**CLEENTEX**

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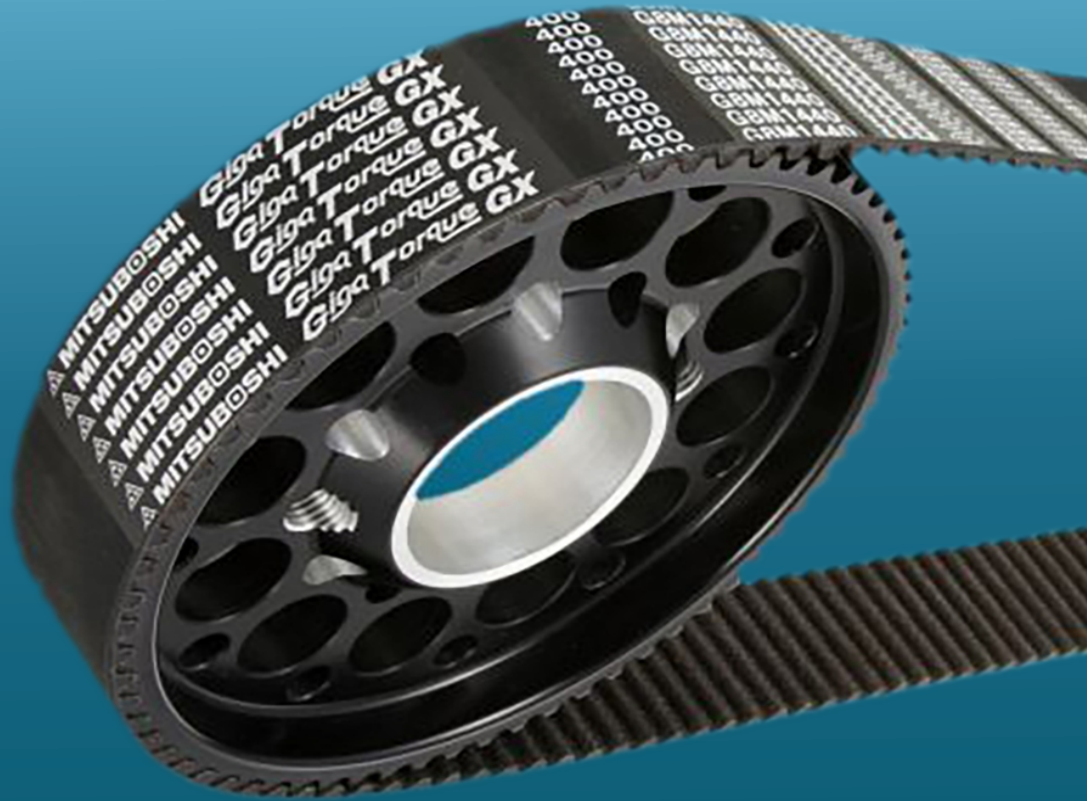
**YES TO – FAST RESPONSE. CUSTOMER SATISFACTION**

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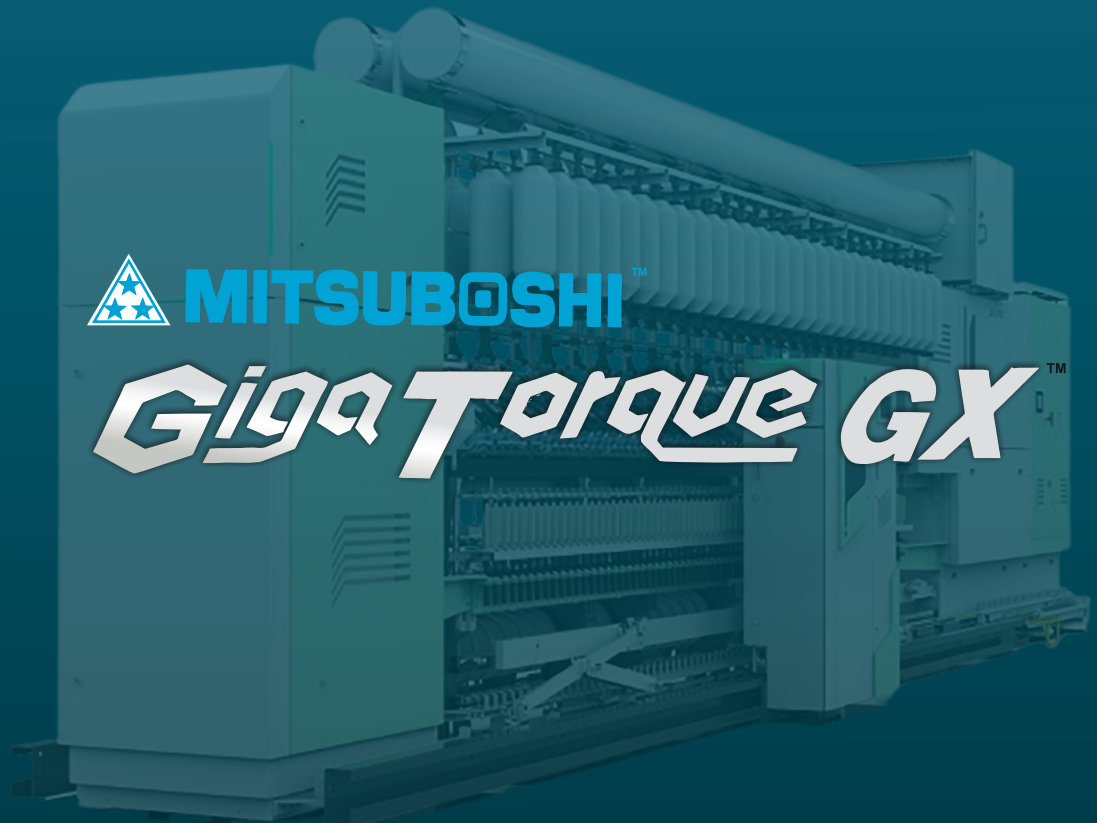
(F): SF 38/2, Arasur, Near LMW Foundry Division, Coimbatore 641 407

(O): 46, Bharati Nagar, Peelamedu, Coimbatore 641 004

T: +91 98947 56798 / 90470 22798 E: [mylonmetallics@gmail.com](mailto:mylonmetallics@gmail.com)



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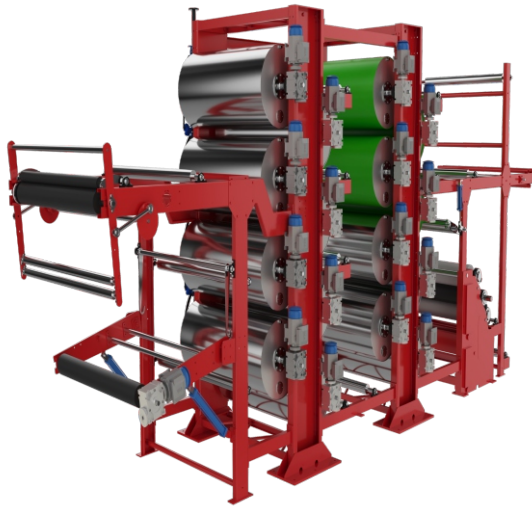


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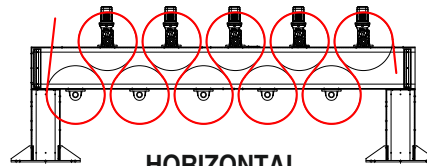
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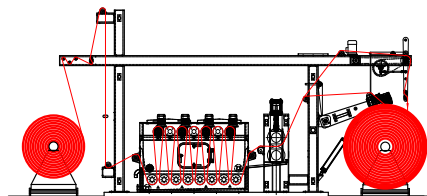




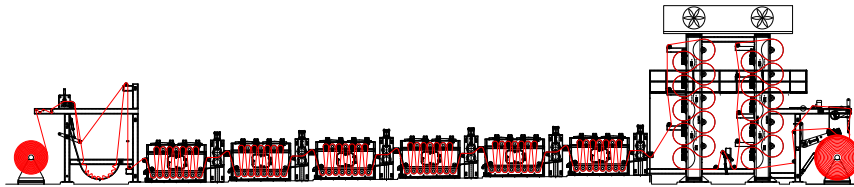
**VERTICAL DRYING RANGE MACHINE**



**HORIZONTAL  
DRYING RANGE MACHINE**



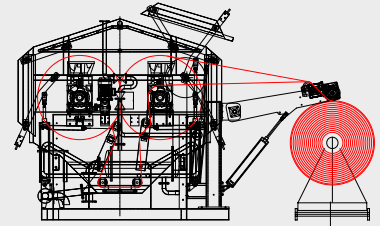
**DESIZING MACHINE**



**WASHING RANGE**



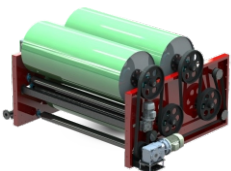
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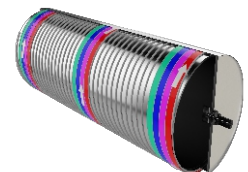
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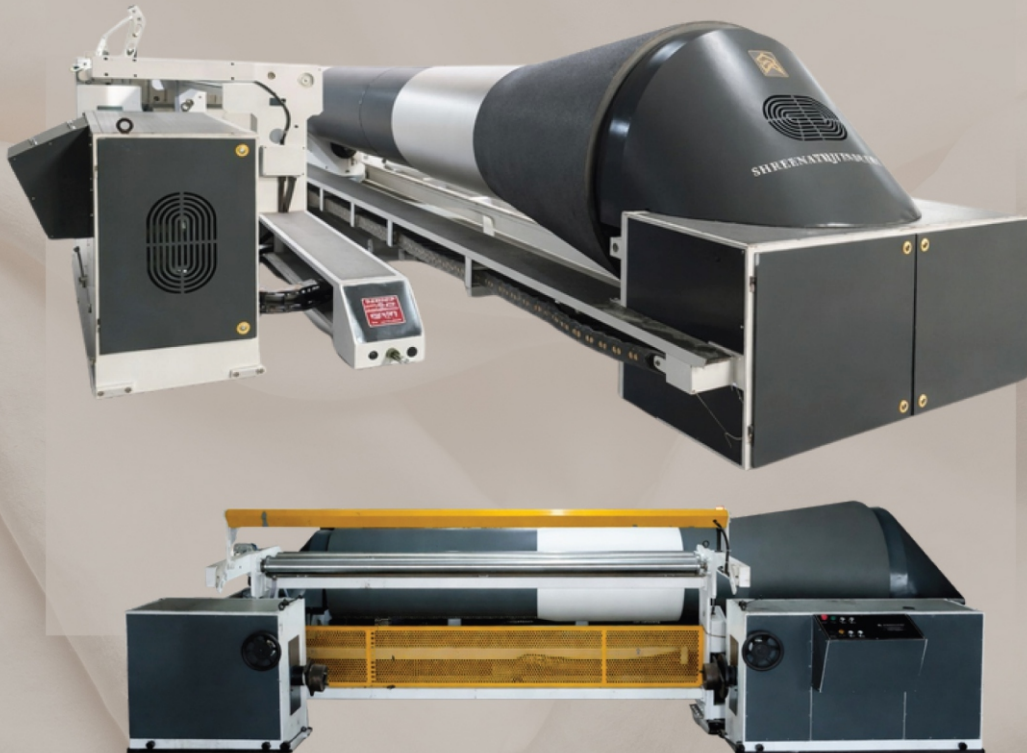


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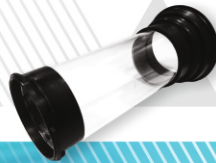






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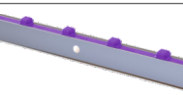
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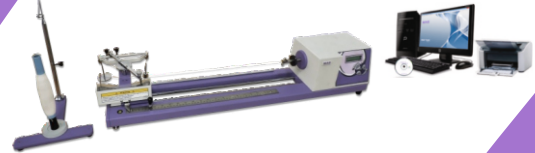
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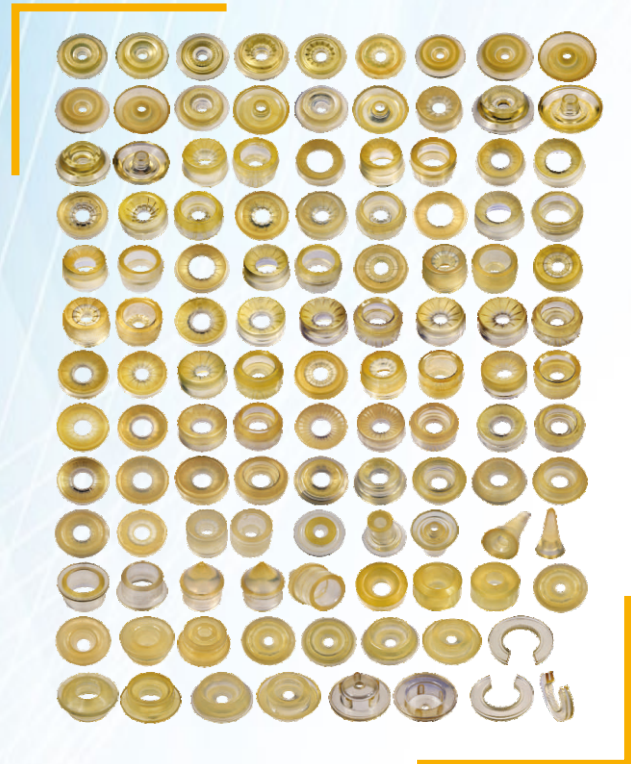
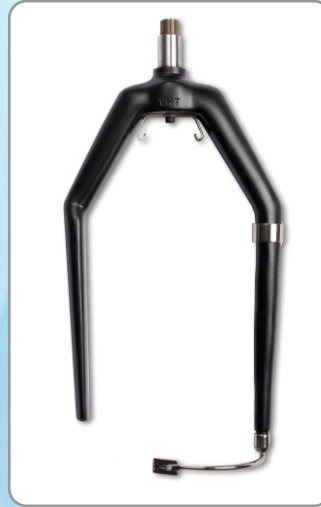
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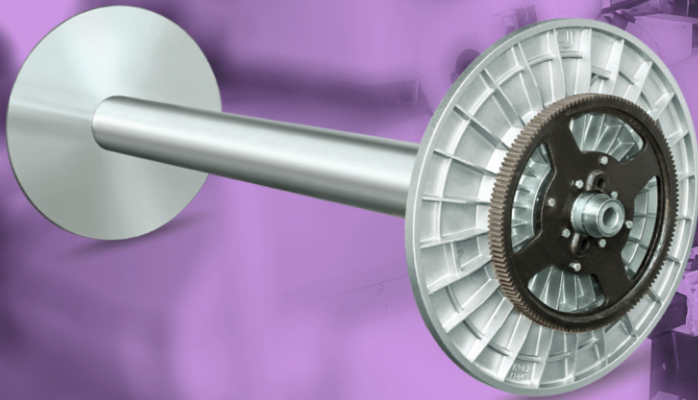
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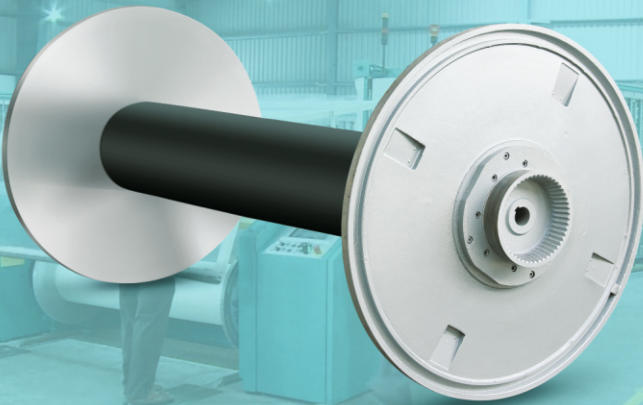


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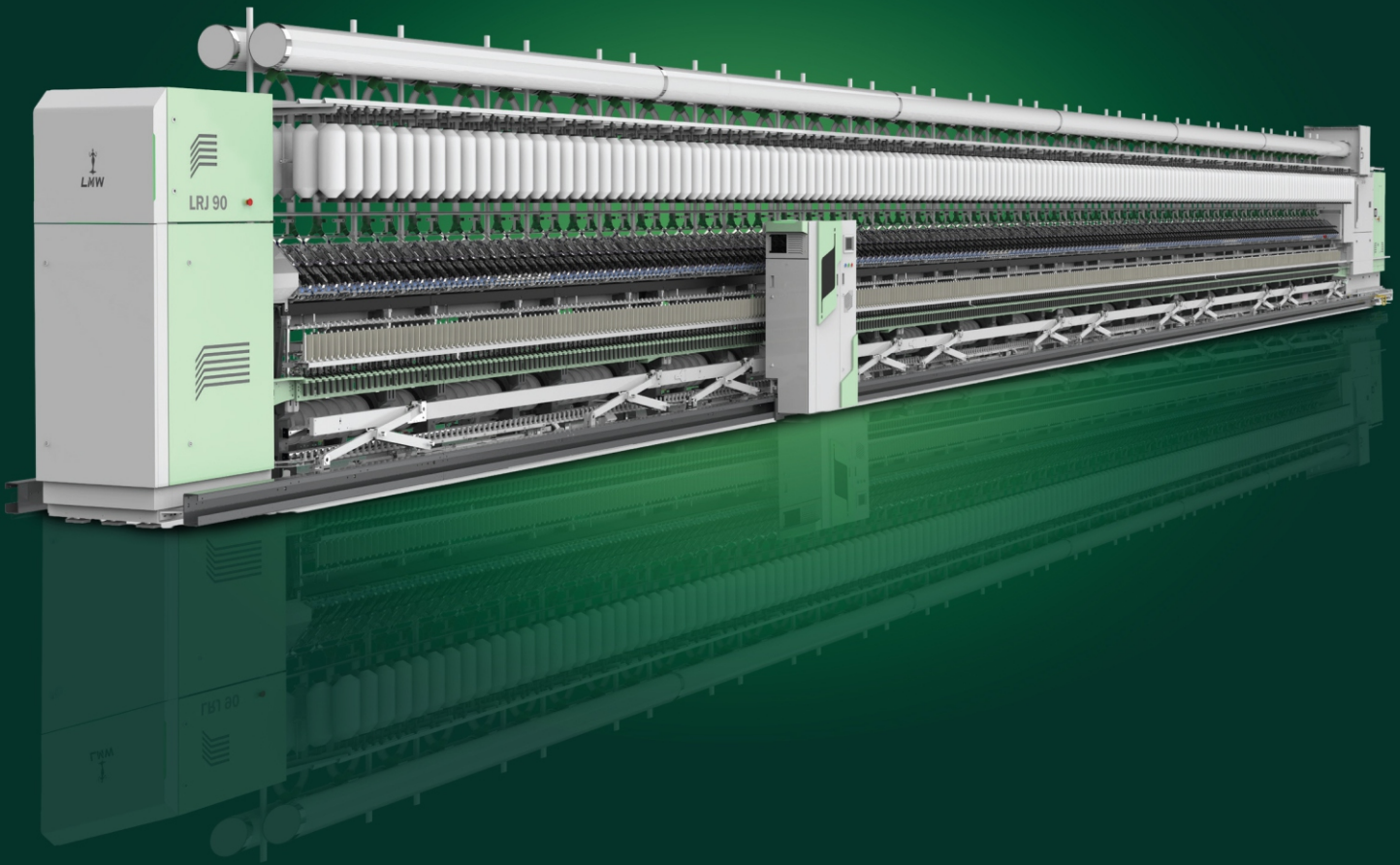
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Tecchno Group - 30 Years of proud Milestone represents shared success and enduring partnership with all stakeholders.

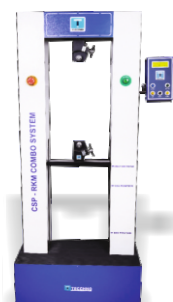
Tecchno looking forward to progress in the years to come for long successful journey with Experience as its Strength and Trust as its foundation and continue our close relationship with the Industry.



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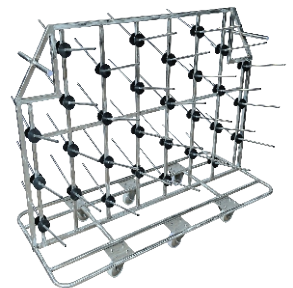
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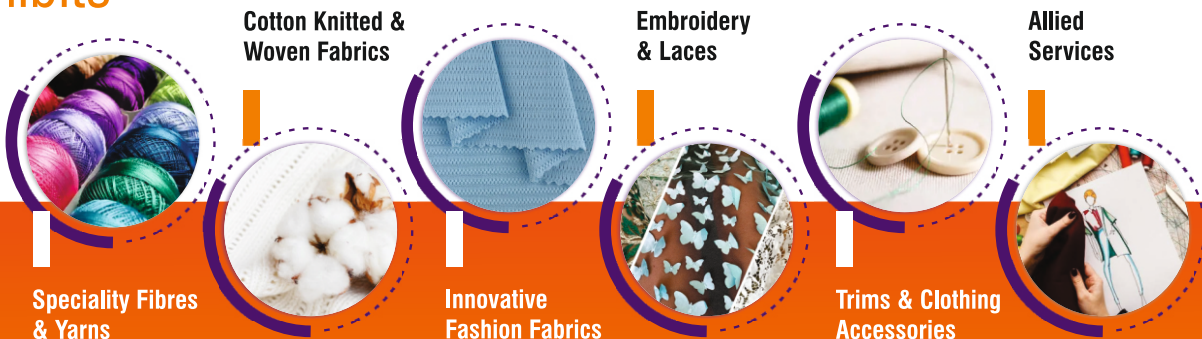
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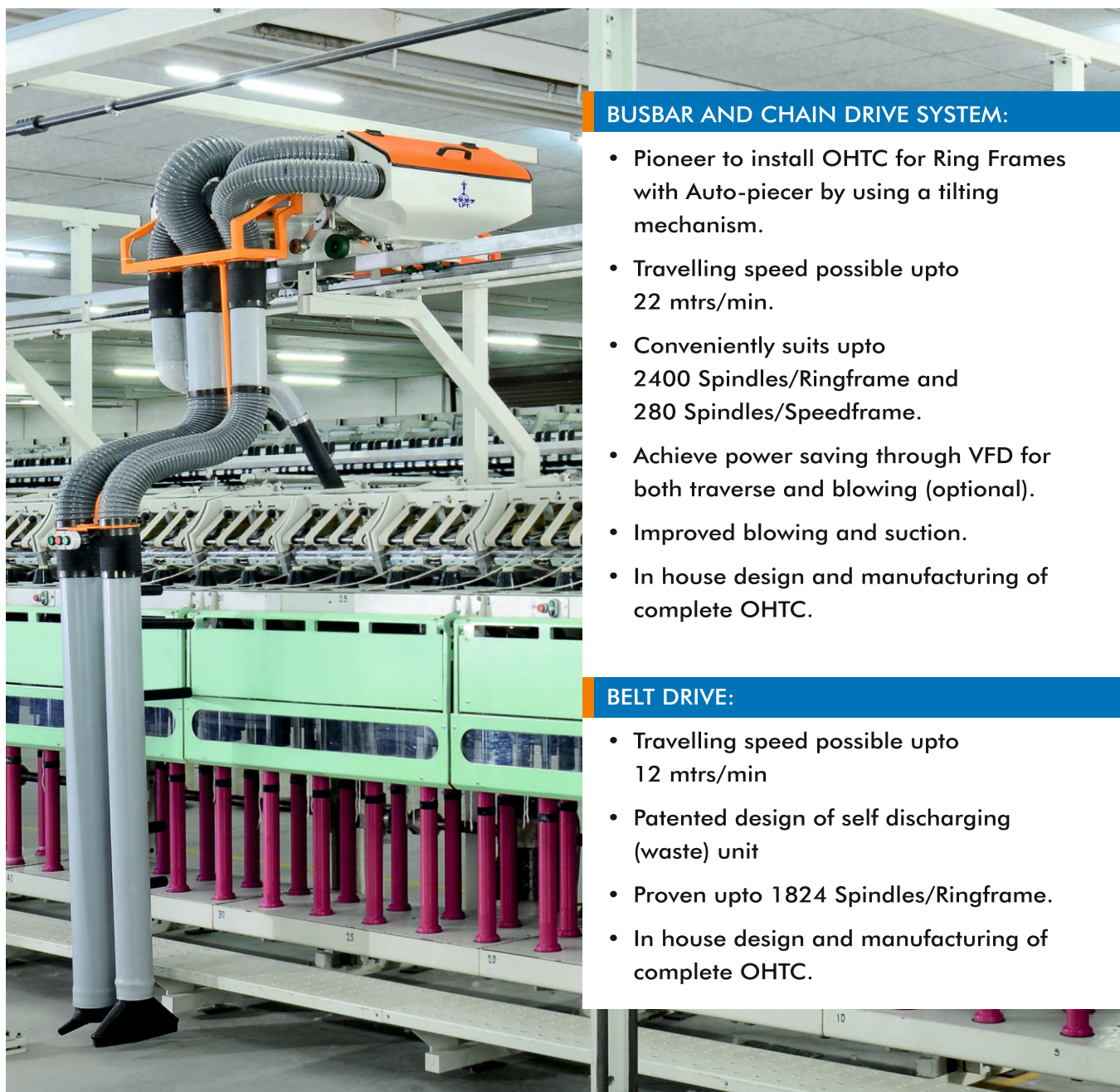
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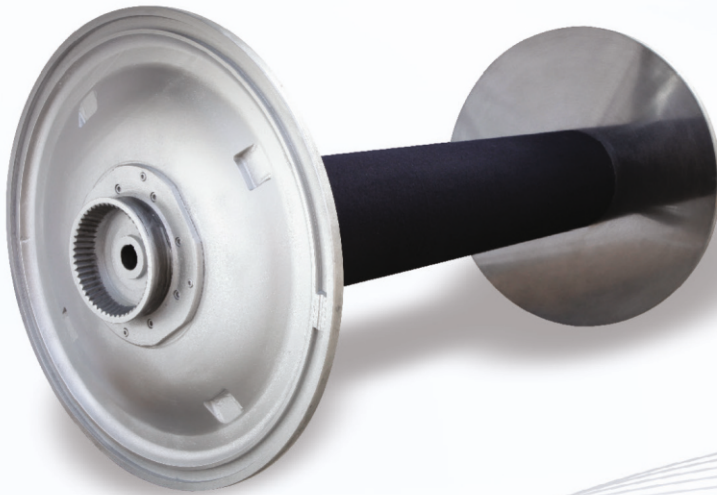
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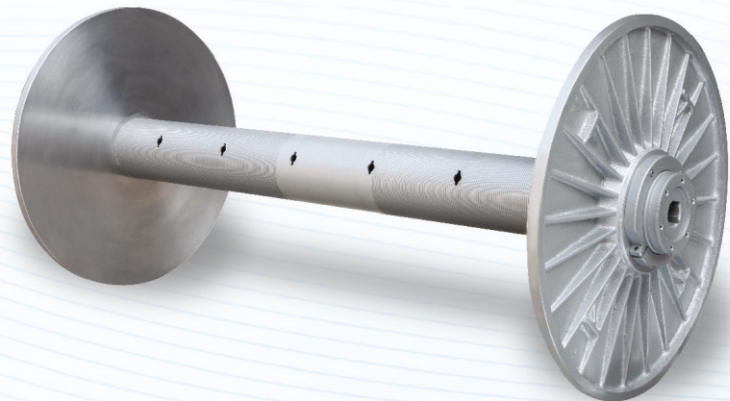
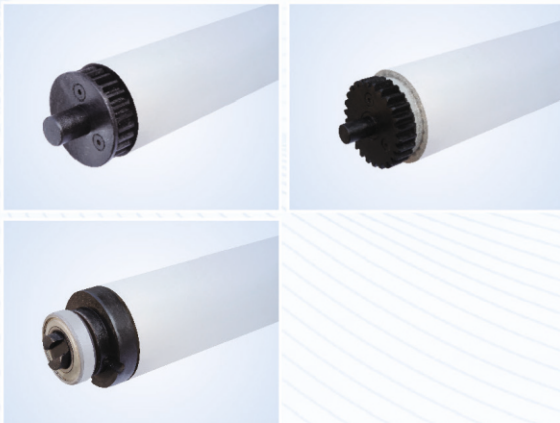
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### World's Largest Manufacturer of Compact Mesh Aprons

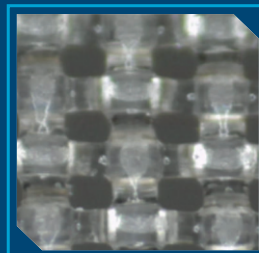
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网格圈密度与纱支对照表

Relations between apron density and spinning yarn count

| 网格圈密度<br>Apron Density | 目数<br>( 纬密/英寸 )<br>Latitude Per Inch | 网孔数<br>( 孔/CM <sup>2</sup> )<br>Mesh/CM <sup>2</sup> | 可纺纱支范围<br>( 支 )<br>Possible spinning<br>range of yarn count | 最佳适纺纱支<br>( 支 )<br>Best spinning range<br>of yarn count |
|------------------------|--------------------------------------|------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|
| A                      | 150                                  | 3500                                                 | > 30 <sup>°</sup>                                           | 70 <sup>°</sup> ~100 <sup>°</sup>                       |
| B                      | 140                                  | 3000                                                 | 20 <sup>°</sup> ~100 <sup>°</sup>                           | 50 <sup>°</sup> ~80 <sup>°</sup>                        |
| C                      | 120                                  | 2200                                                 | 10 <sup>°</sup> ~80 <sup>°</sup>                            | 20 <sup>°</sup> ~60 <sup>°</sup>                        |
| CD                     | 100                                  | 1600                                                 | 20 <sup>°</sup> ~100 <sup>°</sup>                           | 30 <sup>°</sup> ~80 <sup>°</sup>                        |
| D                      | 80                                   | 1000                                                 | Wool 毛纺                                                     | Wool 毛纺                                                 |





|                                                                                            |      |    |                                                                                                                                       |      |     |
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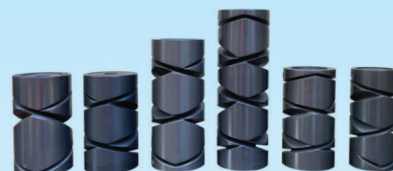


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### *Upcycling textile waste plays a key role in Indian fashion*

The Ghazipur landfill in East Delhi is hardly a place to hit the sense of ownership. Yet a someone having a motive of creativity looks around waste field in search of raw materials for his creative works. At a design school where sustainability conversation often centered on using 'Local Raw Materials'. What does local mean in an urban landscape defined by excess? It may soon become mountain of opportunities to a skilled designer. He can upcycle textile waste and turned it into yardage for apparel and home furnishing.

There are some studios run by skilled designers upcycle several metric tones of textile waste. It may be a drop in the Indian fashion wasteland where 7.8 million tones of textile waste is generated annually. There are some growing groups of designers and entrepreneurs in India who are rethinking fashion relationship with waste. From brands using deadstock to create high street fashion and accessories to studios developing upcycled textiles at scale, the practice is moving from niche experimentation to more organized approach. This switching comes at a time when the global fashion industry is under pressure to address its waste footprint. Some brands have built premium positioning not because they chase volume, but they carry out intelligent design intervention. They work with the constraints of waste creatively, developing strong visual languages, modular design systems and narrative-led collections that transform inconsistency into character.

But waste textile has not been easy where there was hesitation around upcycled garments. The initial challenge was psychological: Convincing consumers to pay for upcycled or preloved clothing. Today 90% of the brand's output is made from waste. Many designers say upcycling has always existed in Indian craft ecosystem with practices like quilting. Upcycling holds real potential in Indian fashion when it is approached restraint and intent. The future lies in how materials are developed and how design thinking is applied to them.

## WORLD ECONOMY AND TRADE TRENDS

### ➡ \$1.8 Tn, China ahead of Record budget deficit as welfare spending soars

China's government racked up a record budget deficit last year as spending on social Welfare grew at the fastest since 2017, marking a shift in fiscal priorities during months of trade tensions with the US. Broad expenditure climbed almost 4% from a year earlier, exceeding government revenue by ¥12.7 trillion (\$1.8 trillion), according to Bloomberg calculations based on data released by the Ministry of Finance recently. Combined outlays that cover areas from education and social security to healthcare rose 9.5% from a year earlier. The largesse stood out in a year defined more by fiscal restraint, as Beijing tried to balance support for the economy and households with efforts to curb local borrowing risks. The government spent a total of ¥40 trillion last year under its two main budgets, according to Bloomberg calculations, about 5% less than envisaged early last year. The last time China spent more than planned was in 2018, during the first trade war started by US President Donald Trump. The focus of spending shifted as authorities pledged more support for domestic demand, rolling out measures such as nationwide cash handouts to families as an incentive for couples to have children. But although overall spending grew at the fastest since 2020, the increase didn't fully go to prop up economic growth. A large chunk of the money went toward refinancing off-balance-sheet borrowing by local governments. With exports expected to stay resilient in the months ahead, the government may expand outlays only modestly this year as it struggles to boost revenue while continuing the campaign to defuse concerns about the debt amassed by provinces. Broad spending grew in the first half of last year as the authorities rushed to prop up domestic demand in anticipation of setbacks to exports from Trump's tariffs. □

### ➡ US trade gap shrunk in January by more than projected

The US trade deficit narrowed in January as exports increased, coming off of a turbulent year for domestic importers contending with

erratic tariff policy. The gap in goods and services trade shrank more than 25% from the prior month to \$54.3 billion, Commerce Department data showed recently. The median estimate in a Bloomberg survey of economists called for a \$66 billion deficit. Exports increased 5.5% in January from the prior month, fueled by outbound shipments of nonmonetary gold and other precious metals, as well as computers and aircraft. Overall imports fell 0.7%, reflecting a decline in pharmaceuticals. Trade flows last year were subject to large monthly swings as US importers reacted to a slew of tariff announcements from President Donald Trump. His administration has attempted to use higher import duties as part of a policy aimed at reducing reliance on foreign goods, encouraging domestic investment and reversing decades of manufacturing decline. □

### ➡ US announces \$20-billion reinsurance programme to ease trade

The Trump administration announced a \$20 billion reinsurance programme aimed at reviving shipping in the Strait of Hormuz. The US International Development Finance said recently it is deploying maritime reinsurance, including war risk, in the Gulf region to stabilise commerce. The facility will insure losses up to about \$20 billion "on a rolling basis" and will apply only to vessels for now, according to a statement. This comes days after President Donald Trump ordered DFC to offer insurance "at a very reasonable price" to ensure the flow of energy and other commercial trade in the Gulf as oil prices soar. His comments came after some governments, including the US, had suggested insurance availability was blocking transit. Trump also said the US military may escort ships in the Strait. □

### ➡ US economy weaker in January

US consumer spending barely rose in January after economic growth was weaker than previously reported at the end of last year, suggesting the economy lost some momentum before the war with Iran. Inflation-adjusted



## WORLD ECONOMY AND TRADE TRENDS

consumer spending increased 0.1% from December, according to data out recently, and a gauge of underlying inflation favored by the Federal Reserve rose a firm 0.4%. The government also halved its initial estimate of growth in the fourth quarter, when a record-long government shutdown, a slowdown in consumption and a decline in exports weighed on the economy. The backdrop has shifted dramatically since then. Payrolls fell in February while unemployment rose, reviving concerns about the health of the labor market. And the war has boosted energy prices and dented household sentiment in recent past, according to a new survey from the University of Michigan. □

### ➡ War shrinks fed path to a rate cut

The escalating conflict in the Middle East has narrowed the Federal Reserve's path to lower interest rates this year, as surging energy prices have injected fresh uncertainty into the economic outlook. Jerome H. Powell, the Fed chair, sought recently to keep the central bank's policy options open after officials voted to hold borrowing costs steady at their first meeting since the onset of the Iran war. But even as Powell tried to avoid sending an explicit signal in any direction about where rates might be headed, it quickly became clear that a cut this year is by no means guaranteed. Powell quickly jettisoned projections published by the Fed of late that showed a majority of policymakers supporting at least one quarter-point reduction by year's end. At a news conference, he said that officials had "no conviction" in their forecasts at a moment when it was unclear how long the war would last and, in turn, how long energy prices would stay elevated. The only other point that Powell seemed willing to stress about the Fed's latest estimates was that there was growing skepticism from several policymakers about the degree of support needed for the economy. Powell described rates, which are set at 3.5% to 3.75% as "borderline" restrictive, meaning the central bank's policy settings are only marginally weighing on economic growth.

That was the right place to be, he said, with inflation still too high for the Fed's liking, the unemployment rate relatively stable around 4.4% and the risks to both pulling in opposite directions. If rates are already close to a "neutral" level that neither speeds up nor slows growth, it will be hard to build the case for cuts without a meaningful deterioration in the labor market. In fact he made it clear that cuts were conditional on inflation moving back toward the Fed's 2% target this year, a process that could easily be disrupted by the war. "If we don't see that progress, then you won't see the rate cut," he said. Further complicating the Fed's plans is that Powell is slated to step down as chair in roughly two months if President Trump's pick for the top spot, Kevin M. Warsh, is confirmed by the Senate. That process has become much more complicated, however, because of a criminal investigation opened by the Justice Department against the Fed. □

### ➡ US wholesale prices for February surge 3.4% on High Food Costs

US wholesale prices came in hotter than expected in February, driven partly by a sharp increase in food costs. The Labor Department reported recently that its producer price index—which measures inflation before it hits consumers—rose 0.7% from January, and 3.4% from February 2025. The year-over-year increase was the most since February 2025. The price gains were bigger than economists had forecast, and they occurred before the US and Israel attack on Iran pushed energy prices sharply higher. "These are some mighty big increases, adding fuel to the political conversation about affordability," wrote Carl B Weinberg, the chief economist at High Frequency Economics. "And of course, energy prices will spike higher in the March report, thanks to the war in Iran and the blockade of the Strait of Hormuz." Oil prices have surged nearly 50% since the Iran war began, and gasoline prices are following close behind. The average price for a gallon of gasoline in the U.S. spiked again overnight, reaching \$3.84. A gallon gas in February, before the US and Israel attacked

Iran, was well under \$3. Diesel prices, used heavily in transportation, are rising even faster. Excluding volatile energy prices, so-called core wholesale prices rose 0.5% from January, down from a 0.8% gain the month before but more than twice what economists had expected. Compared with a year earlier, core prices rose 3.9%, the biggest jump since January 2025. Food prices rose 2.4% from January, led by a 49% surge in vegetable prices and a 10% increase in fruit prices. Food prices are still down compared with a year ago, but some economists see problematic trends developing on the inflation front, starting with the higher prices that producers are now paying. Wholesale inflation also rose unexpectedly in January. The January numbers could be written off as a blip, said Stephen Stanley, the chief U.S. economist at Santander. In commentary recently, he called the surge in wholesale prices in February a “sign of trouble.” Stanley said companies have largely been absorbing higher costs that have arrived following tariffs implemented by the Trump administration. “The problem is the (producer price index) is signaling that this is not a one-off wave of costs that would necessitate a single set of consumer price adjustments,” Stanley wrote. “Instead, the pipeline pressures continue to build.” □

### ⇒ **Lawmakers in EU set to implement U.S. trade deal**

EU lawmakers took recently a key first step towards implementing a trade deal with the United States, put on hold after the Supreme Court struck down many of President Donald Trump’s tariffs. The European Parliament’s trade committee voted to cut EU tariffs on some U.S. imports as provided under an August deal that Brussels has vowed to stick by — but attached additional safeguards, lawmakers said. “The tariff reductions will only take effect once the U.S. has resolved the chaos following the Supreme Court’s ruling,” Green lawmaker Anna Cavazzini said. The future of the EU U.S. pact was thrown into question after the court ruled in February that Mr. Trump lacks the authority to impose levies under a 1977 law. Mr. Trump

responded with fresh duties but that raised complex questions about the implications for the EU deal, which had set tariffs at 15% for most EU goods. The European Parliament, which has a say on implementing the EU side of the accord, pressed pause on the process in February seeking clarifications. The European Commission said the EU would abide by the pact and had received reassurances the United States would do likewise. □

### ⇒ **Europe launches ‘EU Inc’ to rival US, China**

The European Union has unveiled a red-tape-cutting plan dubbed “EU Inc.” to boost the emergence of companies that could compete on the world stage with US and Chinese rivals. The linchpin of the European Commission’s proposal is a set of measures to allow firms to incorporate once under a single EU-wide regime and operate seamlessly across the 27-member bloc. It also includes the possibility for companies to set up EU-wide employee stock option plans—with taxes being levied on income generated only once stocks are sold. “We are making it drastically easier to start and grow a business all across Europe,” commission President Ursula von der Leyen said in a statement recently. “Any entrepreneur will be able to create a company within 48 hours, from anywhere in the EU, and fully online.” The commission, the EU’s executive arm, is betting that reducing administrative burdens and increasing legal certainty will make the bloc more attractive to startups and investors, while helping homegrown firms scale more effectively. Other parts of the package include fully digital incorporation procedures, streamlined governance and tax rules, and no minimum share capital requirements. Politically, the step reflects mounting concern about Europe’s ability to compete with the US and China, particularly in attracting high-growth companies. Brussels has framed the initiative as part of a broader effort to make Europe the easiest place in the world to start and grow a business. ■



# INDIAN ECONOMY AND TRADE TRENDS

## ⇒ ₹1 trn stabilisation fund to provide fiscal headroom: FM

The ₹1-trillion Economic Stabilisation Fund will provide fiscal headroom to India to respond to global headwinds, such as the recent war in West Asia. It would also provide support during unanticipated supply chain disruptions and shocks to sub-sectors in the economy without deviating from the fiscal consolidation roadmap. Finance Minister Nirmala Sitharaman told the Lok Sabha recently. Replying to a discussion of the second supplementary demand for grants, the finance minister said the fund is proposed to be met partly through existing appropriation and additional allocation. "The commitment given in this House inclusive of the second supplementary demand for grants will be within the fiscal deficit target presented in Parliament," Sitharaman said amid Opposition members sloganeering over LPG shortage concerns. To meet any sudden economic shocks, the finance ministry doubled the allocation for the fund to ₹1 trillion for FY26 as part of the second supplementary demand for grants tabled in Parliament recently. It also allocated an additional of ₹19,230 crore on account of the fertiliser subsidies and ₹23,640 crore for food subsidies for FY26. The second batch of the supplementary demand for grants was passed in the Lok Sabha. The FM told Parliament that there will be no shortage of fertiliser supply for farmers and the government was taking steps keeping the upcoming Rabi crop in mind. She said that the government was ramping up the supply of urea through increased domestic production as well. The ministry sought the approval of Parliament for a gross additional expenditure of ₹2.81 trillion involving a net cash outgo of ₹2.01 trillion, through the second supplementary demand for grants for FY2025-26. Sitharaman said, "There is no increase in expenditure beyond the budget estimates (BE) of 2025-26 due to the second supplementary." In the revised estimates (RE) for 2025-26, fiscal deficit has been estimated at 4.4 per cent of GDP, which is the same as the BE. The finance minister also highlighted that the Jal Jeevan Scheme, which will run till December 2028, would

receive ₹8.69 trillion, in which the share of the Centre stands at ₹3.59 trillion. □

## ⇒ India has preferential access to two-thirds of global trade: Goyal

Even as the world grapples with uncertainty, India is focused on building "bridges of trade, bridges of trust and bridges of transformation" through a network of high-quality free trade agreements (FTAs), Union Commerce and Industry Minister Piyush Goyal said recently. Addressing the valedictory session of the Confederation of Indian Industry's 5th National Exports Competitive Summit 2026 virtually, the Minister said India today enjoys preferential trade access to nearly two-thirds of global trade and is actively negotiating multiple FTAs simultaneously. "In a span of six hours this evening, I have been engaged with three free trade agreement negotiations," he said. India recently signed a joint statement to launch FTA negotiations with the six-nation Gulf Cooperation Council, while talks with Israel to finalise a bilateral FTA are at an advanced stage. New-age FTA discussions are also underway with Chile, focused on securing access to critical minerals. Goyal said that with the Canadian Prime Minister expected in India shortly, both countries were hopeful of finalising terms of reference and launching FTA negotiations to be held recently. The Minister said Prime Minister Narendra Modi has built a strategic FTA network as part of India's de-risking strategy through diversified trade partnerships. "Merchandise trade with Australia and the UAE has doubled since the signing of FTAs with these countries," he said. All nine FTAs concluded under the current government have been with developed economies that complement India's growth journey, he added. Goyal urged industry leaders to take FTAs to the grassroots by creating awareness among MSMEs about tariff benefits, services access and investment opportunities. He called for physical outreach, training programmes and mentorship models, suggesting that companies adopt districts or clusters to build local export ecosystems. "When an MSME understands how a tariff cut can open new markets, it will make him a new exporters," he said. India's export

growth story, he said, is ultimately about confidence, resilience and aspiration. "Every Indian — from the weaver in Kanchipuram to the entrepreneur in Chennai — is now a potential global exporter. Our task is to ensure the pathway is clear, support is accessible and opportunity is real," he added. □

### ► In Asia, India made best trade deal with US: Goyal

India has secured the best trade deal with the US compared to its competing nations, and the two countries share a "very powerful" relationship, commerce and industry minister Piyush Goyal said recently. India, he said, is building a worldwide web of trade partnerships. Stressing that the \$30 trillion US economy is the world's largest and one that can't be ignored, Goyal said, "It has been a fantastic journey." "We have the best of relations. You would have observed that through the last year, President Donald Trump has always had the best of things to say about India as a country, and about Prime Minister (Narendra) Modi. We have fantastic relations with our counterparts there," he said. Addressing the Raisina Dialogue 2026, Goyal also said that "ultimately, a trade deal is about preference over your competition." "Even within your family, sometimes you can have one or two misunderstandings," he said. "It's a part of the course. I think it's a very, very powerful relationship that the US and India share. And we got the best deal amongst all the nations with whom we compete," said Goyal when asked about India's trade ties with the US. He added that both countries are strategic partners and the largest democracies in the world. "We have large responsibility cast on both our nations," said Goyal. "They are the world's largest economy, \$30 trillion economy, nobody can wish them away," he said, adding that ultimately a trade deal is about preference over competitors. Insisting that India got the "best deal amongst all of the competitors" in the Asian region, Goyal said, "What's a trade deal? You are trying to get a preference or a preferential access for yourself, your goods, your services, compared to your competitor." □

### ► India seeks to retain tariff edge over Asian peers in US trade deal

In its trade deal with the United States (US), India is likely to insist on retaining a tariff advantage over its Asian peers, seeking to preserve the gains in relative market access it secured before the American Supreme Court struck down the country-specific tariffs imposed by the Donald Trump administration. Before the ruling, India had negotiated an 18 per cent tariff with Washington — a rate lower than that for Indonesia (19 per cent), Bangladesh (19 per cent), Pakistan (19 per cent), Vietnam (20 per cent), and China (34 per cent). "Our deal with the US was designed in a way that we had a comparative advantage over our competitors. We will insist that it not be disturbed when the deal is finalised," a government official said. A team headed by India's chief trade negotiator for the US, Darpan Jain, had to postpone the visit to Washington DC recently to finalise the legal text for the negotiated interim trade deal amid the uncertainty surrounding the tariff situation following the Supreme Court judgement. However, US Commerce Secretary Howard Lutnick recently met India's Commerce and Industry Minister Piyush Goyal in New Delhi during a personal visit and held "highly productive" discussions. A day later, Goyal said India was closely watching the evolving situation following the court verdict, and would continue to engage with Washington for the best possible opportunities in the interim trade deal. Starting recently Trump imposed a blanket 10 per cent rate on all countries for 150 days under Section 122 of the Trade Act, vowing to raise it to the permissible ceiling of 15 per cent. He also ordered new investigations under other laws that could allow him to reimpose laws that could allow him to reimpose tariffs agreed under trade deals. Treasury Secretary Scott Bessent recently said the Trump administration was likely to raise the 10 per cent additional global tariff to 15 per cent soon. ■



## Tiruppur knitwear industry asks for Centre's aid for worker housing to retain labour

With India signing a series of free trade agreements (FTAs), the knitwear industry in Tiruppur has sought the Centre's support for the construction of large scale affordable rental housing for workers, citing growing challenges in labour retention.

Industry sources said organised worker accommodation is critical to attract and retain labour as Tiruppur is expected to see a sharp increase in hiring over the next few months following higher order inflows triggered by the FTAs and the recent tariff changes announced by the US.

At present, individual companies arrange accommodation for employees. However, exporters are now willing to pool resources and develop large hostels with government support.

The proposal draws inspiration from the large housing facilities built for mobile phone manufacturing units in the Organisation Sriperumbudur industrial cluster, leveraging the affordable rental housing component under PMAY-U 2.0.

According to the Tiruppur Exporters' Association (TEA), the estimated cost of establishing hostel facilities is around ₹2 lakh per bed.

It has proposed hosted capacities ranging from 250 to 1,000 beds, and has sought the removal of the 18 per cent GST on rent deducted towards workers' accommodation.

Tiruppur employees nearly 10 lakh workers, of whom 3.5-4.5 lakh are migrants from 19 States.

Women account for nearly 70 per cent of the workforce. Nearly one lakh workers commute daily from nearby districts.

### Major Hurdle

"The lack of organised, affordable housing has become a major constraint in sustaining growth and meeting export commitments," said N Thirukkumaran, Chairman, Esstee Exports India Ltd. Tiruppur, and Secretary of TEA.

In a representation to the Centre, the association said investment in worker housing will yield tangible productivity gains.

A company official said housing is essential to ensure business continuity, retain skilled workers and meet delivery schedules. ■

## Epson India sees textile and label printing contributing 10-12% of revenue in 3-4 years

Epson India is recalibrating and betting on its newer industrial printing segments —textile and labelling— to drive the next phase of growth in the country, with the company expecting these businesses to contribute a meaningful share of revenue over the next few years.

Samba Moorthy, President, Epson India, told reporters that the segment, though currently small, has been expanding rapidly.

"The potential for textile and label printing in India is phenomenal. Over the next three to four years, we expect the segment to continue growing at over 30-40 per cent annually. While it is coming off a low base, it could contribute close to 10-12 per cent of Epson India's overall revenue", Moorthy said.

Epson India reported revenue of about ₹2,500 crore last year, and the company expects steady growth over the next few years, driven by demand across consumer, enterprise and industrial segments.

"Our growth over the past four to five years on a CAGR basis is in excess of 7-8 percent," Moorthy said. "We aspire to grow at around 12 per cent in the next three years as part of our mid-term growth plan."

### Expansion Plan

The company is also expanding its presence in industrial printing applications such as textile, labelling and signage, areas where digital printing adoption remains relatively low.

"Digital printing adoption in textiles is still around 5-6 per cent or less than 10 per cent at this stage, which represents a significant opportunity," he said.

Epson is positioning its digital textile printing technology as an alternative to conventional rotary printing processes, which tend to involve higher water usage and chemical waste.

### Strong Traction

Alongside industrial printing, Epson continues to see strong traction in its core printing business. Its EcoTank printers, ink tank printers using continuous ink supply systems, remain a major revenue driver for the company.

Moorthy said that Epson currently holds more than 50 per cent market share in the EcoTank printer category in India. ■

## Man-made fibre industry comes under strain due to inverted GST structure

The inverted GST structure has been pushing up costs in the man-made fibre industry, particularly when the global geopolitical tensions and fast-evolving US duty structure have rattled the export markets.

In polyester, which accounts for nearly 60 percent of global fibre demand, the raw material polyethylene terephthalate polymers are taxed at 18 per cent, while finished polyester yarns attract a GST of only 5 percent.

Similarly, distortion exists in the viscose staple fibre (VSF) value chain, where rayon-grade wood pulps are taxed at 18 per cent, compared to 5 per cent on the finished fibre.

The inversion in tax structure raises input costs for domestic manufacturers and erodes their competitiveness in the global markets.

The inverted duty structure notwithstanding, finished VSF is being imported from ASEAN countries at zero duty, while Indian producers continue to pay an effective duty of about 2.5 per cent on their primary raw material, rayon-grade wood pulp. This duty inversion further tilts the compensative landscape in favour of imports.

In addition, Indian VSF manufacturers pay duties on essential inputs such as sulphur and natural gas, whereas competitors in countries such as Indonesia enjoy zero-duty access to these raw materials, conferring a significant cost advantage, said a GEO of leading textile company.

Moreover, competing countries have an upperhand with greater access to the Indian market, as the recent rollback of quality control orders on VSF is expected to open up import of poor-quality consignments he added.

Cost pressures are further exacerbated by logistical fragmentation. Unlike the integrated, plug-and-play industrial ecosystems seen in countries such as China, India's textile value chain is geographically dispersed across multiple States.

SP Katnauria, Secretary General, Association of Man-Made Fibre Industry of India, said short-term price advantages from imports should not be mistaken as progress towards long-term export competitiveness.

True competitiveness comes from robust upstream and downstream domestic capacity, capability and investment confidence across the value chain, he added. ■

## Cotton procurement at MSP surges 4% to cross over 104 lakh bales

Procurement of cotton at the minimum support price (MSP) by the state-run Cotton Corporation of India (CCI) for the ongoing 2025-26 marketing season has crossed 104 lakh bales (of 170 kg each), about 4 per cent higher than last year's 100.16 lakh bales.

The Cotton procurement season is nearing completion, with March 13 being the last date for MSP purchase.

Lalit Kumar Gupta, Chairman and MD, CCI, told reporters that procurement had reached 104.01 lakh bales so far. The CCI has also started liquidating part of the stocks.

### Telangana Leads

Gupta said the agency had sold about 17.5 lakh bales from the 2025-26 crop so far.

Among the States, Telangana tops the list where the maximum quantity of cotton has been procured, followed by Maharashtra and Gujarat.

The CCI has purchased 31.70 lakh bales in Telangana and 27.23 lakh bales in Maharashtra. In Gujarat, procurement so far stands at 19.96 lakh bales.

Karnataka is the fourth largest State in procurement with 7.01 lakh bales. In Madhya Pradesh, procurement

has crossed 5.55 lakh bales, while Andhra Pradesh has recorded 3.9 lakh bales. In Rajasthan, the quantity procured stands at 3.46 lakh bales.

The CCI has purchased 2.7 lakh bales in Odisha, 2.04 lakh bales in Haryana, and 0.47 lakh bales in Punjab.

Cotton procurement during 2025-26 is likely to be the second-highest since 2019-20, when the state agency procured over 105 lakh bales. Last year, the CCI procurement stood at about 100 lakh bales.

### Estimates Diverge

According to the Second Advance Estimates released recently by the Agriculture Ministry, cotton production in 2025-26 is pegged at 290.91 lakh bales, lower than last year's 297.24 lakh bales, mainly due to reduced acreage and crop damage from excess rain.

However, the Cotton Association of India (CAI) recently revised its crop estimate upward by around 2.5 percent to 317 lakh bales, citing higher-than-expected output in Maharashtra and Telangana.

The CAI projected a year end surplus of 122.59 lakh bales for the 2025-26 season, 56 per cent higher year-on-year, driven by record imports of about 50 lakh bales during year. ■



## Cotton may stay as mainstream fibre : ICAC

Cotton will continue to remain a mainstream fibre as many applications still prefer the natural fibre for its comfort, breathability and natural characteristics, despite its share in the global fibre consumption declining.

According to the International Cotton Advisory Council (ICAC) World Textile Demand report, cotton's market share in global fibre consumption has dropped to below 25 per cent in recent years from nearly 40 per cent in the early 2000s.

The US Department of Agriculture said: "This limits the potential growth for cotton product imports despite record consumer demand for apparel and home textile. Competition with MMF (man-made fibre) products is especially challenging with respect to Chinese MMF product exports." According to Prabhu Damodharan, Convenor, Indian Textpreneurs Federation (ITF), cotton's decline in global fibre share has been gradual and structural, mainly driven by two factors.

### Two Factors For DIP

The first is the cost dynamics favouring synthetic fibres such as polyester. The second is significant improvement in the functionality of alternative fibres, particularly polyester and cellulosic fibres such as viscose, he said.

Ramnuj Das Boob, Vice President of All India Cotton Brokers Association and a sourcing agent in Raichur, said the issue is not necessary declining cotton demand, but faster growth of competing fibres. The modern textiles sector is increasingly using blended fabrics such as cotton plus polyester, cotton plus elastane, cotton plus viscose, lycra and recycled yarn, he said.

### Competing With MMP

The USDA said competition with MMF products is especially challenging with respect to Chinese MMF product exports.

Dhamodaram said: "While these factors have reduced cotton's share in the overall fibre basket, cotton will continue to remain a mainstream fibre because many applications still prefer it for its comfort, breathability and natural characteristics."

Das Boob said cotton will remain indispensable in apparel and home textiles.

"Demand will not collapse, but growth will be slower than that of synthetic fibres," he said.

Though the share of cotton is falling demand has been stable, said the All India Cotton Brokers Association Vice-President. "The pie is growing, but cotton's slice is shrinking. Blended yarns are increasing globally, Spinners are increasingly producing poly-cotton yarns," he said.

### Indian Perspective

The future of cotton lies in quality, sustainability and productivity improvements, said Das Boob.

The ITF Convenor said from India's perspective, improving yield per hectare in cotton is critical, "Higher productivity can enhance farmer incomes, and at the same time ensure that cotton prices remain reasonable, helping cotton retain its competitiveness with other fibres," he said.

Anand Popat, a Rajkot based cotton, yarn and cotton prices higher during the period, leading to a drop in the natural fibre's market share. ■

## Innovative works brings weaving sustainability and social changes

Anu Mandal is a seasoned social innovator, entrepreneur, and community impact influencer whose work bridges tradition, sustainability, and empowerment. She is the Founder & Chairperson of AVA Creations Social Impact Foundation, an initiative dedicated to transforming the lives of forest-dependent communities in Northeast India. Through sustainable livelihoods in handloom weaving, sericulture, bamboo crafts, and eco-tourism, her foundation nurtures both economic independence and environmental conservation.

Since its inception in 2021, AVA Creations has made a remarkable impact empowering over 385 women artisans, establishing three community weaving centers, and building partnerships with 18 retail outlets across India. Flagship programs like Maa Xuta Prakalpa, Forest Weave, and SAMARTH Weave have not only preserved traditional crafts

but also given artisans access to larger markets, ensuring dignity, stability, and growth for marginalized communities.

Before founding AVA Creations, Anu served as Director of the AVA Group, where she spearheaded inclusive initiatives spanning fashion, events, and sports, highlighting her versatility and vision. Her career began in academia, where she taught fashion and textiles, instilling in students a deep appreciation for cultural heritage and sustainable practices.

Anu's efforts are backed by collaborations with prestigious organizations such as the Tata Group and the Central Silk Board, reflecting her ability to build synergies between corporates and grassroots communities. With unwavering dedication, she envisions a future where economic empowerment and ecological balance go hand in hand, making her a true changemaker and an inspiration for sustainable development in India. ■

## Just as Tiruppur export order picks up West Asia war tugs at its fabric

“Textile companies are in trouble. This is worse than the Corona period.”

A video of R Rajkumar, managing director (MD) of Tiruppur-based RRK Cottons India, saying these words — with a visibly gloomy expression — went viral in September 2025. He spoke of ₹65 crore worth of confirmed orders stuck due to higher tariffs in the US. At the time, two of his five factories had fallen silent, and out of 2,000 workers, he had no choice but to let half go. For him, business was not just slowing: it was slipping away.

That was five months ago.

Rajkumar’s gloomy face creases into a pleasant smile, with the occasional loud laugh. Tiruppur’s signature clatter of knitting machines is once again echoing through his factory premises.

The exporter — who primarily supplies to major US innerwear brands along with a few fashion labels — is now preparing for a trip to the US as orders begin to flow again. Recently, he secured ₹5 crore worth of orders from a new customer, helped by renegotiated tariffs that give Indian exporters an edge over rivals such as Bangladesh and Vietnam in the US market. The arrangement may be formalised by the end of March.

Almost ₹10 crore of the ₹65 crore worth of stuck orders will be exported soon. And we have received assurance that customers holding the remaining stock will also clear it by April, Rajkumar said, sounding relieved.

This is not just Rajkumar’s story. It reflects the experience of a large share of micro, small and medium enterprises (MSMEs) in Tiruppur over the past six months.

Tiruppur is no ordinary textile town. It is widely known as Dollar Town. The reason: Tiruppur and nearby Coimbatore — within a 50-kilometre radius — together accounted for around 69 per cent, or ₹44,747 crore, of India’s total knitwear exports of ₹65,178 crore in 2024-25 (FY25).

However, just as things were beginning to improve, the Iran war erupted, casting a

shadow over West Asia. Its ripple effects are now emerging as a fresh challenge for India’s textile and apparel sector.

Industry body Confederation of Indian Textile Industry (CITI) observed that a sizeable share of textile and apparel exports is destined for West Asia and expressed hope for an early resolution and a return to normalcy. The United Arab Emirates (UAE), in particular, is one of the largest markets for Indian textile and apparel exporters in the region. In 2024, the UAE was the fourth-largest market for India’s textile and apparel exports after the US, the European Union (EU), and Bangladesh.

“Considering the narrow margins under which textile and apparel exporters operate, escalation in logistics and insurance costs due to the West Asia situation puts them in a very tight spot. It affects their ability to meet contractual obligations and sharply raises operating costs,” said Ashwin Chandran, chairman, CITI.

The concern comes just as exporters like Rajkumar were beginning to recover from steep US tariffs.

In fact, a letter written by Tamil Nadu Chief Minister M K Stalin to Prime Minister Narendra Modi in late December highlighted the scale of the damage. The textile hub had seen a staggering wipeout of ₹15,000 crore in confirmed orders, along with enforced production cuts of upto 30 per cent across units because of the tariff issue.

Orders had dried up so sharply that the combined daily revenue loss across Tiruppur, Coimbatore, Erode, and Karur districts was estimated at ₹60 crore.

Despite this setback, signs of recovery are now visible across Tiruppur.

When reporters met Arun Ramaswamy, chief executive officer of New Man Exports, at his manufacturing unit in early September last year, he showed a section with idle machines and stock worth ₹4 crore awaiting purchase orders. His factory was operating only three to four days a week, as 30 per cent of his



## JUST AS TIRUPPUR EXPORT ORDER PICKS UP WEST ASIA WAR TUGS AT ITS FABRIC

customers were in the US and those orders had already dried up.

Enter February 2026.

Ramaswamy and his team are now upbeat. The company has cleared the old stock and is receiving multiple enquiries each week for bulk US orders.

"Enquiries are being generated, and left-over goods are being taken in. By May, Tiruppur will be fully back on track. Earlier, I used to get zero enquiries, now I receive multiple queries every week," Ramaswamy said.

New Man's annual business from the US market stood at around ₹15 crore in FY25, contributing 30 per cent of its total revenue.

### How Dollar Town held on

Until April last year, Indian textile exporters faced tariffs of 8-12 per cent in the US market.

This changed after the announcement of a 25 per cent tariff, which was later raised to more than 50 per cent on August 27.

When tariffs stood at 25 per cent, Indian exporters and their US buyers shared the burden, allowing orders to continue. But once tariffs crossed 50 per cent, fresh orders came to complete halt.

Even for existing orders, exporters had to absorb heavy losses to retain customers.

"As long as the tariff was 25 per cent, we could sustain. The moment it reached 50 per cent, we continued shipping only to maintain customer relationship," said Elangovan Viswanathan, president of Buying Agents Association and MD of SNQS Internationals.

At the same time, exporters began diversifying into newer markets.

As we speak, Viswanathan's team is already in the US negotiating deals with several large retailers.

Major global clients sourcing from Tiruppur include Primark, Tesco, Next, Marks & Spencer, Warner Bros, Walmart, Tommy Hilfiger, Discovery Global Consumer Products,

The Gap, Carter's, DUNS Sweden, Target, and Woolworths.

"Better days are back for the apparel trade. Compared to January, we are seeing a 20-30 per cent increase in enquiries, some of which are already translating into orders," Viswanathan said. "The advantage in US tariffs, along with free trade agreements (FTAs) with the EU and the UK, could push Tiruppur exports to ₹1 trillion by 2040 from around ₹45,000 crore now.

### A new fabric of strategy

The Tiruppur Exporters' Association (TEA) is the economic backbone of the town, and no account of the industry is complete without its perspective.

K M Subramanian, president of TEA, is optimistic but cautious. He stresses the need for market diversification and faster modernisation.

Before speaking to Business Standard, the Industry veteran had just concluded a meeting with officials from Kanko Group, Japan's well-known school uniform manufacturer with a 170-year legacy. The company is exploring the possibility of building a long-term manufacturing partnership in Tiruppur as part of its global supply chain expansion.

"We are in talks with the Japanese. It will take about six months for things to settle. After that, business could double, driven by FTAs and the US tariff advantage. We also need to modernise faster and strengthen workforce training through skill councils," Subramanian said.

Tiruppur's textile industry employs around 600,000 local workers and 200,000 migrants.

As the Trump administration signals a favourable stance on tariffs, the narrow lanes of the city lined with MSME units are slowly returning to life.

The once-bustling streets splashed with coloured fabrics and shop signs boasting export connections are beginning to stir again.

Subramanian sums it up simply: "Tiruppur is back. Textiles are back." ■

# A COMPREHENSIVE REVIEW OF BANARAS BROCADE

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## ABSTRACT

Banarasi Brocade is not a mere garment, it is a living skill practiced by the weavers of Banaras. Banaras or Kashi is a home to one of the oldest textile weaving traditions of the world, the industry which was flourished in the Vedic period. Brocade a fabric made from silk or cotton with interwoven gold or silver threads. There are many varieties and types of Banarasi fabric. Banaras Brocade weaver faces many threats and crisis due to availability of look – alike Banarasi Sarees in market in a very cheaper price which is causing serious damage to the Banarasi Silk industry. The days are far when the Chinese fabric will wipe off the Banarasi Silk Brocade industry, if corrective measures are not taken. The customer should know how to find out a pure Banarasi Saree which is a symbol of India's rich cultural heritage. This present study elaborates the Banarasi Brocades and sarees, it's type and how to find out original Banarasi Saree.

**Key words:** *Banarasi Brocade, Banarasi Saree, Silk, Weaves.*

## Introduction

Brocade is a type of rich, ornamental cloth. Across the country, people dress up for celebrations by wearing the opulent Banarasi Brocade cloth. Richly patterned with elevated designs, Banarasi Brocade textiles have an eye-catching appearance. Typically, brocade cloth features geometric or floral patterns that are incorporated throughout the weaving process. The cloth face of a brocade typically has twill or satin weaves. These kinds of materials are frequently used for upholstery, drapes, and evening gowns. The brocade fabric's elaborate designs are not the only thing that make it popular with people. Because of the exquisite zari and gold work, Banarasi brocade is regarded as weighty and opulent. This is another reason why ladies of all ages admire Banarasi brocade sarees for any occasion.

- ◆ The sarees are among the best in India and are prized for their exquisite needlework, quality silk, and zari, or gold and silver brocade. The elaborately embroidered and carefully woven silk sarees are comparatively hefty due to the exquisite design work.
- ◆ These sarees are distinguished by their intricately woven floral and foliate motifs, kalka and bel, and a row of erect leaves

known as jhallar at the outer edge of the border. Additional qualities include pallus, jal (a pattern resembling a net), mina work, tiny details in figures, compact weaving, gold work, and metallic visual effects.

- ◆ A saree's completion period can range from 15 days to a month, and perhaps even up to six months, depending on how intricately the motifs and patterns are created. Indian ladies typically wear Banarasi sarees to formal events like weddings, where they are supposed to be paired with their finest jewellery.

## Historical Background

Mark Twain stated "Benares is older than history, older than tradition, older even than legend, and seems to be twice as old as all of them put together" (Twain 1897). Banarasi sarees are being made in the ancient city of Varanasi/ Kashi/Banaras from ancient times in the holy region. Banarasi brocades are manufactured by interlacement of silver and gold zari threads with silk or cotton/silk blended yarns (Kumar *et al.* 2021). The rigorous commitment Banaras has for weaving is noted in the Vedas. Tantuvayas, who weave a variety of fabrics, such as cotton, silk, and brocades, have been around since 1500 BC to 500 BC, according to the Vedic literature. Golden cloth, also known as Hiranya Vastra, was one of the many clothing kinds that existed throughout the Rig-vedic era. The Hiranya fabric, also known as "Kimkhab" (rich brocade), has long been thought to be the original example of zari work. Back then, brocades were referred to as "Hiranya." Banaras is known in Pali literature as a reputed centre of textile famous for its famous textures. Banarasi sarees are the typical traditional sarees of India. As per ancient literatures, dead body of Buddha was covered using fabric made in Banaras (Kumar *et al.* 2021; Anonymous 2021 i). The oldest clue is the Bhagwa used to wear by lord "KRISHNA" was produced in Banaras made of pure silk threads and gold threads designing. Also, as mentioned in Jataka, the brocade "silk cloth (Koseyya)" was most probably embroidered using gold, King wore turbans of gold cloth. The state elephants were also decorated with golden trappings (Kumar *et al.* 2021). The "Ramayana holy scripture" also points an important reference to brocade as "Ravana" the demon king is described in donning a golden



## A COMPREHENSIVE REVIEW OF BANARAS BROCADE

fabric (Anonymous 2021 ii & iii). As evident from the sculpture of early periods that brocade gold cloth (Hiranya vastra) was originated quite earlier, not enough proofs left of “Ramayana” and “Mahabharata” except some mentions in “Purans” about this ancient fabric. This historic background of Banarasi brocade weaving goes back to early periods of Indian civilization and since then it might have passed through several changes and development in its structure and design (Kumar *et al.* 2021). Gold and silver zari threads were used by craftsmen from Banaras in the fourteenth century to create a variety of interesting silk brocades. The eighteenth and nineteenth centuries saw a rise in the popularity of Banarasi weaving. The majority of Banarasi sarees created in Varanasi are produced in Lohta, Bazardiha, Sarai Mohana, Lallapura, Saraiya, Bagwanala, and Badi Bazar. Apart from Banaras, it is produced at Bhadohi, Mirzapur, Chunar, Chakia, and Chandoli. During the Mughal era, Banarasi silk was a novel product created only for royalty. It was designed by Noor Jehan and was sourced from China after extensive discussion with the couturier. Everything about it, from thread to clothing, required a close relationship with one’s couture.

This nation’s socio-cultural shifts have coincided with the history of the Banarasi brocade. Fabrics and designs change to reflect these shifts. Both the girdles of the Kodava people of Coorg, Karnataka, and the turbans of Maratha kings were adorned with the brocade.

The need for pricey fabrics by the royal families or temples led to the development of India’s brocade weaving centres in and around the capitals of kingdoms or sacred places. The ancient centres were primarily found in Murshidabad, Delhi, Agra, Gujarat, and Banaras. The brocade-weaving regions of eastern and southern Persia, Turkey, Central Asia, and Afghanistan had a significant influence on the design and technique of northern weavers. Buddhist texts describe Varanasi fabrics as lovely to touch, exquisite to look at, and very popular with well-to-do people worldwide. Legend has it that after Buddha gained Mahaparinirvana, his mortal remains were wrapped in a Banaras cloth that glowed with blue, red, and yellow light.

Some art historians consider the many patterns found in the Ajanta murals from the Gupta period to be representative of some brocade specimens

as well. The geometric patterns, floral designs, and animal and bird motifs are closely related to the early brocade motifs. The craft of brocade was created in Kashmir around the fifteenth century by Sultan Zin-ul-Abidin (A.D. 1459–1470). He supported Iran’s weavers exchanging textiles. The royal workshop of Kashmir hosted a significant gathering of foreign weavers and artists. Because they shared pattern themes, Banaras brocade and Kashmiri Jamawar shawls bear striking similarities. Furthermore, Jahangir was a superb brocade specialist.

Each social or religious group established its own standards for clothing material, colour, and style. Hindus preferred silk with vivid colours and patterns, such as orange, yellow, and red.

The majority of people chose shrub or blended fabric in shades of lavender, sky blue, white, and magenta-blanket.

The transition of Banarasi weavers from manually controlled pit looms to the contemporary jacquard, created by Joseph Marie Jacquard, was a significant turning point in the history of looms. At this point, designs are traced onto graph paper, then into punch cards. When extra threads are woven into the base framework of a loom to create designs, the process is known as brocading or embroidery. Weavers would draw designs on the cloth using their memories when using pit looms, but punched cards were introduced with the jacquard, which simplified the process and shortened the amount of time needed to finish a weave.

### Varieties of Banarasi Brocade Fabric

#### Kinkhwab

Kinkhwab is an elaborate and heavy form of brocade fabric. It has an extensive amount of zari work done on the silk fabric which makes the fabric nearly invisible. It is a popular bridal wear fabric. Kinkhwab is characterized by intricate buta work and detailed surface. Kinkhwab fabrics are inspired by flora and fauna. Wet brocade fabrics should not be sun-dried, as they can fade. Such fabrics form elegant and formal drapes.

#### Pothans

Pothans is also known as Katan brocade fabric and it is created by twisting silk filaments together, to create a surface. Although it has closely woven silk threads, Katan brocade is lighter than Kinkhwab fabric. This type of brocade fabric is usually used to create rich garments and it is quite expensive.

### Major types of Banarasi Fabrics

There are mainly four types of fabric:

- ❖ Georgette (lightweight)
- ❖ Shattir (silk and cotton blend)
- ❖ Kora Organza (with silk and zari)
- ❖ Katan (pure silk)

#### Georgette Banarasi

Georgette is a sheer, lightweight, crêpe fabric named after the early 20th century French Dressmaker Georgette de la Plante. Georgette is created from finely twisted threads, originally from silk. By switching up the silk strands in the wrap and weft, it gets its distinctive crinkly surface. Rich zari work and exquisite hues make Banarasi khaddi georgette sarees renowned as some of the best sarees in India. The primary distinction between georgette and chiffon, which is another term for it and is also extremely often used, is how they look and weigh differently. The heavier and more resilient fabric of georgette is the result of its thicker ply.



Butidar Banarasi Saree

#### Shattir Banarasi Sarees

The only fabric utilized to produce fashionable, distinctive, and modern Banarasi saree designs is shattir fabric. Cotton and silk yarns are used to create Shattir Banarasi sarees. These sarees are unique from other Banarasi sarees because of their texture. They are available in a variety of patterns, such as floral and classic paisley motifs. These sarees are appropriate for daily use and are comparatively less costly.



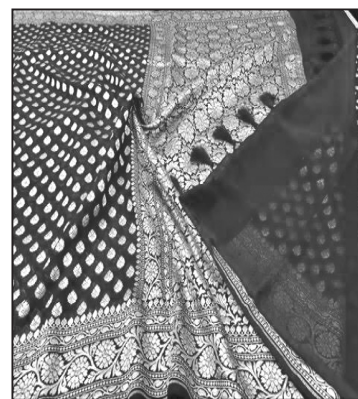
Kora Organza

#### Kora Organza

One type of Banarasi, or organza, is kora silk. Several laborious stages are involved in the development of these cozy and lightweight textiles. A thin translucent silk fabric with a plain weave is called kora silk. The artist uses thin spun threads called silk worms to weave it. The fabric's almost translucent quality contributes to its weightlessness, and when combined with the sheen from the silk threads, it gives an ensemble the necessary dose of glitz.

#### Katan

In order to produce a stronger and more resilient fabric, silk filaments are twisted together to generate katan silk. One of the softest, lightest, and finest grades of silk is katan, which shares many qualities with mulberry silk. When discussing Banarasi, Katan silk sarees are the most sought-after and essential for a bridal trousseau.



Georgette Banarasi khaddi

#### Banarasi Sarees Designs

There are mainly 5 Different Banarasi Saree designs:

##### Jangla

It is believed that the Jangla Banarasi Sarees are the most ancient form of Banarasi sarees. The design has the Jangla pattern which is spread across the length of the saree in the form of jangla Motif.

##### Tanchoi

Tanchoi saree is mostly famous for wedding ceremonies. The Pallu of Tanchoi Banarasi saree is usually, adorned with large motifs of paisleys and the border are kept simple with a beautiful criss-cross pattern.

##### Cut Work Saree

Cut work Banarasi is a simpler weaving method on a handloom or power loom in which the motifs are weaved into the saree itself. Consequently, there are loose threads between the motifs on the back of the cloth, which are hand-cut away, creating uneven margins surrounding each motif. The



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technique that throws the shuttle from one side to other side to weave the pattern is known as Fekua weave. As the cutwork Banarasi saree, it is a less expensive counterpart of the Jamdani saree. To produce traditional designs, a few warp threads are layered with cotton and weft. The marigold, jasmine blossoms, and creeper leaves dominated the design.

### Tissue Saree

The luster and excellent finish of tissue fabrics are widely recognized. It is created by weaving coloured silk yarn into the warp and using metallic thread (zari) in the weft. One of the bridesmaids' favourites, this combination creates a translucent fabric with a sophisticated appearance.

A contemporary take on the traditional Banarasi Silk Sarees is the Tissue Banarasi Saree. The lightweight, transparent fabric woven with silk or metallic threads is called tissue. This distinctive fabric adds a delicate sheen that amplifies the saree's overall appeal. Tissue Banarasi Sarees display the skill of Banarasi weavers with their elaborate motifs, floral patterns, and geometric designs. Golden fabric sarees, often known as tissue Banarasi sarees, are renowned for its exquisitely woven feature.



Jangla Banarasi Saree

### Butidar Saree

The name itself depicts the design. The Butidar Banarasi Saree is brocaded with threads of silk, gold and silver. This richly woven saree have the motif that features the Angoor Bail, Latiffa Butti, Jhari Butta, Ashraff Butti, Resham Butti and many more.

Kadhua technique is used for this saree weaving.

### Various types of Zari

- ◆ **Pure zari:** The central part of pure zari is made up of silk filaments, from which sericin has been removed. The silk yarn is twisted in red or yellow hues, over which thin wire (lametta) of silver and flatten wire (badla) is wound. The silver zari threads used in pure zari are electroplated with great expertise in pure gold solution to produce good quality gold zari.

- ◆ **Tested zari:** Also available in the market as imitation zari because it has the external quality of real zari and therefore resembles real zari in terms of glimmer. This variety of zari is a bit inferior to the real zari because of the use of copper lametta instead of silver and silver embellishment is done on copper wire and to produce gold zari, the tested zari is embellished with gold solution.
- ◆ **Powder zari:** The mechanised process followed for making powder zari is similar to the tested zari; it varies only where the powder gilding is done on imitation zari instead of gold electroplating.
- ◆ **Plastic zari:** This is the most inferior type of zari where plastic thread is used as lametta instead of copper or silver.

### Designs

Rich designs are found in Banarasi Jamdani with innumerable variations of floral and geometrical patterns on it. Generally different designs are weaved on the border, Pallau or end piece and the body. The designs are named according to their presentation; some of the names are:

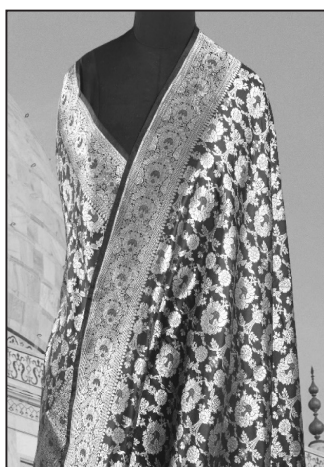
- ◆ **Aribel:** creeper or climber; diagonally arranged running figures.
- ◆ **Laharia:** Lahar or wave; figured like the waves of the sea.
- ◆ **Harava:** Straight or wave- like verticals lines interspersed with small flower like motifs.
- ◆ **Kharibel:** Horizontally arranged running figures
- ◆ **Kangura:** Border (figure-15, 19) for sarees, dupattas, blouses, etc.
- ◆ **Aribel bhanjvara:** Big flowers, 2" apart.
- ◆ **Saro:** Vertical pillars or stylized Trees
- ◆ **Lahar:** Horizontally arranged waves.
- ◆ **Chanda:** Moon shaped design
- ◆ **Haravva:** Like Aribel, running vertically across.



Tanchoi Banarasi Saree

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- ◆ **Patri:** Horizontally running figures.
- ◆ **Jaldar:** Ornamental figures arranged in the form of net (jal; net).
- ◆ **Phuldar:** Flower (figure-17) like ornaments in the body of the saree.
- ◆ **Buta:** Single ornamental motifs (figure-16) within the body of the cloth.
- ◆ **Fardibuti:** Closely arranged small dots.
- ◆ **Masurbuti:** Small ornamental motifs of the size of a Masur dal.
- ◆ **Makhibuti:** Small dots of the size of a fly.
- ◆ **Shahibuta:** Design made by the use of one Sirki (small spindle).
- ◆ **Jamewar:** Intricate all over design in cotton.
- ◆ **Ishqapench:** Pattern of fine leaves arranged in a creeper form.
- ◆ **Chaukora:** Moon-shaped design in the centre surrounded by floral decorations.
- ◆ **Konia:** Combination of kairi and petals design used in corner of the saree pallu or dupatta.
- ◆ **Butidar:** Small flowers design diapered on the fabric.



Kinkhwab

Some flower motifs very frequently used in this weaving are Chameli, Pomera, Genda buti (Marigold flower), Pan-buti (Beatle leaf), Tircha (Diagonal stripes) Mogra, Kamana, Juhi, Harsingar and Phulbanjari. Aribel, Kangura, Jaldar (figure-3), Saro, Lahar, Kharibel. Present day Jamdani sarees have designs of rose, Jasmine, lotus, Tree of life on them.

#### Motifs used in Banaras silk sarees

Banarasi designs are ornamented by the following motifs almost similar to each other, though somewhat different in construction, structure, their arrangements and color combination etc.

- ◆ **Buti (rosettes)** - A buti is a small spot figure of a size less than 2 inches in various shapes and structure. Generally, gold or silver thread is used as an extra weft for the formation of buti, but silk is also used as and when required.
- ◆ **Buta (floral designs)** - Buta is nothing but a larger buti. Actually, the term buta is used for small vegetable plant with a few newly green leaves having some flowers. The size of the buta is more than 2 inches and varies as per the requirement. It is fixed in the border, pallav, anchal of the saree or in the angan of the brocade.
- ◆ **Konia (corner)** - Buta placed in the corners of the Banarasi fabric are known as "Konia." Konia is used in the brocades in which gold or silver thread is used, usually silk thread is not used for Konia as it does not show pure floral designs, but sometimes complicated one and general within the mango or betel leaf heart shaped.
- ◆ **Bel (floral scrolls or stripes) choti bel and bari bel** - This is scroll or stripe, floral or geometry arranged in horizontal, transverse or zig-zag way for the purpose of separation of one portion to another or to cover a portion with extra weft designs. In the pallav or border for the separation of border and body or to divide the pallav in different portion, it is necessary to give border lines with these scrolls or stripes.
- ◆ **Jal and Jangla (mesh and sash)** - Jal means the "Net." It is one of the patterns of arranging butis in the body within the net which is known as Mesh pattern. The mesh is formed by scrolls having complicated designs like line enclosing the buti. The term Jangla perhaps comes from the Junglo (forest). However, the design pattern taken from the "designs of the window frames" which generally show wild vegetables designs or forest scene are the Jangla designs.
- ◆ **Jhalar (festoon designs)** - Just after the border where the main portion "body" starts a festoon design is given for the purpose of better ornamentation, when the body has spotted figures which do not suit the fabric when stripes or scrolls are present in the body.



Cut work saree



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### The variegated patterns

- ◆ **Brocade saree:** The term brocade refers to those textiles where patterns are created by transfixing or thrusting the needle between thread patterns or the warp. The saree has multiple motifs in gold and silver threads, used as extra weft against silk background. The borders and pallav have scroll designs whereas the body of the saree can have several appealing patterns throughout as per the designer.

- ◆ **Chiffon jamdani:** Unlike the other varieties of yarn in richer brocade sarees, this kind has more coarse twisted yarns that form the warp sheet. The S and Z warped ends are alternately arranged that impart a wavy and crepe appearance to the textile. The jamdanis generally have buti patterns all over.



Banarasi tissue saree

- ◆ **Jangla:** These are a must have wedding trousseau item. These are rich and heavy due to the meena work jaal and jangla designs all over. The finish of the motifs is neat to resemble just the same on both sides of the fabric due to swivel weave without any floats. Jangla saree requires a minimum of two weavers who work together with 14 to 28 shuttles at a time.
- ◆ **Kora cutwork:** In this kind, cut work are made against a plain ground. This gives a jamdani effect as the loose thread dangling between the motifs are trimmed manually and neatly.
- ◆ **Resham buti:** An affluent kind of Banarasi silk saree where butis are woven all over the ground bordered with heavy design and highly ornate pallav.
- ◆ **Satin border saree:** This has pallav and border in satin weaves, the rest saree is plain.
- ◆ **Satin embossed saree:** These have floral, ilayechi and charkhana patterns all over in satin weave.
- ◆ **Tanchoi:** The motifs are woven in satin weave with silk as extra weft and are without zari. Its jamawar style and paisley motifs are thickly spread throughout. These are quite heavy.

- ◆ **Tissue saree:** These have gold like appearance of cloth because they are woven with silk as warp and zari running as weft with combination of zari and silk in extra weft. Therefore, these are the most popular as wedding attire.

### Making of a Banarasi Saree

The typical duration for crafting a Banarasi saree ranges from 15 to 30 days, depending on the complexity of the patterns and designs. The process usually involves three weavers: one for weaving the saree, another for handling the spinning ring to form bundles, and a third for assisting with border design. Collaboration is necessary to make the Banarasi saree. A Banarasi saree should ideally have 45 inches of width and about 5600 thread wires. The artisans create a 24-26-inch-long base. It is during the bundling stage when the themes are designed.

An artist drew the designs and colour concepts on graph paper to construct design boards. After choosing the final pattern, punch cards are made, and hundreds of perforated cards are made to fit a single saree design. The perforated cards are knitted on the loom using a variety of colours and threads. To guarantee that the main weave picks up the correct colours and patterns, the perforated cards are then paddled in a methodical manner.



Katan Silk

### Hurdles faced by the Weavers

Development and technology brought new pattern in all even world. Due to changes in work systems there are some hurdles in doing it properly:

- ◆ Language due to illiteracy is big problem for communication as world is getting globalize.
- ◆ Illiteracy already a big one from the beginning and still not taking action regarding this to shed the illiteracy.
- ◆ Lack of information- It's a chain. One is linked to another one. This is era of information and technology and weaves are far away from them.
- ◆ Problem of connectivity- Due to lack of above-mentioned points this problem get general and create obstacle in upcoming time. World

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is changing very fast and they get back due to these factors.

- ◆ **Lack of Technical Skill-** Next barrier is lack of technical skill. Young generation does not take keen interest and consider it as a work of low category. Due to illiteracy they could not connect to other ones and even are not aware about any changes in developing time. Although mobile phones are in their hands but they are not fully aware its function for their efficiency in work. Mobile is just like a normal land line device.



Dresses designed by Designer Shruti Sancheti in her 'Kaashi to Kyoto' collection

- ◆ **Lack of demand-** is another one issue. This is happening due to modernism.
- ◆ **Low income-** They do not have sufficient amount to extend their business. They are part of middle class so can't take risk as they have to look after their family too.
- ◆ **Weavers-** generally work for their master or in cooperative societies. Very few independently are working.
- ◆ **Joint family system-** This style needs full support of family and vast family expense is a burden on head of family. Families are getting nuclear.
- ◆ **Lack of skill-** With changing scenario they are not developing skill. Children are on same pattern are moving and had no idea about changing prospective. Due to these reasons and much more the conditions of weavers are getting pathetic. Lack of sufficient information and government are not providing them modern technique and they are lacking behind in comparison with others.

#### How To Find Pure Banarasi Saree?

- ◆ **Examine the saree's reverse side:** There will always be floats in the warp-and-weft grids

of Banarasi sarees that are loom woven. But sarees that are machine-woven will be finished smoothly.

- ◆ **Find Pin Markings:** Look for pin markings as another way to determine if a saree is truly Banarasi. These fasten the saree to the loom and are typically found on the hem of the garment.
- ◆ **Remain Firm to a Certificate:** Another crucial thing to check for when buying pure silk sarees is the Certificate of Authorised Use of the Silk Mart Logo. Always ask for a certificate when purchasing a silk saree to confirm authenticity.

#### How to identify hand loomed fabric from power loomed fabric?

- ◆ Sarees woven by hand have a softer texture than those produced by power. Pay close attention to the saree or photograph to identify the variations in texture.
- ◆ Power loom sarees are not as detailed and pattern-matched as handloom sarees. Amru, ambi, domak, and other Mughal-inspired motifs are frequently used to embellish handloom sarees. Such nuances are impossible to duplicate with a power loom.
- ◆ It typically takes a handloom saree fifteen to thirty days to finish.
- ◆ Wrinkles and creases will disappear faster from your Handloom saree. This is because a handloom saree's wefts are woven unevenly.
- ◆ If you look closely, you might see that a saree with power loom has one or two balls or pills created on it. Abrasion is brought on by the speed at which power is approaching, and occasionally weaker fibres break to produce pills on the fabric's surface. Handloom sarees will change all of this.
- ◆ Despite these variations, the most important fact is the intense labour required to weave a Banarasi Silk Saree, which yields a product far superior to that of a machine. Every saree is an individual testimony to the centuries-old skill and artistry of the weaver. No contemporary technology can match its degree of complexity, legacy, or culture.

#### Geographical Indication (GI)

In 2006, an initiative was launched to obtain a Geographical Indication in order to revive the market for "authentic Banarasi sarees". The five districts in Uttar Pradesh where GI is being utilized



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include Varanasi (Banaras), Chandauli, Bhadohi, Mirzapur, and Azamgarh. The use of Geographical Indications (GIs) has played a crucial role in safeguarding and promoting handicrafts from developing countries, such as Montecristi, Ecuador, and Panama. As per Grobar (2017), India currently holds GIs for Banarasi brocade sarees.

### Journey of brocade from Kaashi to Kyoto

Designer Shruti Sancheti debuted her 'Kaashi to Kyoto' collection, which became famous when Banarasi fabrics were infused with modern Japanese designs. Designer Shruti Sancheti unveiled an incredible collection titled "Kaashi to Kyoto" for her "Pinnacle" label as part of the "Reinvent Banaras" program, which was announced by Prime Minister Narendra Modi. Using color, craft, and avant-garde textiles, she sent the audience on an exotic adventure during Lakmé Fashion Week Winter/Festive 2015. By fusing the artistic ideas from the two locations, Shruti brought a modern twist to the traditional Banaras weaving. Exotic silver, gold, and rose gold were woven with natural motif designs from Kyoto, such as maple leaves, mushrooms, flower buds, abstract birds, and floral laces. The color narrative featured vibrant shades of sapota, scarlet, and azure blue, ivory, gold, deep purple and wine that created a grand mélange of hues.

Brocades, gicha silk, sheer Bengal Dupion, cotton silk, and Chanderi were among the opulent materials that Shruti unveiled. Difficult dori needlework and surface ornamentation—a reimagining of Japanese Boro embroidery in gold printing—gave the pieces a touch of Japan. Obes had a significant role in the exquisite fusion of Indian and Japanese shapes found in silhouettes. The Indo-Japanese vibe was perfectly captured by long sheer maxi coats, layered asymmetric shirts, flared palazzos, cap-sleeved short tops, and kimono blouses paired with skirts. On the runway, the collection quickly displayed kimono shirts, capes, wide pleated pants, ghagras, long skirt dresses, cropped tops, and skirts. The overall effect was serene, almost Zen-like.

Fashion enthusiasts worldwide will be captivated with Shruti Sancheti's striking "Kaashi to Kyoto" collection, which combines elements of Indian and Japanese culture.

### Conclusion

Banarasi sarees are more than just clothing; they are expressions of artistic talent and cultural history. The passion, talent, and expertise of the weavers of Banarasi sarees are evident in every style.

The exquisite craftsmanship, ageless beauty, and rich cultural legacy of India are embodied in the Banarasi Brocade. These sarees, which have a long history, continue to be popular among Indian women, particularly weddings. They have established themselves in contemporary closets and runways thanks to their elaborate designs and luxurious zari work, which never ceases to amaze the fashion world.

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## Forex Reserves decline nearly \$10 billion

India's foreign exchange reserves declined by \$9.8 billion to \$686.8 billion, in the week ended January 2, marking the steepest weekly fall since November 2024. The drop largely reflected heavy interventions by the Reserve Bank of India in the foreign exchange market to curb excess volatility in the rupee, which came under pressure amid sustained foreign portfolio investor outflows and uncertainty over tariff related developments.

The fall in reserves also reflects revaluation losses for the dollar and a decrease in gold prices. Gold reserves fell \$2 billion to \$111.2 billion, while foreign currency assets fell \$7.6 billion to \$551.9 billion.

"The fall in reserves is mainly due to dollar-selling by the RBI. The RBI sold \$7 billion in the foreign exchange market, while about \$2.7 billion is due to revaluation in its dollar assets. They have net sold \$8.2 billion in December and \$9.3 billion in November to curb rupee volatility," said Gaura Sengupta, chief economist at IDFC First Bank.

The RBI was cosistently intervening between 90 and 90.30 in the recent past traders said.

# PANJA DURRIE WEAVING IN SALAWAS: A STUDY OF WEAVER LIVELIHOODS

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## Abstract

Salawas, a village near Jodhpur in Rajasthan, is widely recognized for its traditional *panja durrie* weaving, a craft noted for its geometric designs, vibrant colour combinations, and handmade precision. Despite its cultural and economic value, this craft faces challenges arising from changing market dynamics, low remuneration, and limited recognition of artisan labour. This study aims to document the complete process of panja durrie weaving including raw material selection, loom preparation, panja techniques, pattern formation, and finishing and to examine the socio-economic conditions and health issues experienced by weavers in Salawas. The documentation is based on field observations, interviews with artisan households, and interactions with local cooperative groups. Findings reveal that weaving skills are traditionally passed down through generations, yet younger weavers increasingly shift away due to low and unstable income. Many weavers depend on intermediaries for raw materials and marketing, resulting in reduced profit margins. Limited access to government schemes, absence of social security, and inadequate financial literacy further contribute to economic vulnerability. The study also identifies significant health concerns among weavers, largely stemming from prolonged sitting, repetitive hand movements, poor lighting, and inadequately ventilated workspaces. Common issues include back and shoulder pain, joint stiffness, vision strain, and respiratory discomfort from fibre dust. Despite these challenges, most weavers continue weaving due to cultural attachment and lack of alternative employment opportunities.

**Keywords:** Panja Durrie Weaving, Salawas Jodhpur, Traditional Handloom, Socio-Economic Conditions, Weaver Health Issues, Rajasthan Crafts.

## Introduction

Durrie weaving in Salawas, a village located near Jodhpur in Rajasthan, represents one of India's most distinctive handloom traditions and continues to serve as a major source of livelihood for local artisan families. The craft is known for its use of the *panja*, a comb-like tool that tightly packs the weft to create durable, flat-woven rugs characterized by geometric patterns and bold colour combinations. Previously produced from wool, camel hair, or goat hair, durries are now predominantly woven with cotton in response to changing market preferences,

yet the essential methods have remained largely unchanged and are passed down through generations. The weaving process is labour-intensive and often collaborative, reflecting the deep cultural and familial ties embedded within the craft. Despite its artistic and cultural significance, the weavers of Salawas face persistent socio-economic challenges, including fluctuating demand, rising production costs, competition from machine-made textiles, and limited access to fair markets. These pressures influence not only their income and livelihood security but also the sustainability of the craft itself. Documenting the traditional techniques, tools, motifs, and practices of Salawas durrie weaving, alongside an examination of the socio-economic conditions of its weavers is therefore essential for understanding how this heritage craft adapts to contemporary realities and how targeted interventions may support its long-term survival.

## Objective of the study

- To document the tools, techniques and process of Panja durrie weaving.
- To study the socio-economic conditions of Panja durrie weavers.

## Review of Literature

Venkatalu, Shriya, and Gupta (2024) reviewed the traditional Punja durrie weaving craft practiced in Salawas, Rajasthan, documenting its historical development, unique interlocking weaving technique, tools, and the full production cycle from raw-material sourcing through finishing. The study depicts a significant decline in practicing artisan families and emphasizes the need for documentation, preservation, and measures to support the craft's sustainability.

Yadav and Rose (2019) depict in their study the status of Punja durrie weaving in Haryana and identify the factors contributing to its decline. Using a structured interview schedule and purposive sampling, the study collected data from ninety women weavers across Hisar, Fatehabad, and Sirsa districts. Findings showed that durrie weaving was traditionally practiced by women as a leisure-time activity and a supplementary source of income, with most respondents producing durries, stool mats, foot mats, and prayer mats using floral, geometric, and animal motifs. However, the craft has diminished due to lack of demand, low profit margins, limited marketing channels, delayed



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payments, and competition from mechanized looms. The study also reports significant health issues among weavers, including fatigue, headaches, and musculoskeletal pain resulting from long working hours and poor working posture. The authors conclude that the continuation of this craft requires improved market access, design support, and efforts to explore export opportunities to sustain this traditional textile practice.

Chhikara (2018) study reports the production, commercialization, and contemporary challenges of Punja durries in Panipat, Haryana. Using field observations and analysis of industry documentation, the study traces the transformation of Punja durries from a traditional, locally crafted textile to an export-driven commodity controlled largely by international buyers. The paper documents the production chain at Raj Overseas and highlights how the buyer now determines raw materials, colours, and designs, reducing the creative role of weavers. Findings show a decline of local weaving families, replaced by migrant labourers due to reduced economic viability and changing domestic demand. The study discusses the impact of taxation policies, global competition particularly from China and shifts in marketing strategies on the sustainability of this craft. Overall, the paper concludes that modern commercial pressures, weak policy support, and market dependency threaten the survival of Punja durrie weaving, calling for stronger governmental and structural interventions to sustain this traditional artform.

### Methodology

**Locale of the Study :** The research was conducted in Salawas village near Jodhpur, Rajasthan, a prominent centre of traditional Panja durrie weaving.

**Sampling Technique:** Purposive sampling was used to select ten experienced weavers to obtain in-depth insights into weaving practices and socio-economic conditions.

**Sampling Method:** The study followed a qualitative descriptive approach to enable holistic documentation of craft processes and artisan livelihoods. Primary Data were collected through multiple qualitative tools to ensure authenticity.

- **Verbal Interactions and Informal Conversations:** Engaged with artisan households to understand skill transmission, income patterns, and everyday challenges in a natural setting.

- **Field Observations:** Observed loom setup, weaving posture, tool handling, workflow sequence, and workspace environment at the production sites.
- **Photographic Documentation:** Captured visual evidence of tools, techniques, motifs, and working conditions for detailed craft mapping and analysis.
- **Interaction with Cooperative Members and Local Traders:** Gathered insights on raw material sourcing, pricing systems, market linkages, and the role of intermediaries.

**Secondary Data Sources:** Relevant information was reviewed from books, journals, reports, and digital archives to support and contextualize the primary findings.

**Analysis of data:** Data were analysed using a qualitative descriptive approach, where interview responses and field notes were thematically organized to identify key patterns related to weaving practices, socio-economic conditions, and health issues. Photographic evidence and secondary sources were used for validation to ensure a holistic and reliable interpretation of the findings.

### Results and Discussion

#### Tools and techniques used in Panja durries weaving:

The craft is predominantly practiced by the Prajapat community in Salawas, Jodhpur. Following are the material, tools, and techniques used for panja durrie weaving:

- **Yarns:** Basically Cotton, camel hair, goat hair, jute is used form weaving the durries. Cotton yarns are basically sourced from Pali and dyed using wet dyeing techniques.
- **loom types:** Horizontal loom is used for weaving the products.
- **Tools:** Tools that are generally used are Panja, Khafta, Pinich, Khichna/Ghodha and scissors.
- **Technique:** Weaving uses interlocking technique which is done on a horizontal loom where white warp threads are arranged manually. Coloured weft threads are packed tightly using the metallic *Panja*, which ensures durability of the durries. Alternate upper/lower warp layers rhythmically; beat with Panja after each pass for tight weave. Finally finishing is done by knotting fringes and tassel tying.

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- **Motifs:** Commonly used motifs include geometric patterns i.e. square, rhombus, triangle, chevron, circle, floral, tree of life, birds and animal figures inspired from natural flora and fauna are depicted on the durries. Durries are reversible in nature, enhancing their utility and aesthetic appeal. Weavers skillfully blend traditional motifs with contemporary preferences with the evolution of motifs, highlighting a transition from intricate traditional patterns to simpler geometric forms influenced by shifting market demands.
- **Products:** There is huge range of the product diversification in punja weaving that are created i.e. floor durries, bed durries, bridal durries, rugs, bags, and yoga mats etc.



Plate 1 : The looms and motifs of panja durries

### Socio-Economic Profile of Weavers

- Most weaving households' function within traditional joint family systems where multiple members share responsibilities. Educational attainment is generally low, often limited to primary or middle school levels. This restricts exposure to new technologies, market knowledge, and entrepreneurial opportunities. Majority of weavers belong to joint families with limited formal education.
- Earnings from durrie weaving fluctuate significantly throughout the year due to demand cycles. The highest income period typically occurs between November and February, aligned with festival and winter markets. During off-season months, many households face financial instability and reduced cash flow.
- A single durrie takes nearly two months to complete, earning ₹5,000– ₹7,000. The production of one handwoven durrie is highly time-intensive, often requiring up to two months of skilled labor. Despite the long production cycle, the average earning per piece remains relatively modest. This low return on time investment discourages full-time engagement in the craft.
- Younger members of weaving families show limited commitment to the craft as a primary livelihood. Most prefer agriculture or other wage work that offers more stable and immediate income. As a result, weaving is increasingly treated as a supplementary or part-time activity.
- A significant number of weavers depend on middlemen or contractors for raw materials and market access. These intermediaries often control pricing and absorb a substantial share of the final profit. Consequently, weavers receive only a small fraction of the actual market value of their products.
- Many weavers operate from congested homes with limited dedicated workspace. Inadequate lighting, ventilation, and ergonomic arrangements reduce efficiency and comfort. These infrastructural constraints ultimately lower productivity and impact product quality.

### Health Issues faced by the weavers

- Back and shoulder pain: Continuous forward-leaning posture during weaving puts excessive



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strain on the back and shoulders. Over time, this leads to chronic musculoskeletal discomfort and reduced working endurance.

- Joint stiffness from prolonged sitting: Sitting for long hours in fixed positions restricts blood circulation to the joints. This results in stiffness, reduced flexibility, and difficulty in movement after work.
- Eye strain due to inadequate lighting: Poor or uneven lighting forces weavers to strain their eyes to see fine yarn details. Prolonged visual stress can cause headaches, blurred vision, and fatigue.
- Respiratory discomfort from fibre dust: Continuous exposure to fibre particles and dust irritates the respiratory tract. This may lead to coughing, allergies, and long-term breathing problems.

These issues align with findings of Roy (2018), who documented similar musculoskeletal disorders among handloom workers across India.

### Challenges faced by weavers

- Middlemen dominance limits profit margins: Most weavers depend on intermediaries for raw materials and market access, reducing their bargaining power. As a result, a significant share of the final profit is absorbed by middlemen rather than the weavers.
- Limited awareness about government welfare schemes: Many weavers are unaware of subsidies, insurance, and support programs available for handloom workers. This lack of information prevents them from accessing benefits that could improve their livelihoods.
- Lack of Education: Low levels of formal education restrict weavers' ability to explore alternative income opportunities. It also limits their understanding of market trends, digital platforms, and business practices.
- Absence of social security and medical benefits: Most weavers work in the informal sector without health insurance, pensions, or workplace protection. Medical emergencies or old age therefore create severe financial vulnerability for weaving families.
- Inadequate financial literacy prevents weavers from negotiating fair wages: Limited knowledge of costing, pricing, and profit

calculation weakens their negotiation capacity. Consequently, many accept low wages without fully understanding the true value of their labour.

- Declining interest among youth threatens continuity of the craft: Younger generations perceive weaving as low-paying and physically demanding work. Their migration to other occupations risks the gradual erosion of traditional durrie weaving skills.

### Conclusion

The traditional craft of Panja durrie weaving in Salawas embodies cultural identity and artisanal skill but exists within fragile socio-economic conditions. While the craft persists through the dedication of elderly weavers, the lack of financial sustainability discourages younger generations. Seasonal income, exploitative intermediaries, poor working conditions, and limited institutional support poses significant challenges. To ensure its survival, comprehensive, multi-stakeholder strategies are essential improving direct market linkages, enhancing design interventions, ensuring fair wages, and expanding awareness of welfare schemes. Strengthening cooperative structures, integrating digital marketing, and providing skill upgradation can help revitalize the craft, ensuring economic dignity and sustainable livelihoods for the weavers of Salawas.

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## China exceeds Netherlands as India's 3rd-largest export market

China overtook the Netherlands to become India's third-largest export destination in February, according to commerce department data.

Exports to seven of India's top 10 destinations contracted during the month, with overall exports declining 0.81 per cent year-on-year to \$36.61 billion. These 10 countries together account for over 50 per cent of India's merchandise exports. Exports to China rose 32.4 per cent to \$1.67 billion in February, mainly due to a low base. While disaggregated data for the month is not yet available, recent trends suggest that growth has been driven by higher shipments in sectors such as electronics and marine products.

Exports to the Netherlands fell sharply by 31.3 per cent to \$1.29 billion. The country serves as a key gateway for Indian goods entering Europe and has been a major destination for refined petroleum exports over the past three years. An industry expert said the decline may have contributed to the reduced shipments of refined petroleum, as India has lowered imports of Russian crude oil for refining.

The United States (US) continued to be India's largest export destination, followed by the United Arab Emirates (UAE). However, exports to both countries declined in February. Shipments to the US fell nearly 13 per cent Y-o-Y to \$6.89 billion, while exports to the UAE dipped marginally by 0.3 per cent to \$3.25 billion.

Exporters said the slight decline in shipments to the UAE is likely a oneoff. In the case of the US, the drop has been attributed to tariff-related uncertainties. Exports to the US have been more or less at the same level — between \$6.3 billion and \$6.9 billion — since October. The contraction can also be attributed to a relatively higher base as exports to the US surged last year in anticipation of higher tariffs.

"With the lowering of the US tariff to 10 per cent (from February 24), we expect exports to pick up. However, the uncertainty continues since the US has launched investigations under section 301 (b) as well targeting several countries, including India," said Ajay Sahai, director general and chief executive officer of the Federation of Indian Export Organisations.

Other countries that saw a decline in imports from India include the United Kingdom (–4.6 per cent), Saudi Arabia (–10.4 per cent), Bangladesh (–22.9 per cent), and Singapore (–13.7 per cent).

Meanwhile, exports to Germany and Hong Kong grew by 4 per cent and 32.1 per cent, respectively, the data showed.

March is expected to be a challenging month for merchandise exports due to disruptions in freight movement through the Strait of Hormuz amid the ongoing West Asia crisis. "March will be a challenging month due to the logistics bottlenecks affecting trade. Exports are likely to be impacted," Commerce Secretary Rajesh Agrawal said recently. ■



# DEVELOPMENT OF HOME TEXTILE PRODUCTS FROM POST CONSUMER TEXTILE WASTE

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## Abstract

With growing concerns about textile waste and the environment, there is an urgent need to develop sustainable methods of fabric reuse. Post-consumer textile waste, which consists of discarded clothes and household fabrics, has become a major challenge for the textile industry. This paper examines how waste can be transformed into home textile products, including curtains, cushions, rugs, and other functional items. Recycling involves breaking down old fabrics into fibers that can be spun into new yarns or processed into nonwoven materials, while upcycling emphasizes creative reuse by converting waste into useful and aesthetically appealing products without significant processing. There are dual benefits of reusing textiles: reducing environmental impacts such as landfill accumulation and resource depletion, and supporting economic opportunities through sustainable production and green entrepreneurship. Furthermore, the research emphasizes how consumer awareness, design innovation, and supportive policies can encourage sustainable home textile production in the future. Addressing post-consumer textile waste through recycling and upcycling not only contributes to environmental conservation but also promotes circular economy practices, making home textiles a key area for sustainable innovation.

**Keywords :** Recycling, Upcycling, Home Textiles, Sustainability, Environment.

## 1.1 Introduction

The textile waste is one of the bigger contributors to global waste, having millions and tons of clothing and fabric ending in landfills each year (Ellen MacArthur Foundation, 2017; BBC News, 2023). Post Consumer textile waste that includes used clothes, household textiles, upholstery creates a challenge to sustainability as improper disposal leads to environmental pollution and resource depletion (United Nations Environment Programme, 2020). One solution is to repurpose these waste materials into Home Textile products, reducing the landfill waste by promoting a circular economy (Textile Exchange, 2023; Fashion Revolution, 2023). While textile recycling and upcycling are getting attention, challenges such as fiber degradation, sorting complexities and high processing costs remains as barriers. There is a need to explore the methods, benefits, and challenges associated with developing

home textiles from post-consumer textile waste, contributing to a more sustainable fashion and textile industry. (Sandin&Peters, 2018).

## 2.1 Post Consumer Textile Waste

Post consumer textile waste refers to fabrics and garments that are discarded or thrown that are already used by the consumers. (Jeanger P. Juanga-L., et al.,2020). These textiles contain mixed fibers, synthetic materials and dyes, making them difficult to recycle. (NidhiA,2023). Improper disposal of textile waste leads to environmental pollution, as synthetic fibers take decades to decompose and they release harmful microplastics into the ecosystem. (Okafor J,2024).

## 3.1 Recycling and Upcycling Techniques

### 3.1.1 Recycling

Recycling involves the collection, processing, and transformation of waste materials into new, usable products rather than disposing them off. Recycling aids in conserving resources, reducing energy consumption, and lowering environmental pollution.

Recycling is not without its challenges. Contamination of recyclable streams—such as non-recyclable materials or improperly cleaned items—can compromise entire loads, reducing efficiency and increasing waste. Another concern is downcycling, where materials degrade in quality over time and can't be recycled. Certain plastics may only be repurposed into lower-grade products like fibres or insulation, which eventually end up in landfills. To enhance recycling effectiveness, policy tools like Extended Producer Responsibility (EPR) are gaining traction. EPR shifts the end-of-life responsibility onto producers, encouraging them to design products for easier recycling and to invest in collection systems. These incentives help close the loop and support circular economy models by ensuring materials remain in use for longer (Environmental Protection Agency (EPA), 2023).

Several methods can be used to transform post-consumer textiles into new home products:

#### 3.1.1.1 Mechanical Recycling

Mechanical Recycling involves shredding of old fabrics into fibers that can be spun into new yarns. (Saha S, 2020). These recycled fabrics are then stitched to materials in home textiles as rugs,

upholstery and cushion covers. While this method is energy-efficient, it may reduce fiber quality over time. (Björquist, S., n.d.)

#### **3.1.1.2 Chemical Recycling**

Chemical Recycling techniques breaks down the textile fibers into their original chemical components, that can be reprocessed into new fibers. (Fashion for Good, n.d). This technique is effective for polyester or blended fabrics but require more advanced technology and high investment costs.(Ndagano, U. N., et.al,2025)

#### **3.1.2 Upcycling**

Upcycling technique involves creatively repurposing textiles without breaking them into fibers. For example, an old jean can be converted into patchwork cushion covers while used sarees can be converted into decorative curtains. (Munjal T,2025). The upcycling technique reduces waste and adds artistic value to the home products. (Sarkar S, 2024).

Upcycling refers to the creative reuse of discarded or unwanted materials to create products of higher quality, value, or environmental benefit. Unlike recycling, which often involves breaking down waste into raw materials and sometimes leads to downcycling, upcycling emphasizes innovation and craftsmanship by enhancing the original material without significant industrial processing. This approach not only diverts waste from landfills but also contributes to sustainable consumption by extending the life cycle of products. One of the strongest benefits of upcycling is its ability to transform waste into items of greater functional or aesthetic value. For instance, old textiles can be redesigned into fashionable garments, home furnishings, or accessories. This process requires fewer resources than recycling because it avoids the energy-intensive breakdown of materials into raw components. As a result, upcycling has a smaller environmental footprint and plays a unique role in circular economy systems (Sung, Cooper, &Kettley, 2014).

Economic opportunities also emerge from upcycling practices. Designers, artisans, and entrepreneurs can generate new business models around repurposed goods, catering to markets that value eco-friendly and unique products. For example, the fashion industry has increasingly adopted upcycling as part of sustainable design strategies, creating limited-edition collections from post-consumer textile waste. This not only

reduces environmental burden but also appeals to consumers seeking ethical and innovative choices (Pedersen &Netter, 2015).

#### **4.1 Challenges in Reusing Post- Consumer Textiles**

Despite the clear environmental and economic benefits of textile recycling and upcycling, several challenges hinder their large-scale adoption. One of the most significant barriers lies in the difficulty of sorting textiles. Post-consumer fabrics often consist of diverse fiber blends such as cotton-polyester, nylon-wool, or other mixed compositions, which makes identification and separation complex and highly labor-intensive (Jeangeret al., 2022). Even when automated technologies are used, the accuracy of fiber recognition remains limited, creating inefficiencies in the recycling process. Another major issue is fiber degradation during recycling. Mechanical recycling processes, for instance, shorten fiber lengths and reduce their strength, which makes the resulting yarns weaker and less durable compared to virgin fibers. This restricts their application in high-quality products and often confines them to secondary markets (Nidhi, 2023). Many old textiles contain dyes and chemical residues from earlier finishing processes, including synthetic dyes, flame retardants, and formaldehyde-based finishes. These residues not only pose health and safety risks but also require specialized treatments or safe disposal methods before reuse, adding extra complexity to recycling systems (Md. Abduset al., 2024)

#### **5.1 Benefits of Repurposing Textile Waste-**

Reusing post-consumer textiles offers multiple advantages that extend across environmental, economic, and social dimensions. From an environmental perspective, repurposing discarded fabrics significantly reduces the volume of textile waste that would otherwise end up in landfills. This not only conserves valuable landfill space but also helps lower water and energy consumption, since producing recycled or upcycled textiles requires fewer raw resources compared to manufacturing virgin fabrics. By minimizing the need for new production, the process also helps to curb pollution levels and reduce greenhouse gas emissions, thereby supporting global efforts toward sustainable development (Sood, 2024). In addition to environmental gains, the practice of textile reuse provides notable economic benefits. Recycling and upcycling initiatives create new business



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opportunities and generate employment across the textile value chain, from collection and sorting to product innovation and retail. In regions where unemployment is high, these industries can serve as important drivers of income and skill development (Trivedi Y, 2024). There is increasing consumer appeal associated with upcycled and recycled products. Many consumers today are consciously choosing sustainable and eco-friendly goods, not only for their environmental value but also for their uniqueness and creative design. This rising demand has encouraged brands and designers to incorporate reused textiles into their collections, fueling a growing market for sustainable fashion and home products (Kimeu C, 2025).

### 6.1 Sustainable Design Strategies

To enhance the usability and durability of home textiles made from waste materials, sustainable design approaches can be adopted:

- ▶ Blending Recycled Fibers with Natural Fibers- Combining of recycled fibers with natural fibers improves the strength and softness of textiles. (Guus,2024).
- ▶ Using Minimal Processing Techniques- Adopting processes that require minimum amount of water and energy that reduces environmental impact and maintains material integrity. (Cottonworks, n.d.)
- ▶ Creative Repurposing: Innovative methods, such as modular designs, encourage the reuse of old fabrics, allowing for easy repair and extended product life. (SenthilkannanS, 2020)

### 7.1 Government policies for Upcycling and Recycling

#### » Legislation

The government has established a Circular Economy Cell within NITI Aayog to coordinate and implement action plans across various sectors, including textiles. (NITI.GOV.in). Additionally, the government has notified various rules, such as the Plastic Waste Management Rules, e-Waste Management Rules, Construction and Demolition Waste Management Rules, and Metals Recycling Policy, to promote circular economy practices. (PIB. GOV.in,2023).

#### » Consumer Awareness Campaigns

Initiatives like the Global Alliance for Textile Sustainability Council (GATS) aim to address challenges related to circular economy practices

by engaging recyclers, manufacturers, brands, policymakers, academic institutions, and industry experts. (Bansal R,2024). Organizations like Green Worms are working to educate communities and empower women through training and business support, fostering a change. (Escorial M.L.,2024)

### 8.1 Role of Government Policies

» NITI Aayog's Circular Economy Action Plan: In 2021, NITI Aayog—India's premier policy think tank—established the Circular Economy Cell to develop strategies and action plans for 11 focus sectors, including textiles and apparel. Its aim is to increase material recovery, encourage recycling, and reduce landfill loads by establishing sector-specific circularity roadmaps.

#### Key objectives include:

- ▶ Promoting the reuse and repurposing of post-consumer textile waste.
- ▶ Creating a national framework for Extended Producer Responsibility (EPR).
- ▶ Setting up reverse logistics systems for waste collection.
- ▶ Encouraging public-private partnerships for waste valorization.
- » Ministry of Textiles: PM-MITRA Parks and Eco-Textile Clusters: The PM-MITRA scheme (Mega Integrated Textile Region and Apparel) launched by the Ministry of Textiles promotes sustainable and integrated textile parks. These parks are being encouraged to include eco-friendly processing, waste segregation units, and zero-liquid discharge systems, indirectly fostering circular practices.
- » Extended Producer Responsibility (EPR) Expansion Plans The MoEFCC (Ministry of Environment, Forest and Climate Change) has successfully implemented EPR in plastics and e-waste. As part of India's broader CE vision, the textile sector is next in line for EPR adoption. This would require brands and manufacturers to take responsibility for the post-use collection, segregation, and recycling of garments and textile products (NITI Aayog, 2022).
- » Startup India & MSME Support for Textile Circularity

The Startup India initiative has registered a growing number of textile-focused startups that work in:

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- ▶ Recycled fiber production (e.g., use of PET bottles and cotton waste).
- ▶ Upcycled home textiles (e.g., cushion covers from saris, jeans converted to bags).
- ▶ Digital resale and repair platforms (e.g., refurbished home linen platforms).

They receive financial grants, mentorship, and incubation under Atal Innovation Mission (AIM) and other government-backed schemes. (Startup India, 2023).

### » Swachh Bharat Mission and Urban Local Bodies (ULBs)

Under the Swachh Bharat Mission (Urban), many municipal corporations in cities like Pune, Bengaluru, and Indore have initiated pilot programs for textile waste segregation and recycling. These include tie-ups with textile colleges and local NGOs to design home décor products from scrap cloth, promoting both waste reduction and employment generation. (Ministry of Housing & Urban affairs, 2023).

### 9.1 Organizations and Brands working on Recycling and Upcycling of textiles

#### 1) Respun

Respun promotes itself as India's first textile recycling service focused on helping consumers "declutter their closet responsibly." They collect used clothes and textile waste and recycle them into new products. Their mission includes diverting textiles from landfills and providing dignified employment to rural and informal workers.

#### Key activities:

- ▶ Collection of used textiles from consumers
- ▶ Recycling and repurposing clothes into new items
- ▶ Providing employment to rural workers and promoting sustainable fashion practices in India. (Respun India, 2025)

#### 2) Goonj / Sujni by Goonj

Goonj is a major Indian NGO that upcycles urban textile waste into rural livelihoods and products via its Sujni program. Goonj offers a large-scale example of how textile waste can be diverted from landfill, transformed into useful goods, and simultaneously create sustainable livelihoods in underserved communities.

#### Impact and scale:

- ▶ Till date, Goonj has upcycled 12 million kilograms of textiles.
- ▶ Their "Centers of Circularity" are often run by women, and donated textiles are carefully sorted, processed, and made into "Family Kits" and upcycled home products. (Goonj, 2025)

### 3) Zero Waste Ladakh — Textile Waste Upcycling Programme

Zero Waste Ladakh runs a textile waste upcycling programme aimed at creating value out of waste and empowering local communities, particularly women. This programme illustrates a local, decentralized, small-scale but impactful model of community-based textile upcycling tied directly to livelihoods and low-tech circular economy practices.

#### Key features:

- ▶ They conduct skill-building workshops (eight-week sewing training) for women on textile upcycling and repair.
- ▶ After training, participants have access to sewing machines for a year and support to develop marketable upcycled products from local textile waste.
- ▶ In one year they conducted over 100 hours of training for 20 women, used 200 kg of textile waste, and generated around USD 1,600 in income. (Zero waste Ladakh, 2025)

#### 4) Earth 5R

Earth5R is a sustainability-focused organization that runs micro-enterprise upcycling projects in urban India. One such initiative in Mumbai trained women from low-income neighborhoods to upcycle textile waste into handbags, wallets, and home décor items. Earth5R represents a replicable urban micro-enterprise model where textile waste can be upcycled locally, generating income, reducing landfill waste, and engaging communities in sustainable entrepreneurship.

#### Sustainability approach:

- ▶ Uses eco-friendly and low-energy production methods
- ▶ Encourages sustainable livelihoods and supports circular economy enterprises at the grassroots level
- ▶ The upcycling work isn't only environmental, but social, empowering marginalized communities. (Earth 5R, 2025)



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### 5) NewRetex

NewRetex is an advanced textile recycling company headquartered in Denmark. They collect post-consumer textile waste, sort it, document traceability, and process it into recycled fibre and yarn. NewRetex offers a high-technology, industrial-scale model of textile-to-textile recycling, useful as a benchmark or partner possibility for large-scale, traceable recycling operations.

#### Key features:

- ▶ They run a state-of-the-art automated textile sorting line that separates usable fibres from waste.
- ▶ They provide full documentation and traceability of textile waste, showing how much of it can be recycled into new textile fibres or must be disposed of.
- ▶ Their work reflects a modern European response to impending legislation banning textile waste incineration and mandating waste sorting and circular economy practices. (Newretex, 2025)

### 6) Doodlage

- ▶ In a world overwhelmed by fast fashion, Doodlage offers a much-needed pause, a refreshing dive into slow living and mindful choices. Inspired by Vivienne Westwood's iconic mantra, "Buy less, choose well, make it last," this brand transforms waste into wonder.
- ▶ Factory scraps, post-consumer waste, and even old sarees are given a brand-new life through thoughtful upcycling and recycling. Each piece is crafted in collaboration with skilled artisans, creating garments that are unique, purposeful, and packed with personality.
- ▶ Doodlage also promotes circular fashion by encouraging customers to return old clothes, which are sorted for reuse or upcycling. Services like customisation, repair, and alterations help extend the life of each garment, making fashion not just beautiful, but meaningful.

### 7) Ka - Sha

At Ka-Sha, clothing isn't just something to wear, it's a canvas of culture, craft, and pure joy. Each piece is a story, woven with love and rooted in Indian artisanal traditions.

From indigenous textiles to hand-done surface work, every item is made to celebrate craft in the most wearable, meaningful way possible. And because nothing should go to waste, try Heart to Haat, Ka-Sha's fabulous, functional sister label dedicated to giving scraps and discarded fabrics a second chance at life.

### 8) Juhu Beach Studio

Juhu Beach Studio (JBS) is where Mumbai's textile waste meets maximum sass! Founded by college BFFs Prakruthi Rao and Akshara Mehta, JBS started with a deep love for beautiful things and a not-so-cute reality check about fashion waste.

Instead of sulking, they turned scraps into statements and built a colourful, conscious brand powered by an all-women crew they lovingly call the waste fellows. From deadstock fabrics to bold designs, every piece is a joyful rebellion against fast fashion. Think of it as Juhu Beach vibes stitched into every thread fun, fearless, and full of heart.

### 9) Imli Dana

Imli Dana is an independent textile studio turning scraps into soulful, slow-made treasures. Using hand-knitting, patchwork, and regenerative materials, every piece is stitched with care, memory, and meaning, designed to last lifetimes (not just seasons).

### 10) Rkivecity

Rkivecity is where scrap meets swag! This upcycling fashion label transforms discarded textiles into edgy, one-of-a-kind pieces with serious street style vibes. Think patchwork denim, bold silhouettes, and zero waste attitude—fashion that's loud, proud, and planet friendly.

### 11) Paiwand

Paiwand is all about turning trash into textile treasure! Founded in 2018 by designer-weaver-eco-warrior AshitaSinghal, this upcycling studio transforms textile waste into gorgeous fabrics for fashion and home using handloom weaving, embroidery, and patchwork.

(<https://www.fibre2fashion.com/industry-article/10425/top-15-indian-clothing-brands-that-are-making-best-out-of-waste>)

## Conclusion

The conversion of post-consumer textile waste into textile products gives a promising solution for reducing environmental impact while promoting sustainable production. However, many challenges

exist, advances in recycling technology, sustainable design, and policy support can help overcome these barriers. By encouraging circular economy practices, the textile industry can play a crucial role in creating a greener future. The success of this transition depends not only on technological innovation but also on collaborative efforts among industry stakeholders, policymakers, and consumers. Stronger waste collection systems, incentives for recycling, and the integration of sustainability into design education can provide the foundation for large-scale adoption. Increasing consumer awareness and reshaping perceptions about recycled textiles are essential to ensure that eco-friendly products gain wide acceptance in the marketplace.

Investments in research and development to improve fiber separation, enhance material durability, and create scalable recycling processes will be key drivers of progress. Equally important is the establishment of clear sustainability standards and certifications to build trust and transparency in recycled textile products. The development of home textile products from post-consumer waste represents more than just an environmental initiative—it offers an economic opportunity and a cultural shift toward responsible consumption. If the industry embraces innovation while addressing existing barriers, recycled textiles can become a mainstream alternative, supporting both environmental stewardship and long-term business growth. This transformation has the potential to redefine the future of textiles, making sustainability not a choice but a standard practice.

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## Global Economy Faces 'Major Threat' from Iran War: IEA Chief

The head of the International Energy Agency said recently that the global economy faces a “major, major threat” because of the Iran war.

“No country will be immune to the effects of this crisis if it continues to do in this direction.” Fatih Birol told Australia’s National Press Club in Canberra recently.

He said the crisis in the West Asia has had a worse combined impact than the two oil shocks of the 1970s and the effect on gas markets of the Russia-Ukraine war.

His comments came as Israel launched a new wave of attacks early against Tehran.

A top American commander also told Iranians to remain in shelters for the foreseeable future, while Iran renewed strikes on its Gulf neighbours and threatened to start hitting their power plants.

Birol said 40 energy assets in nine countries across the region were “severely or very severely damaged.”

The official added that he was consulting with governments in Europe and Asia about the prospect of releasing further stockpiled oil.

“We will see, we will look at the markets,” he said. “If it is necessary of course we will do it, but we will look at the conditions, we will analyse, assess the market and discuss with our member countries.” ■

## EXPORT PROSPECTS AND MARKETS

### India's cotton exports to Dhaka safe inspite of US deal

A majority of Indian cotton stakeholders feel that shipments of the natural fibre crop to Bangladesh will continue as usual, despite the US-Bangladesh trade deal. Only some think exports to the neighbouring country may get impacted.

Dhaka has traditionally been the largest buyer of Indian cotton, while as part of the deal, it is expected to source the cotton from US.

"I don't think our-cotton exports to Bangladesh will be impacted due to our proximity. From the US and other placed, it takes a minimum of 45 days for shipments to reach Bangladesh, whereas from India, it takes 8 days. Their working finances are tight. Also, they have domestic consumption and they export to other markets like Europe, for which they need Indian cotton," said Vinay N Kotak, President, Cotton Association of India (CAI) the apex trade body.

#### Logistics Advantage

"Only 25 per cent of Bangladesh's apparel export goes to US and 50 per cent to Europe. The only problem is that we have stopped exports through road. That may affect it. If road export is opened, then we may not have any issue. After the elections (in Bangladesh), things can improve," Kotak said. The US-Bangladesh trade deal may have better implications for the domestic cotton market, believes, Lalit Kumar Gupta, CMD, Cotton Corporation of India, currently the largest stockholder in the country.

"It should be better because we are also one of the cotton bales exporter to them. If their demand increases, certainly they will import little bit cotton from us," Gupta said, adding that India has a lower logistic cost advantage to the neighbouring country when compared with other origins.

"We have also sold some cotton to the Bangladesh recently. We are selling the cotton also in export market," Gupta added.

CCI revised the domestic sale prices recently and has also set the floor price for exports.

"The export price is in line with own domestic price," Gupta added.

Ramanuj Das Boob, a sourcing agent in Raichur said, though the exports have slowed down, there is demand for cotton from Bangladesh, but at a lower rate than the prevailing market price.

### Brazilian Cotton

However, Atul Ganatra, former President, CAI ; said, "Cotton and cotton yarn exports to Bangladesh will get affected. Currently, they have been buying Indian and Brazilian cotton. But if they have to save that 18 per cent tariff, they will have to by the US cotton. If they buy the US cotton, then why will they buy the Indian cotton or yarn."

Ganatra said India's cotton exports had already come down over the past few months because of the disturbance in the neighbouring country.

Moreover, Bangladesh is getting Brazilian cotton at a cheaper at 68-69 cents per pound, which works out to ₹49,000-50,000 per candy (of 356 kg). "Why will they buy the Indian cotton at ₹55,000 levels," he said.

Further, he said that the lower imports to Bangladesh may also impact the domestic prices.

"Against our estimates of 15 lakh bales (of 170 kg each), the overall exports this year may hardly be around 10 lakh bales," he added. CAI has estimated cotton exports for the 2025-26 season ending September at 15 lakh bales against previous year's 18 lakh bales.

Till January end, about 6 lakh bales have been exported. □

### Apparel exporters in fear of rising logistic & insurance cost due to West Asia scenario

Indian apparel exporters are bracing for delays and higher costs on shipments to the UAE, their fourth-largest market, as tensions in West Asia threaten to disrupt key sea routes.

Exporters say even a modest rise in freight and insurance could squeeze the already thin margins and make it harder to meet contracts.

"Any escalation in logistics and insurance costs due to the West Asia scenario puts us in a very tight spot," said Confederation of Indian Textile Industry chairman, Ashwin Chandran.

A senior executive at a leading apparel exporter, who declined to be named, said key meetings with Middle East buyers have been cancelled in the middle of the shipping season. "Orders are under execution. If the Red Sea closes, logistics costs will rise and turnaround time could increase by 15-20 days," the executive said.

The Gulf Cooperation Council (GCC) comprising Saudi Arabia, UAE, Oman, Quatar, Bahrain and Kuwait remains a key trade and economic partnern for India, particularly for apparel. India's apparel



## EXPORT PROSPECTS AND MARKETS

exports to the GCC stood at \$1.8 billion in FY 25. "Coming in the backdrop of the continuing uncertainty on the US tariffs issue and the recent reduction in the rates under the Remission of Duties and Taxes on Exported Products Scheme, the tumultuous developments in West Asia have further added to the challenges faced by Indian textile and apparel exporters," Chandran said.

"Considering the narrow margins under which textile and apparel exporters operate, any escalation in the cost of logistics and insurance due to the West Asia scenario puts them in a very tight spot, affecting their ability to meet contractual obligations besides significantly raising operating costs," he pointed out.

Vinod Thapar, chairman of Knitwear Club in Ludhiana, said that the Middle East is among the most important overseas markets for knitwear products manufactured in the city. "A substantial share of garments manufactured in Ludhiana is supplied to the Middle Eastern markets. But the current tension has led buyers to adopt a cautious stance, weakening overall trade sentiments."

Thapar pointed out that petroleum derivatives also form the backbone of man-made fibres such as polyester, viscose and nylon, which account for a growing share of global apparel consumption. Oil is the primary raw material for polyester yarn derived from petroleum based hydrocarbons.

"Crude prices have already gone up and it will impact manufacturing of man-made fibres," he said.

Tirupur, producing over 40% of India's knitted garments is navigating a tight fashion cycle.

"The orders for April are at various stages. Some have already been shipped. And some are being manufactured. And any delay in its delivery has financial implications which may result in discount pressure on off season garments," said Raja M Shanmughan, former president, Tirupur Exporters Association. □

### India surpasses China as largest exporter of cotton products to US

India has displaced China as the largest supplier of cotton products, such as apparel and home textiles, to the United States during 2025, according to the USDA's latest global market analysis.

Factors such as higher tariffs and US firms' reducing dependence on China helped other suppliers, including India, gain market share in that country.

US cotton product imports were flat in calendar year 2025 at 3.3 million tonnes (mt), equal to the 15-year average.

Imports from China went down to about 0.5 mt in 2025, while imports from India were around 0.6 mt during the year.

#### Tariff effect

The US had announced several rounds of tariffs on China that ranged from 10 to 125 per cent. While other countries also had varying levels of tariffs applied throughout the year, they were less than half of the highest rate applied on China.

These conditions allowed India and other suppliers, such as Vietnam, Bangladesh, Pakistan, Mexico and Cambodia, to expand market share in the US, the USDA said.

Further, the USDA said India benefited from vertically integrated textile supply chains that enhance firms' ability to comply with traceability standards.

In contrast, firms have been lessening their dependence on China due to the Uyghur Forced Labour Prevention Act (UFLPA) and the perception of increasing geopolitical risk, which has expanded to include tariff uncertainty. US cotton product imports from China have dropped 60 per cent since peaking in 2010.

#### US Imports to Soar

The US is the largest importer of cotton products. Though imports were flat, the retail sales at clothing stores in the US are estimated to have risen 5 per cent to a new record, the USDA said.

Despite strong consumer demand, flat imports suggest that retailers drew inventories lower to minimise costs related to the fluid tariff environment.

During 2026, the imports of US cotton products are expected to rise because of low retailer inventories and stable consumer demand, the USDA said.

Changing trade policies will continue to influence where these products are sourced from.

Further, the USDA said the global production for 2025-26 is forecast up 1.1 million bales (of 480 pounds each) to 121 million bales on higher crops in Brazil and China.

Global consumption is forecast down more than 0.1 million bales to 118.6 million as reduced demand in Pakistan, Bangladesh, Mexico and Vietnam more than offset the higher demand in China.

Global trade was raised by 0.2 million bales to 43.9 million on higher exports from Australia.

**EXPORT PROSPECTS AND MARKETS**

Higher imports by India offset the lower imports by Pakistan, Bangladesh and Vietnam.

Global ending stocks were raised nearly 1.3 million bales to 76.4 million as higher ending stocks in India and Brazil more than offset the lower ending stocks in Australia and Argentina. □

**Rise in raw material costs hits Tiruppur textile industry**

Textile exporters and processing units in Tamil Nadu are grappling with a fresh challenge now — a sharp increase in raw material prices triggered by the ongoing West Asia crisis.

Industry sources said the surge in the costs of key inputs used in textile processing and garment manufacturing are already beginning to ripple across the supply chain in Tiruppur, India's largest textile cluster.

Rajkumar Ramasamy of Best Corporation said the spike in raw material costs could affect the global competitiveness of the Tiruppur knitwear industry. "Polyester supply itself is affected, which in turn impacts synthetic fabrics, sewing threads and other inputs," he said.

Kumar Duraisamy, MD, Tiruppur-based Eastern Global Clothing, said the cost of polyester fibres had increased about 6 per cent, and the prices of textile dyes, finishing chemicals, solvents and auxiliaries had also moved up. Prices of coal used by textile processing units have increased 30-35 per cent, he said, adding that these had pushed up garment manufacturing costs nearly 5 per cent.

**Input Costs**

The Tiruppur dyeing industry has announced an increase in charges following a steep rise in the prices of essential chemicals and fuels used in textile processing.

According to industry representatives, polyester prices had also increased sharply following a rise in yarn costs, with prices going up by about ₹14 per kg or 20 per cent.

P. Gandhirajan, President of the Tiruppur Dyers Association and MD of Tiruppur based Atul Process, said the conflict had disrupted supply chains and pushed up prices of major raw materials used in dyeing and processing.

Consequently, dyeing units had been forced to increase processing charges ₹10 per kg for bleaching and light colours, ₹15 per kg for medium colours and ₹20 per kg for dark colours, he said.

Gandhirajan said the suspension of commercial and industrial gas supply and a rise in the cost of firewood used by dyeing units had added to the burden.

However, exporters said passing on costs to international buyers will be difficult. "It is very difficult to increase prices. However, due to the crisis' global impact, buyers may consider a small increase," Duraisamy said.

Open-end spinning mills have been severely affected by polyester price hike. Nearly half of the open-end mills use polyester fibre as the main raw material. In March, polyester firms raised polyester cost four times. Normally, they fix price on the 1st and 15th of every month. However, due to West Asia crisis, they increased once in every two days, said G Arulmozhi, President, Open End Spinning Mills Association. □

**Textile Jewellery, Engg Cos anticipate Order Book to Swell**

Apparel and home textile exporters are anticipating a 20% rise in overseas shipments over the next five to six years provided they are able to build sufficient capacities to meet an expected surge in orders from the US.

The engineering sector, on the other hand, aims to recovery lost market share through higher exports of machinery parts. Pumps, compressors and electrical equipment, following the Trump administration's move to cut tariffs on Indian goods to 18% from 50%.

A tariff reset by the US would also enhance landed-price competitiveness and support stronger offtake across both basmati and non-basmati rice varieties. This would allow india to expand market share in the US while competing more effectively with other countries, according to rice exporters.

"Similarly, products such as machinery. machinery parts, pumps, compressors, electrical equipment, auto components, steel and aluminium items. industrial valves, and boilers will gain a clear advantage in the US market as a result of the lower tariff," said Pankaj Chadha, chairman, Engineering Export Promotion Council (EEPC).

Although the US government's Section 232 tariffs on steel, aluminium, automobile and auto components remain in place, there is growing hope that the new trade deal may eventually pave the way for easing those as well. India's home textile and furnishing industry, and US importers were among the worst affected by the 50% tariffs imposed by the US, according to the cotton textile exporters.



## EXPORT PROSPECTS AND MARKETS

In January-November last year, India had the largest volume share of cottonsheets and terry towels imported into the US at 45% and 38% respectively. The latest 18% tariff is comparatively lower than India's competing countries such as Pakistan, Bangladesh, Vietnam, and China. "It is now important for the industry to get ready as current capacities will not allow us to seize this big opportunity", said Sanjay K Jain, chairman, ICC National Textile Committee.

"We are not talking of a 5-10% increase. I can see a high double digit or even more than 20% increase in garment exports if you're able to build capacity over the next few years."

The Gem & Jewellery Export Promotion Council (GJEPC) termed the India-US trade agreement as a "vital relief measure for India's gem and jewellery sector", which faced severe pressure from escalating US tariffs.

The US remains India's largest gem and jewellery export market, accounting for 31% at \$9.23 billion of total exports in FY 25.

In 2025, reciprocal tariffs disrupted trade flows to the US sharply. Duties on polished diamonds and coloured gemstones surged from nil to 10% in April, and further to 50% by August—unviable for these raw materials, straining working capital, liquidity, and margins. Jewellery duties jumped from 5-7% to 55-57%.

The high tariffs led to a 44.4% drop in India's gem and jewellery exports to the US during April-December, severely affecting key categories, said Kirit Bhansali, chairman, GJEPC.

"The tariff cut lowers costs for US importers, provides immense relief to diamond jewellery manufacturers, enhancing the competitiveness of Indian diamond jewellery in the largest export market," he said. "This is poised to revive demand and stabilise operations." □

### Textile exporters call for restoration of RoDTEP

Textile exporters have expressed apprehension that exports will be hit with reduction of Remission of Duties and Taxes on Exported Products of (RoDTEP) scheme rates.

Cotton textile exporters in 2024-2025 stood at \$11.03 billion (almost ₹96,220 crore) and it accounts for 30% of India's textile and clothing exports.

Close to 58% of the exports of cotton textiles have been affected by the sudden reduction in RoDTEP rates, the Cotton Textiles Export Promotion Council said.

The RoDTEP committee is reviewing the rates and the unexpected reduction of rates has led to uncertainties, the Manmade and Technical Textiles Export Promotion Council said.

There is a rush to ship goods in March as the financial year will conclude and exporters will be affected.

The RoDTEP scheme is only remission of the taxes and duties already paid and exporters would have calculated the costs based on the earlier RoDTEP rates, the exporters said. □

### Indian textile exporters will enjoy same tariff benefits in the US as Bangladesh: Piyush Goyal

Indian textile exporters will get the same benefits as their Bangladeshi competitors in the US market and be allowed to export at zero reciprocal tariffs subject to raw-material sourcing requirements, Commerce & Industry Minister Piyush Goyal has said.

While the move has cheered garment manufacturers, who feared losing ground after Bangladesh secured its quota-based duty-free deal with the US, it has sparked concern among Indian farmers over the potential influx of American cotton.

"Just as Bangladesh has a facility that if raw material is purchased from America, process it and make cloth and export it, then it will be available at zero reciprocal tariff, India also has the same facility and India will also get it. At the moment, India and the US have a framework agreement. When it will be finalised into interim agreement, you can see this in the fine print," Goyal told reporters recently.

Per the Bangladesh-US joint statement issued of late, Washington committed to establish a mechanism that will allow for certain textile and apparel goods from Bangladesh to receive a zero reciprocal tariff rate. "This mechanism will provide that a to-be-

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specified volume of apparel and textile imports from Bangladesh can enter the US at this reduced tariff rate, but this volume shall be determined in relation to the quantity of exports of textiles, for example, US-produced cotton and man-made fibre textile inputs, from the US," the joint statement noted.

Goyal pointed out that the requirement of sourcing raw materials was there in the US-Bangladesh pact and would be part of India's agreement as well. He added that it will not adversely impact Indian cotton farmers, as the US had limited cotton production.

According to trade expert Abhijit Das, a big difference between India and Bangladesh is that the latter hardly grows any cotton. India's monsoon-sown cotton production is 29.22 million bales in 2025-26, marginally lower than 29.72 million in the previous year. The government had allowed import of cotton at zero duty until December 31 to augment domestic supplies, leading to a significant uptick in arrivals.

#### Farmers' Concerns

Some Indian farmers are apprehensive about what the deal will finally entail. "We want more transparency in the negotiations. While the textile industry knows what is happening, we are kept in the dark. A large number of Indian cotton farmers will be impacted adversely if import of US cotton is eased," said Kannaiyan Subramaniam, President, Thalavady Farmers Association.

The US is trying to "snatch" India's cotton market from India, said Rampal Jat, National President, Kisan Mahapanchayat.

"It is essential to determine accountability for the failure to adopt an appropriate policy in this trade agreement in a timely manner," Jat said.

While the US has fixed reciprocal tariffs of 18 per cent on Indian goods (to be soon brought down from 25 per cent), the reciprocal tariffs on Bangladeshi goods are at 19 per cent, down from 20 per cent after the revised deal. The MFN tariffs (regular tariffs applicable on all countries) on garments in the US is around 16 per cent, which will likely be applicable on exports from both Bangladesh and India, irrespective of the level of reciprocal tariffs. ■

#### Tiruppur sets the target of \$10 billion exports to Europe

India's knitwear hub Tiruppur is positioning itself for its next growth leap as free trade agreements

(FTAs) with the UK and the European Union near fruition, industry leaders said at a summit in Chennai recently.

"We have set an ambitious target of \$10 billion in apparel exports by 2030," said N Thirukkumaran, Chairman, Esstee Exports India Ltd, Tiruppur, and Secretary Tiruppur Exporters Association.

India's total apparel exports currently stand at about \$16 billion, with Tiruppur alone contributing nearly \$5.2 billion — roughly a third of the country's shipments, he said at the CII's 5th National Exports Competitive Summit 2026.

With the Prime Minister setting a national target of \$40 billion in apparel exports as part of the broader \$100 billion textiles goal by 2030, Tiruppur is expected to play a pivotal role, said Thirukkumaran.

#### Game Changer

Exporters believe Europe will be a "game changer". While India has already signed trade agreements with the UAE and other GCC countries, duty-free access to the UK and the EU could significantly improve Tiruppur's competitiveness against rival sourcing hubs.

Industry representatives noted that FTAs with a few European countries often open doors across the wider European market, multiplying export opportunities.

A key differentiator for Tiruppur, he said, is its cluster-level sustainability framework. Unlike other global apparel hubs where compliance is limited to individual firms, Tiruppur operates common effluent treatment plants and shared ESG infrastructure, making it one of the few clusters globally aligned with emerging environmental and social disclosure norms. With sustainability set to become a baseline requirement for doing business, this advantage is expected to gain prominence, he said. Tiruppur cluster is also recording its growth strategy towards man-made fibre garments, athleisure and value-added products, reflecting global consumption trends.

Industry leaders acknowledged challenges in synthetic fibre supply chains but expressed confidence that new investments in fibres such as lyocell in Tamil Nadu would strengthen competitiveness, he said. Sunil Jhunjhunwala, Co-Founder, Techno Sportwear Pvt Ltd, said free and fair availability of raw materials and mobility of labour work force will be critical for the industry. ■

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- ▶ Platform arrangement for Automatic Loading & Unloading

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## World's Longest Ring Frame in Operation— LMW Ring Frame LRJ 90 (2400 Spindles with 65 mm gauge) at Pongalur Pioneer Textiles

In a spinning industry where productivity, space efficiency and energy optimization define competitiveness, Pongalur Pioneer Textiles has commissioned fourteen LRJ 90 Series ring frames from LMW Limited, each configured with 2400 spindles. The total addition of 33,600 spindles sets a new global benchmark in modern ring spinning.

### A Strategic Expansion – Not Just a Machine Installation

Pongalur Pioneer Textiles, with about 1.4 lakh spindles, is known for its focus on premium combed compact yarns and strong process discipline are aimed to,

- ▶ Increase output per machine
- ▶ Improve productivity per square meter
- ▶ Reduce infrastructure intensity
- ▶ Enhance energy efficiency and to
- ▶ Maintain uncompromised yarn quality

### Ring Frame LRJ 90 – The Engineering Differentiator

What truly differentiates is the breakthrough engineering innovation in achieving the longest Ring frame that redefines mills economics mainly on OPEX, Higher productivity with lesser UKG and consistency in quality.

- ▶ 2400 spindles, with 65 mm gauge
- ▶ Smart spinning geometry enabling better twist flow, increase in spindle speeds upto 1500 to 2000 rpm with lesser end breaks.
- ▶ Rugged design of spindle rail ensures higher speeds with less vibration
- ▶ 8% higher productivity & 8% space savings.
- ▶ Up to 10% power savings with HLED spindles + HK RYC along with lower vibration and sound.
- ▶ Rugged design of Head stock, drafting drive with Quadro T flex and dual drive ensures torsion free drafting load and production of slub yarns.

- ▶ New Energy efficient suction system – stationary pneumafil suction system equipped with AWES group suction as an option & Compact suction.
- ▶ Auto doffer: Peg movement - 4 pegs / stroke & pegs / min in the range of 45 – 50
- ▶ Longer maintenance intervals due to design of gripper rail up & down movement (Similar technology used in Computer Numerical Control (CNC) machines)
- ▶ Savings in OPEX – Building cost, Humidification and Lightening & Operator fatigue.
- ▶ Least cost per kilogram of yarn produced
- ▶ With optimal design of drives & rigid construction, the 65 mm gauge Ring frame achieves an at par performance with regular Ring frame with respect to Ballon control, Fly generation and Heat loads. 30,000 rpm is practically possible due to the above features.

### Performance from the Mill Floor - Innovative Engineering at an Unprecedented Scale



- ▶ Stable high-speed running
- ▶ Improved manpower utilization
- ▶ Reduced operator movement (two-side operation concept)
- ▶ Faster stabilization during commissioning
- ▶ Optimized auxiliary and winding investment

## World's Longest Ring Frame in Operation—LMW Ring Frame LRJ 90 (2400 Spindles with 65 mm gauge) at Pongalur Pioneer Textiles

### Management Perspective:

“The decision to install Ring Frame LRJ 90 configuration was taken to improve productivity, space utilization and operational efficiency while maintaining yarn quality.

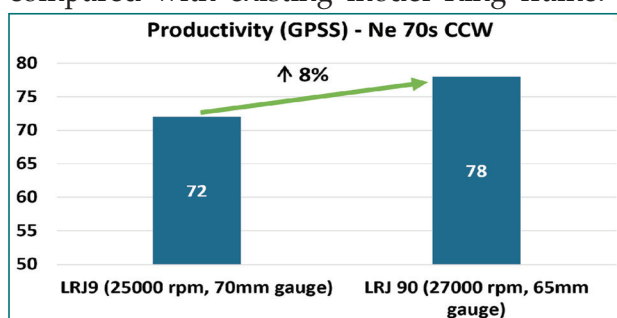
The successful stabilization of the machine reflects the technical capability of the mill team and close collaboration with LMW during commissioning.

This installation strengthens the mills strategy of combining advanced technology with strong process management to remain competitive in premium yarn segments”.

Since commissioning, Pongalur Pioneer Textiles has experienced strong satisfaction with the machine’s performance in terms of:

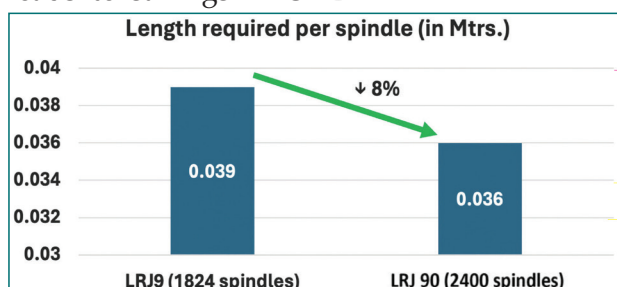
### Productivity

Machine runs at a maximum speed of 27000 rpm for Ne 70s CCW, producing a remarkable 78 GPSS, 8% productivity gain compared with existing model Ring frame.



### Space Savings

65 mm gauge concept has led to a space savings of nearly 8%, helping mills to accommodate 8% higher spindles per machine, leads to savings in OPEX.



Mr. S Aravind,  
Managing Director,  
M/s Pongalur Pioneer Textiles

### User Friendliness

2400 spindles machine layout allows operators to comfortably attend to just two sides of the machine instead of three. This significantly reduces unnecessary walking & operator fatigue. The result is improved worker comfort, higher efficiency, and better productivity per operator.

### Auxiliary and other benefits

Ring Frame LRJ 90 enables significant savings in auxiliary & winding investments. Increased winding drums per machine, lead to lower investment costs on the winding equipment. Also, significant savings in building cost, humidification, lightening, power distribution & OHTC etc.

Mr S Aravind adds, “This collaboration reinforces LMW’s engineering leadership in longer Ringframe configurations (2400 Spdls / mc) and strengthens Pongalur Pioneer Textiles’ position as a forwardlooking, technologydriven spinning enterprise”.



“Crafting Future Ready Spinning Mills”

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## Instruments for Processing & Dyes Testing

- |                                                                              |                                                                                                                                                                                                 |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01. Infra Colour Dyeing Machine.                                             | 16. Perspiro Meter.                                                                                                                                                                             |
| 02. Rota Beaker Dyeing Machine With Dosing System.                           | 17. Water Bath Machine with Dye Pot.                                                                                                                                                            |
| 03. Rota Beaker Dyeing Machine.                                              | 18. Lab Stirrer / Magnetic Stirrer with Hot Plate.                                                                                                                                              |
| 04. Glycerin Bath Beaker Dyeing Machine.<br>(H.T.H.P. Beaker Dyeing Machine) | 19. GSM Round Cutter. GCM Cutter without Blade & Pad.                                                                                                                                           |
| 05. Launder-O-Meter Washing Fastness Tester.                                 | 20. Digital Balance. Min. Cap. 100 gram.<br>0.0001, 0.001 & 0.01 mg. Accuracy.                                                                                                                  |
| 06. MBTL Light Fastness Tester (Texlab Make)                                 | 21. GSM Scale.                                                                                                                                                                                  |
| 07. Sublimation Fastness Tester.                                             | 22. Shrinkage Scale.                                                                                                                                                                            |
| 08. Digital Crock Meter (Rubbing Fastness Tester)<br>Motor Operated.         | 23. Grey Scale AATCC & ISO                                                                                                                                                                      |
| 09. Spectro photo Meter. Japan Make & Indian Make.                           | 24. Borosil Glass Ware / Lab. Testing Chemicals.                                                                                                                                                |
| 10. Auto-Dispensing System. (Computerized Color Kitchens).                   | All ranges of Reactive Dyes, Direct Dyes, Acid<br>Dyes and Vet Dyes, Also Pigment Dye.                                                                                                          |
| 11. Color Matching Cabinet.                                                  | 25. Vacuum Pump.                                                                                                                                                                                |
| 12. Leather Color Matching Machine.                                          | 26. All type of consumables and spares supplied<br>for the textile laboratory requirements. GSM<br>Cutting Pads, Round Cutter Blades, Crocking<br>Cloth, Multi Fiber Fabrics, Adjacent Fabrics. |
| 13. Hot Air Oven.                                                            | ASTM, AATCC, USA, SDC-UK                                                                                                                                                                        |
| 14. Pneumatic Padding Mangle Motor Operated.                                 |                                                                                                                                                                                                 |
| 15. Laboratory Steamer with Super Heater.                                    |                                                                                                                                                                                                 |

**Instruments for Cotton Testing ♦ Instruments for Yarn Testing ♦ Instruments for Cloth/Fabric Testing**

## **TEXLAB** Industries

**Manufacturers of Textile, Dyes & Chemical Laboratory Testing Instruments.**

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### **SIMA Texfair 2026 - An expo that enabled the entire textile value chain to explore new technologies, empowered networking and drive industry growth**

The Southern India Mills' Association (SIMA), Coimbatore organized Texfair 2026, 15th of its kind. The largest Expo for Textile Machinery, Accessories, Spares and other supporting services during March 6-9 at CODISSIA Trade Fair Complex, Coimbatore.

Texfair 2026 has once again reinforced the importance of technological innovation and collaboration in strengthening India's textile industry. The four-day Exhibition brought together Manufacturers, Suppliers and Industry experts from across India and abroad to showcase the latest developments in Textile Machinery, Accessories and Spares. The event featured over 240 exhibitors and 258 stalls, with participants from Coimbatore, Mumbai, Ahmedabad, Bangalore, etc., including several exhibitors from Countries such as Switzerland, Germany, Italy, China, Egypt, etc.



At the inaugural function of Texfair 2026 held on 6th March 2026, SIMA Chairman Shri Durai Palanisamy delivered the welcome address. The function was inaugurated by Chief Guest Shri P. R. Venketrama Raja, Chairman, Ramco Group, and presided over by Shri Ashwin Chandran, Chairman, Confederation of Indian Textile Industry (CITI).

The Guests of Honour included Shri Suresh Babuji, IEDS, Head of Office, MSME Development and Facilitation Office; Shri Shaleen Toshniwal, Chairman, Man-Made and Technical Textile Export Promotion Council (MATEXIL); Shri K. R. Kanagarajan, President, ITMAA; Shri Omprakash Mantry, President, ITAMMA; and Shri Prashant Mangukia, Chairman, TMMA.

The inaugural function also featured the keynote address by Shri Prashant Agarwal, Joint Managing Director, Wazir Advisors. Chairman of Ramco

Group, P R Venketrama Raja in his inaugural address, said the four-day event is important as it showcases technologies that are available to bring down costs. In the last few years, the textile mills have been facing demand volatility, margin pressure and a constant need for investments. In the coming decade, the mills should focus on speed & responsiveness, quality & consistency, sustainable production, operation efficiency & productivity.



The Indian textile and apparel sector is targeting \$350 Billion business size by 2030 and this needs sustained investments in advanced machinery, digitization, automation and smart manufacturing systems said Shir Ashwin Chandran, Chairman of the Confederation of Indian Textile Industry. Sustainability is a defining trend, it is essential for long term business and involves costs. Businesses should look at it as long term investment he added.

Shri Shaleen Toshniwal, Chairman, Manmade and Technical Textile Export Promotion Council, said that 70% of global textile business is in the manmade fibre sector as it gives comfort to the users and performance. Technical textiles that uses MMF also have multiple applications. The technical textile industry in India is expected to grow to \$50 Billion by 2030. The textile industry should focus on modernization, innovation and sustainability, he said.

Joint Managing Director of Wazir Advisors, Shri Prashant Agarwal spoke on the benefits of the India's Free Trade Agreements with the UK and the European Union. He concretely said that the buyers in these Countries are looking at alternatives to China and the Indian companies should offer scale and automation.

Shri S Suresh Babuji, IEDS, Director of MSME Development and Facilitation Office, informed that the Central Government is setting up a tool Centre

in Coimbatore on 14 acres, will be operational in two years and that it would promote the MSMEs in the engineering sector.

Summing up the needs of the industry in the current scenario, SIMA Chairman stated that the Central Government should remove the import duty on cotton and reinstate the Remission of Duties and Taxes. SIMA Deputy Chairman, Shri S Krishnakumar briefed about SIMA Texfair 2026. Presidents of ITMAA, ITAMMA and TMMA offered felicitations. Vice-Chairman Shri K Sivaraj delivered vote of thanks.



Coinciding with Texfair 2026, SIMA organized the SIMA AiTex Summit in the afternoon of 6th March 2026 at the CODISSIA Trade Fair Complex.

Artificial Intelligence (AI) and automation are rapidly transforming textile manufacturing by improving productivity, enabling the production of high-value products with consistent quality, reducing manual intervention & waste and facilitating predictive maintenance.

SIMA Chairman Shri Durai Palanisamy inaugurated the summit and stated that by leveraging AI, ERP integration, intelligent data extraction and real-time analytics, traditional manual and experience-driven processes can be transformed into structured, data-driven systems.

He further emphasized that the summit highlighted the need for widespread adoption of AI and digital technologies in the textile industry to enhance operational efficiency, strengthen global competitiveness and build a resilient and future-ready manufacturing ecosystem.

The expert sessions at the summit covered several key topics, including Leveraging Data and AI Technology for Overall Excellence, LMW e-Spares ERP Integration and Tracker, centralised ERP-integrated tool that captures forex exposures and maps them against hedge contracts to provide real-time visibility and improved financial risk management. Other sessions focused on Digital

and Operational Automation in Textile Mills with EXIM Automation and Trade Compliance, Cotton Testing through HVI and AFIS Data Integration, Dispatch Entry Automation, and practical success stories on transforming spinning production from data to decision-making.

Mr. Saravanan Ramanujam, Principal Industry Business Development – Manufacturing at Amazon Web Services, along with Mr. Sreevigneshwaran, Manager – Presales at Petrus Technologies, highlighted how data and artificial intelligence can transform the operations of the spinning mills. The speakers explained that modern mills can move beyond intuition-based decision-making to measurable, data-driven performance systems. By leveraging AI and advanced analytics, mills can achieve operational excellence through improved quality control, reduced machine downtime, optimized production processes and better energy management.

Another important operational improvement was presented by Mr. Mathan Mohan C. S., Head, Spare Parts and Components, Lakshmi Machine Works Limited. He explained the challenges earlier faced by customers while generating spare part quotations through the company's portal. The previous process required manual login and item selection, which made it time-consuming and prone to human errors.



By integrating the LMW API directly with the customer's ERP system, the quotation retrieval and sales order creation processes have now been fully automated. This integration significantly enhances efficiency, reduces manual intervention and enables faster procurement of critical spare parts.

Financial risk management was another key topic addressed during the session. Mr. Subramanian Sharma, Director at Greenback, demonstrated how organizations can manage foreign exchange exposure more effectively using digital tools. A centralized



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ERP-integrated platform captures forex exposures and maps them against hedge contracts, enabling real-time visibility and better financial risk management. This approach helps exporters and manufacturers respond proactively to currency fluctuations.



Mr. Vaishak, Founder of Leverageaxiom, discussed automation solutions designed specifically for exporters and manufacturers handling EXIM processes. Many organizations still rely on manual Excel tracking, which often leads to missed obligation deadlines, data inconsistencies and scattered documentation. The proposed system fully automates EXIM workflows for users of Advance Authorization (AA), EPCG, RoDTEP and Duty Drawback schemes.

The platform eliminates the limitations of paper-driven systems by addressing common problems such as manual errors, delayed updates and fragmented documentation. Automated bots replace manual workflows by downloading license documents directly from the DGFT website and retrieving Bills of Entry or Shipping Bills from email systems. A Power Apps-based AI document extraction system processes the data and generates interactive dashboards. In addition, Power AI dashboards and automated email alerts provide summaries and timely notifications. With an extraction accuracy of nearly 99%, the system operates with minimal manual intervention.

Mr. T Mani, Founder & CEO of Kalpatharu Software Limited showcased several AI-driven solutions designed specifically for spinning mills. One such innovation is an AI-based Cotton Mix Cost and Quality Predictor, which forecasts key quality parameters such as CV%, CSP, and waste percentage even before production begins. This

enables mills to evaluate the cost implications and quality outcomes of different cotton mixes in advance.

Another solution presented was the AI-powered Power and Energy Cost Optimizer, which analyzes feeder-level energy consumption data to detect abnormal usage patterns. Based on these insights, the system recommends load optimization strategies, helping mills reduce energy consumption and lower power costs per kilogram of yarn produced.

The session concluded with a strong message - the future of spinning mills lies in the integration of AI, automation and data analytics. By adopting these technologies, mills can achieve greater operational transparency, improved productivity, and stronger financial and process control, paving the way for a more efficient and digitally empowered textile industry.



We thank all the exhibitors for showcasing their products and services, Top Management of the Industry and CEOs of mills for visiting & deputing their technical personnel and also the visitors from various textile clusters across the country for making the Expo yet another success event.

Apart from machinery displays, the fair served as an important networking platform where Manufacturers, Suppliers and Buyers exchanged ideas and explored new business opportunities. With a footfall of around one lakh visitors, the exhibition facilitated knowledge sharing and strengthened collaboration within the textile ecosystem.

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## Jeanologia rolls out Billy

### The first artificial intelligence for denim design

- ▶ The new AI extracts precise laser designs from a garment image in minutes, transforming how vintage denim is recreated for production.
- ▶ If Jeanologia's laser changed the way jeans were made at the end of the last century, its AI now takes the next step: moving from reproducing wear to designing it.

Over 25 years ago, Jeanologia revolutionized the denim industry by introducing laser technology for jean finishing, a solution that replaced manual processes with high impact on both workers' health and the environment, marking the beginning of a new era in denim production. Today, the Spanish company is once again transforming the sector with the launch of BILLY, the first artificial intelligence developed specifically for the denim industry, capable of extracting precise designs directly from a picture. With this launch, Jeanologia brings AI into one of the most creative and complex phases of denim development: design.

For decades, translating the character of a vintage garment into a laser design ready for production required hours, sometimes even days, of work by highly skilled designers. Achieving an authentic result depended not only on their experience and precision, but often also on manual retouching during production to refine the final look.

With Jeanologia AI, this process changes completely. In just minutes, the system analyzes a garment image and extracts a precise laser design, capturing the natural wear patterns and authentic character of vintage denim. The result is a design perfectly optimized for laser technology, eliminating the need for manual retouching or inefficient traditional processes in production. With BILLY, that process becomes almost instantaneous. By analyzing a garment image, the system extracts a precise laser design that captures the natural wear patterns and character of vintage denim. The result is a design perfectly optimized for laser technology, ready to be executed with accuracy and consistency, without the need for manual retouching or inefficient traditional processes.

"BILLY brings intelligence to the creative process," explains Enrique Silla, CEO of Jeanologia. "For the first time, designers can transform a garment image into a precise laser design ready for production in just minutes. What previously required a full day of expert work can now be achieved almost instantly."

More than a new tool, BILLY represents a game changer for denim design, connecting inspiration,

digital creation, and industrial execution in a matter of minutes.

### From heritage to artificial intelligence

The name BILLY pays tribute to one of the most emblematic garments in the Jeanologia archive: a pair of jeans dating back to World War II. The garment belonged to a young American soldier named Billy who crossed the ocean to fight in Europe. Decades later, Jeanologia acquired the jeans, which became a central piece of the company's 'Truth & Light' exhibition, where the industry first saw how technology could reproduce the authentic wear patterns of vintage garments.



Every repair, fade, or crease on these jeans tells a story, capturing a moment in time and reflecting the authenticity that defines denim culture. Today, that same spirit inspires the development of BILLY AI, transforming that legacy into a digital tool that shapes the future of jean design.

"As a company, we have spent decades studying vintage garments to understand how denim naturally ages," adds Enrique Silla. "BILLY AI translates that accumulated knowledge into intelligence."

BILLY has been trained with over 9,000 laser designs, developed by Jeanologia during more than 25 years of experience working with laser technology and creating laser files. That extensive archive allows this new generation of multimodal artificial intelligence to understand the structure, depth, and natural behavior of denim wear patterns, extracting them from any garment image and converting them into accurate laser designs ready for marking.

Combined with Jeanologia's laser technology, the system ensures that what is designed digitally is reproduced on the garment with precision, consistency, and authenticity.

### Empowering designers and accelerating creativity

Beyond efficiency, BILLY is designed to empower designers. "BILLY does not replace designers; it amplifies their creativity," explains Enrique Silla. "It removes the most labor-intensive technical work and allows them to focus on what truly matters: creating." By automating the extraction of complex wear patterns, designers can dedicate more time to creative exploration and concept development rather than technical reconstruction. This new

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workflow accelerates product development cycles and allows designs to move from inspiration to production more quickly and accurately.

BILLY also responds to one of the strongest fashion trends nowadays, the demand for authentic vintage aesthetics. From luxury houses to premium brands, retailers, and fast fashion, jeans with character and a vintage look remain central to collections. However, reproducing complex wear patterns required extensive manual work, often involving water-intensive, chemical, and labor-intensive processes with high environmental and safety costs.

With BILLY extracting the design and laser technology executing it with precision, brands can now recreate authentic vintage garments with unprecedented accuracy and reproducibility. The process is efficient, precise, and sustainable, eliminating the need for manual retouching while guaranteeing quality, authenticity, and natural-looking results.

Jeanologia pushes the boundaries of denim innovation once again, bringing artificial intelligence directly into the creative process. The company reinforces its commitment to a more digital, creative, and eco-efficient denim industry, where technology preserves the essence of the past while redefining the design of the future.

#### **Jeanologia: 30 years leading the transformation of the textile industry**

Since its founding, Jeanologia has been on a mission to transform the textile industry into a more ethical, sustainable, and efficient model. The company works closely with brands, retailers, and suppliers on this transformative journey, offering disruptive technologies, innovative software, and a new operational model. Their groundbreaking solutions, including laser technology, G2 ozone, Dancing Box, e-flow, H2Zero, and ColorBox, have redefined garment design and finishing standards, eliminating polluting processes and significantly reducing the use of water, energy, and chemicals. Thanks to these advancements, Jeanologia has saved millions of liters of water and eliminated harmful substances, turning its vision of a truly sustainable textile industry into reality.

From the introduction of its laser technology in 1999, which revolutionized denim finishing, to its current challenge of implementing a revolutionary sustainable garment dyeing process, the Spanish company has pioneered solutions that not only benefit the environment but also optimize operational costs. Looking ahead, Jeanologia remains committed to creating an eco-efficient and ethical textile future, encouraging all industry stakeholders to join its Mission Zero initiative: dehydrate and detoxify the textile industry. No

more water and toxic chemicals used in garment finishing around the world.

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## **Beyond traditional campaigns spykar launches Her Hustle Kit on International Women's Day**

This International Women's Day, Spykar moves beyond traditional campaigns and conversations to do something significant for their female tribe. They identified a problem that is relatable to women everywhere - hectic handbags with many random yet important things!

As they carefully balance everything from boardroom presentations to school pick-ups, women's worlds are beautifully chaotic. As they juggle between "ghar, office, gossip, and gym," their hand bags are their true partners in crime! To end the woeful days of handbag rummaging, Spykar announced a limited-edition 'Her Hustle Kit.' A premium, durable, and stylish denim pouch, it is designed to be the ultimate sidekick in her everyday juggle.

This kit will be gifted to every woman who shops at the Spykar store throughout the Women's Day weekend (March 7 and 8). Each kit includes a limited-edition denim pouch, a special gift voucher, and a celebratory note. More than just a gift, it is a reminder that behind every confident woman lies preparation, resilience, and readiness for whatever the day brings.

Talking about what prompted Spykar to announce this unique initiative, Sanjay Vakharia, Co-founder and CEO, Spykar, said, "A pouch is a necessity for every woman's handbag - age, job, city no-bar. It holds her transitions from a 9-to-5 leader to a 6-to-9 dreamer, from boardroom presentations to school pick-ups. Whether it's a lipstick for a last-minute plan, a charger that keeps her business running, or safety pins for last-minute fixes; this small yet powerful companion keeps her day seamless. We wanted to be a part of their daily story and acknowledge their hustle with this kit."

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## Daymond John makes Headline Konnections '26 – Powered by Kornit

Konnections '26 – powered by Kornit, is proud to announce that entrepreneur, investor, and branding expert Daymond John will serve as the event's keynote speaker. Konnections '26 is set to take place April 12–14, 2026, in Hollywood, Florida at The Diplomat Beach Resort.

As the founder of FUBU, John helped shape the modern apparel industry, transforming a grassroots streetwear movement into a multi-billion-dollar global brand. His work helped lay the foundation for today's creator-driven, on-demand, and print-powered economy. From his role as an investor on Shark Tank to leading The Shark Group, John's career is rooted in building scalable brands, finding trends early, and turning creative ideas into commercial success.

At Konnections '26, John will deliver a dynamic keynote focused on growing apparel businesses, navigating print-on-demand and on-demand models, and building brands that resonate with today's customers in fast-moving markets.

"We are looking forward to meeting with industry leaders at Konnections 2026. It's a great opportunity to learn about the latest trends and technologies and to see where the on-demand market is heading. It's events like these that help us stay at the forefront of the industry," said Shawn Sckoropad, Co-Founder, Printeez, Inc.

### About Konnections '26

Konnections 2026 – powered by Kornit, is the premier annual gathering for leaders, innovators, and entrepreneurs in the print, apparel, and on-demand industries. The event brings together brand builders, creators, suppliers, and technology partners for three days of strategy, insights, and networking. Attendees can expect keynote sessions from industry trailblazers, hands-on workshops, product showcases, and exclusive networking experiences designed to spark collaboration and accelerate growth.

Registration is now open. To learn more and secure your spot, visit [www.konnections2026.com](http://www.konnections2026.com).

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## From Tariffs to Tensions : how global shocks are posing constraints on India's Textile Manufacturing

India's textile manufacturing sector is entering a phase of heightened uncertainty as global trade disruptions and geopolitical tensions converge, creating a dual strain on both demand and cost structures.

Tariffs in key export markets, particularly the US, have begun to weigh on order flows, with exporters reporting softer demand and increased caution from global buyers. At the same time, evolving procurement strategies marked by smaller, more frequent orders are fragmenting demand and adding complexity to production planning.

Parallely, geopolitical tensions are intensifying cost pressures across the value chain. Disruptions in critical shipping routes and rising fuel prices are pushing up freight, insurance, and input costs, particularly for synthetic fibres such as polyester and nylon. For manufacturers already operating on thin margins, this is leading to a visible squeeze on profitability.

"India's textile manufacturing sector is facing a convergence of global shocks, with tariffs weakening demand in key export markets while geopolitical tensions continue to push up input and logistics costs," said Abhishek Sharma, Founder & CEO of Fashinza. "This dual pressure is compressing both order volumes and margins, making planning increasingly complex for manufacturers."

Beyond immediate pressures, structural shifts are also underway. The China+1 strategy is encouraging global brands to diversify sourcing, positioning India as a key alternative. However, the domestic ecosystem is still evolving to match the speed, flexibility, and scale required by global buyers, particularly in a demand environment that is becoming increasingly dynamic.

Additionally, extended payment cycles and rising working capital requirements are adding to liquidity stress, especially for MSME manufacturers who form the backbone of the sector. The combined effect of demand uncertainty, cost inflation, and supply chain volatility is forcing companies to rethink traditional operating models.



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Yet, amid the disruption, there are early signs of transformation. The current environment is accelerating a shift toward more agile, tech-enabled manufacturing, where data-driven production, faster turnaround times, and supply chain visibility are becoming critical differentiators.

As global uncertainties persist, India's textile sector finds itself at a crucial inflection point balancing short-term headwinds with the need to build long-term resilience and competitiveness in an increasingly volatile global landscape.

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### Brief profile of BEA Electronics

BEA Electronics is a Kaushik Group of Industries, manufacturer of fancy yarn making attachments, Carbon brushes, Electromagnetic Clutches & Brakes. Industrial Castor Wheels. Basically we are Electronics & Mechanical engineering service provider. We are serving textile industry for more than four decades. Special consultancy services are available regarding automation in textile machine.

#### Different aspect of BEA Electronics

BEA Electronics is having industry owned 3000 Sq. Meter factory at Gwalion. M.P.

#### Our Mission and Belief

Mission of our company is to meet out the demands and expectations of our valued customers, vendors and employees by adopting ethical business practices and using of our all available resources.

Core beliefs of company are Honesty, Discipline and Criticism. Honesty brings transparency in our business and develops trust in each other. It directly transforms into our business growth and strong relationship. Discipline helps us to manage business easy and improve efficiency. Criticism brings us closer to perfection.

#### Our Strength

Our Core Strength is motivated manpower, vendors and suppliers. We always recognizes their sincere efforts and hard work to encourage them. Our driving forces are customers who trust and believe in our products and services. It inspires us to move forward.

#### Our Commitment

Company is committed to deliver best of available technology, products and services to the customers. We are also committed to grow and fulfill the expectations of our vendors & workforce.

#### Service

- ▶ Free servicing visits of our Technicians, under warranty period.
- ▶ Up-gradation - our research and development department is always improving performance including new technology to our unit to cope with the new fashion world.
- ▶ Free training to the buyer's technician.

#### Relationship

##### Customer

BEA Electronics is a customer focused organization whose policies are framed out in benefit of our users. Our existence is due to customers hence we listen their problems and suggestions carefully. Company is providing continuous technical training to the employees to improve customer relationship. Our goal is to achieve 100% customer satisfaction. We welcome to submit your feedback about our products and services always. This will help/support us to improve and meet out your needs.

##### Vendor

Good vendor and suppliers are our strength. BEA Electronics is continuously looking out such companies and people who are ready to accept challenges. Company helps vendors by providing them finance, technical knowhow and knowledge to build long lasting relationship. If you are interested, please send your details now.

##### Employee

BEA Electronics is an equal opportunity employer and HR policies of company are framed out in benefits of employees. Company is continuously organizing training programs to enhance skills and knowledge of employees. It helps them to perform well resulted in job satisfaction.

##### Society

BEA Electronics is a socially responsible company and offering employment without any discrimination of gender, race, community and caste. Company is also giving employment to physically handicapped people and woman to empower them. Company is also taking care to save environment and natural resources by making environment friendly policies and developing good habits in employees. To send your comments and suggestions please feel free to contact us.

**For further information, please contact:**

**BEA Electronics**

**Mr. Purushottam Kaushik - Sole Proprietor**

**Mobile: 9229103379, 9301101572**

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**skaushik@fancytex.com**

**12B Industrial Estate, Birla Nagar**

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## TEXTILE EVENTS

### **FESPA hosts Wrapfest 2026 to be held from 19-22 May at Fira de Barcelona, Spain**

**FESPA confirms exhibitor line-up for wrapfest as it prepares to host the event in Barcelona for the first time**

WrapFest 2026, FESPA's dedicated event for vehicle wrapping and surface detailing, will return from 19-22 May 2026 – this time, for the first time, at the Fira de Barcelona, Spain. After two successful UK editions in 2023 and 2024, WrapFest will run as part FESPA 2026, which comprises co-located events: Global Print Expo, European Sign Expo, Personalisation Experience and the brand-new Corrugated and Textile.

The more than 2,000 square metre exhibition space (in Hall 2) will highlight global brands and specialist manufacturers operating in films, adhesives, laminates and surface wrapping solutions.

Confirmed exhibitors include major materials and film suppliers, such as: 3M, American Biltrite, Antalis International, APA Spa, Arlon Graphics, HEXIS, Lintec Europe, LX Hausys, Neschen Coating, Quantica, SIR Visual and Space Tailor.

Visitors will also have the opportunity to see the newest printing and cutting technologies, in action, from brands including : Epson, HP, Mimaki, Mutoh and Roland. These exhibitors will highlight how their technologies support faster turnaround times and the finishing touches in wrapping applications.

In addition, visitors will be able to explore a multitude of self-adhesive films, decorative surfaces and functional materials from brands including: BP-TECK New Material, Conergies (Zhejiang) New Material, Goldesign Industry, Graphictac Film, Superficies y Recubrimientos, Carlas Industrial and Zhen Chang Adhesive.

In addition, WrapFest 2026 will welcome brands that manufacture technology for application quality, productivity and finishing, such as : CWT Worktools, Robart International, Rolls Roller and SD-Medias Distribution.

In-line with FESPA's knowledge-sharing and inspiring pillars, visitors to WrapFest can also attend a series of live wrapping demonstrations with industry experts, as well a dedicated

'WrapTalks' conference programme. They will also get to experience the high-energy World Wrap Masters (Europe and Series Final) competitions.

Duncan MacOwan, Head of Marketing and events at FESPA, comments : "WrapFest is an essential meeting point for the wrapping community and we can't wait to bring our most extensive exhibitor line-up to them this year. By running the event in Barcelona, we're able to showcase innovation and trends across wrapping materials and application tools, while connecting our visitors to the wider speciality print landscape.

"I can't wait to see members of the FESPA community learn, network and discovering new solutions that can benefit their business, at this year's show!"

With a single ticket to WrapFest, visitors have access to all co-located FESPA 2026 events – and this will give them the opportunity to explore adjacent technologies, applications and markets across print, signage, personalisation, textiles and corrugated packaging. In addition, visitors will be able to join, free of charge, the two other FESPA 2026 conferences on: 'Corrugated' and 'Personalisation and Textile'.

All members of a FESPA national Association or FESPA Direct can gain free access to Personalisation Experience and the co-located events. Non-members can purchase super early bird tickets for €30 until 23 March, using the code WPFM601.

#### **About FESPA**

Founded in 1962, FESPA is a global federation of Associations for the screen printing, digital printing and textile printing community. FESPA's dual aim is to promote screen printing and digital imaging and to share knowledge about screen and digital printing with its members across the world, helping them to grow their businesses and learn about the latest developments in their fast-growing industries.

#### **FESPA Profit for Purpose**

Profit for Purpose is FESPA's international reinvestment programme, which uses revenue from FESPA events to support the global speciality print community to achieve sustainable and profitable growth through four key pillars - education, inspiration, expansion and connection.

## TEXTILE EVENTS

The programme delivers high quality products and services for printers worldwide, including market research, seminars, summits, congresses, educational guides and features, in addition to supporting grassroots projects in developing markets. For more information visit, [www.fespa.com/profit-for-purpose](http://www.fespa.com/profit-for-purpose).

**Forthcoming FESPA events include:**

- FESPA Global Print Expo 2026, 19 – 22 May 2026, Fira de Barcelona, Spain
- European Sign Expo 2026, 19 – 22 May 2026, Fira de Barcelona, Spain
- Personalisation Experience 2026, 19 – 22 May 2026, Fira de Barcelona, Spain
- WrapFest 2026, 19-22 May 2026, Fira de Barcelona, Spain
- Corrugated 2026, 19 – 22 May 2026, Fira de Barcelona, Spain
- Textile 2026, 19 – 22 May 2026, Fira de Barcelona, Spain

**For further information, please contact:**

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**Website: [www.fespa.com](http://www.fespa.com)**

**visit: <https://www.wrap-fest.com>** ☐

## India ITME Society welcomes all stakeholder to be at INDIA ITME 2026, from 4-9 December

One behalf of ITME Society

We are pleased to introduce ourselves as India ITME Society (India International Textile Machinery Exhibitions Society), the apex industry body organizing India's largest and most prestigious textile engineering exhibition since 1980. Our vision is to strengthen India's position as a key destination for textile machinery, technology, and engineering, connecting businesses across the globe.

We are excited to invite your esteemed company to participate as an exhibitor at 12th Edition of India ITME 2026, scheduled from 04th to 9th December 2026 at India Exposition Mart Ltd (IEM), Greater Noida. This mega event is expected to host more than 1800 exhibitors in 20 Chapters and a footfall of over 1,50,000 visitors in the 6-day event period.

This is a unique opportunity to:

- Meet serious buyers & decision-makers from India and 80+ countries
- Showcase your latest machinery, technology, and solutions
- Expand your market reach in India's growing textile & apparel sector
- Build partnerships and explore new business opportunities
- Benefit from extensive event promotion, B2B meetings, and networking sessions

Your participation in India ITME 2026 will bring immense opportunity to your business by adding global networking and new customer leads.

To know more about us and for detailed information, please click on the given link :

The application process is online, please find the link herewith <https://india-itme.com/#/ITME2026> to kindly fill the form online.

**For further information, please contact:**

**Mr. Nitin Pachpande: +91 8010823774**

**[projects@india-itme.com](mailto:projects@india-itme.com), [itme@india-itme.com](mailto:itme@india-itme.com)**

**Mr. Tushar A. Jayawant: +91 9820507570**

**[operations@india-itme.com](mailto:operations@india-itme.com)**

**<https://corporate.india-itme.com/itme2026/>** ☐

## Intex Bangladesh

18-20 June 2026

**Connect With the Global Textile Supply Chain**

Step into new business opportunities at Intex Bangladesh, South Asia's leading international textile sourcing show. Intex Bangladesh has established itself as a trusted B2B platform connecting global textile manufacturers, suppliers, and brands to Bangladesh and neighboring markets. The country's garment industry is not an emerging story - it is a 2nd mature, large-scale, export-driven engine that produces for the world.



**What Awaits You at Intex Bangladesh 2026****Premier Gateway for the Textile & RMG Industry**

Connect with manufacturers, exporters, global brands, sourcing offices, importers, and agents from across South Asia and beyond.

**Unmatched Sourcing Opportunities**

Discover a diverse spectrum of functional & sustainable fibers, yarns, fabrics, trims, accessories, dyes, chemicals, and cutting-edge software solutions—all under one roof.

**High-Value B2B Engagements**

Forge strategic partnerships through curated buyer-seller meetings and direct interactions with key decisionmakers.

**Knowledge & Networking Hub**

Gain insights from interactive business forums, seminar series, and panel discussions, followed by exclusive networking receptions designed to spark collaboration.

**Driving Innovation & Sustainability**

Explore the latest trends, technologies, and eco-friendly solutions shaping the future of textiles and apparel.

**Major Exhibits**

- Fibres
- Yarns
- Apparel Fabrics
- Denim Fabrics
- Clothing Accessories
- Embroidery & Trims
- Textile Studios
- Fashion Trends

**Exhibiting Countries**

- Bangladesh
- China
- India
- Japan
- Korea
- Thailand and more

**For further information, please contact:**

**Worldex India Exhibition & Promotion Pvt. Ltd.**

**Zahir Merchant**

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## **India's Finest Print Works Evaluated: NAEP & GPEA 2026 Jury ends successfully Judging Process**

The judging process for the prestigious National Awards for Excellence in Printing (NAEP) & Global Print Excellence Awards (GPEA) 2026 has been successfully completed at the CIDCO Exhibition Centre, Vashi, Navi Mumbai, bringing together some of the most respected experts from the printing and packaging industry to evaluate outstanding print works from across India and the global print community.

Organised by the All India Federation of Master Printers (AIFMP) in association with Reenvision Events Pvt Ltd, the NAEP & GPEA Awards have consistently served as a benchmark for excellence in the printing industry, recognising innovation, craftsmanship, and technological advancement.

This year witnessed an impressive response, with a diverse range of entries submitted across multiple categories. The submissions reflected the remarkable creativity, technical expertise, and evolving capabilities of printers from across India and international markets.

The judging process followed a structured and transparent multi-stage evaluation system. During the initial stage, the distinguished jury carefully reviewed the physical samples and shortlisted the most deserving entries. In the subsequent round, the shortlisted works were individually evaluated using a detailed scoring framework.

Each entry was assessed on key parameters including degree of creativity, complexity of execution, visual appeal, tactile feel, innovation, and overall print quality, ensuring a fair and comprehensive evaluation of every submission.

With the quality of submissions reaching exceptional standards this year, the jury members observed intense competition across categories, making the selection process both challenging and inspiring. The entries showcased advancements in design, printing technology, finishing techniques, and sustainable printing practices, reflecting the dynamic evolution of the print industry.

## TEXTILE EVENTS

The winners of the NAEP & GPEA Awards 2026 will be announced and honoured during a grand Gala Awards Ceremony on April 28, 2026, to be held at the Chennai Trade Centre.

The awards ceremony will take place alongside Bharat Print Expo 2026, South India's largest printing exhibition, scheduled from April 27 to April 29, 2026, at the Chennai Trade Centre. The event is expected to bring together industry leaders, innovators, printers, converters, and technology providers from across India and around the world, creating a vibrant platform for networking, innovation, and celebration of print excellence.

The NAEP & GPEA Awards continue to inspire printers, converters, designers, and brand owners to push the boundaries of creativity, quality, and technological innovation, reinforcing the enduring power of print as a medium of communication and craftsmanship.

**For further information, please contact:**  
**info@reenvision.in.**



### InMac

**5-6-7 August 2026**

**BMICH, Colombo, Sri Lanka**

InMac is where meaningful conversations turn into measurable progress. It brings together trusted global technology brands and forward-looking manufacturers in one focused environment built for real engagement. Here, innovations are not just displayed – they are explained, evaluated, and discussed with decision-makers who are actively planning their next phase of growth. By gathering leading machinery providers under one roof, InMac creates a practical marketplace for smarter, more efficient manufacturing.

#### Exhibitors Experience at InMac 2025

"We are happy with the turnout of customers and industry professionals from all over the country. We are also planning to participate next year."

#### Indradatta Dharmawardane

Chairman, Managing Director/ CEO  
Imperial International  
Sri Lanka

"At InMac, we are getting a good response, and we are looking forward to participating next year as well."

#### Kshemal Defonseka

General Manager  
LAPP Trading (Ceylon)  
Sri Lanka

"InMac has been a great opportunity for us to showcase our products, and it has been a wonderful show. We look forward to exhibiting again next year."

#### Jude Anthony

R&D Manager  
Standard Holdings  
Sri Lanka

"It has been our first experience with Intex, and we have received good leads and inquiries. We look forward to a brighter future with this. Thank you, Intex."

#### Saurabh Gupta

Chief of Marketing  
Aad Tech Environ  
India

### Exhibitors Speak! - Watch the Video

#### Major Exhibits

- Advanced Knitting, Weaving & Sewing Machinery, Spare Parts & Accessories
- Digital printing, embroidery & finishing solutions
- Fabric dyeing, inspection & testing equipment
- Robotics, AI Integration and Automation Products & Solutions
- CAD-CAM, MES, PLM, ERP & AI-based software
- Sustainability, Compliance and Certifications, Renewable Energy Products & Solutions

**For further information, please contact:**

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## **ITM 2026 will assemble the Global Textile Technologies Industry in Istanbul**

ITM 2026 International Textile Machinery Exhibition, considered one of the most important organizations in the field of textile technologies in the world, is preparing to bring together all stakeholders of the industry in Istanbul between June 9–13, 2026. The exhibition, where advanced technology machines and innovative solutions for every stage of the textile production chain will be showcased, will offer an important global meeting platform for manufacturers, technology providers, investors, and professional visitors.

Leading textile machinery manufacturers and industry professionals from around the world will come together in Istanbul within the scope of ITM 2026 to share the latest technologies and production solutions with the industry. Covering all stages of textile production from spinning to weaving, knitting to dyeing and finishing systems, the exhibition will bring together the latest innovations in textile technologies and the production trends of the future with visitors.

With its strategic location, strong textile production infrastructure, and advanced logistics networks, Istanbul will once again become the focal point of the global textile technologies sector thanks to ITM 2026. The exhibition, which is expected to host thousands of industry representatives from different regions of the world, particularly Europe, Asia, the Americas, the Middle East, and Africa, will make a significant contribution to the development of international trade and the establishment of new collaborations.

### **Global Participation and International Interest**

ITM 2026 attracts attention on a global scale with its strong exhibitor and visitor profile. Leading textile machinery manufacturers, technology providers, investors, and purchasing professionals from around the world will meet in Istanbul within the scope of the exhibition. This broad participation turns ITM 2026 from being merely a trade fair organization into one of the most important international trade platforms of the textile industry.

The visa facilitation provided by Türkiye to many countries and Istanbul's strong air transportation connections significantly increase

the international accessibility of the exhibition. Thanks to these advantages, industry professionals from different geographies will easily reach ITM 2026 and have the opportunity to establish new business connections and develop collaborations.

Industry professionals from all systems of textile production—from spinning to weaving, knitting to dyeing and finishing, from digital textile printing to garment technologies—will take part in ITM 2026 both as exhibitors and visitors. This wide sector representation will enable the exhibition to create a strong platform for knowledge sharing, technology transfer, and commercial collaborations.

### **Solutions Shaping the Future of Textile Technologies**

ITM 2026 will bring together the world's leading companies that develop innovative solutions in textile technologies under the same roof. A wide range of technologies will be exhibited at the fair, from yarn production technologies to weaving and knitting machines, from dyeing and finishing systems to digital textile printing technologies.

Participating companies will introduce visitors to production systems that provide high efficiency, machines that offer energy savings, automation and digitalization-focused solutions, and sustainable production technologies. In addition, innovations shaping the future of the sector—such as artificial intelligence-supported production systems, smart factory applications, data-driven production management, and environmentally friendly production technologies—will be among the highlights of the exhibition.

Beyond being a fair where new technologies are showcased, ITM 2026 will be a global meeting point where new investments are planned, strategic collaborations are established, and ideas shaping the future of the textile industry are shared. This major organization to be held in Istanbul will bring together the most important actors of the textile technologies world and shape the future of the sector.

**For further information, please contact:**

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# GS CAN

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Manufacturers and Exporters of HDPE spinning cans  
along with its accessories for the jute and textile industry



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# A LEGACY OF CONSISTENT PERFORMANCE

**Sakthi**  
TOP ROLLERS

## TECHNICAL EXPERTISE MATTERS

The new generation preparatory machines in spinning industry demands more precision to yield maximum productivity with high quality yarn. Latest development of Draw frame toproller from Reiter and Lakshmi with non-greasing type to serve the said purpose.

'Sakthi' is the only manufacturer can supply the same in the replacement market. In addition modified greasing type also can be supplied at par quality which can be labour friendly and easy handling

### Shells & End Bushes

Manufactured by CNC m/c ensuring high precision tolerance, our Top Rollers are made of High Grade Alloy Steel as per OEM recommendations.

### End Bush Bearing and Grease

**Bearings:** To extend life and minimum wear and tear, Sakthi End bushes are being fitted with INA-Germany NTN, IKO-Japan needle/cage bearings.

**Grease:** Periodic lubrication is recommended for extended life of the bearings. Sakthi End bushes are packed with high speed grease during delivery.

### Synthetic Rubber Cots

**Imported Cots:** Imported Twin layer, Press Fit cots like Accotex, Daytex, Berkal & Yamuchi etc., can be supplied with Sakthi Top roller duly mounted.

**Indigenous Cots:** Indian Glue on, Twin Layer, Press fit cots can be supplied with our Top roller duly mounted. Periodic buffing is recommended based on the shore hardness of the cots, count of cotton and basic raw material of the yarn.

**Mounting and Buffing:** Inhouse mounting facility will ensure the accurate fitment of all kind of cots.



'Sakthi' Top roller quality is taken care in every stage of operations up to final assy by QC team. As per customer choice any make and kind of cots can be duly mounted and supplied with our top roller.

## SAKTHI TEXTILE ENGINEERS

### Factory & Admin Office

207-A, Bharathiyar Road, Samathottam, Ganapathy,  
Coimbatore - 641 006, Tamilnadu, India.

Tel : +91 422 4275593, Mobile : +91 95009 90590, Office : +91 95009 90595,  
Sales : +91 95008 50590, Email : sales@sakthitop.com / sundar@sakthitop.com,  
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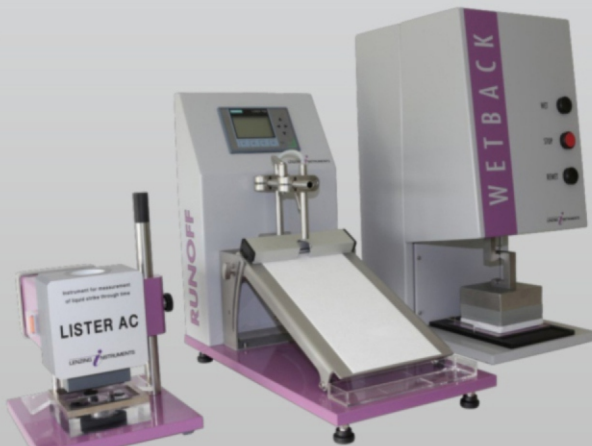
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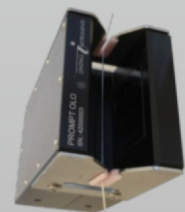
Draw tension



Nonwovens testing



Thermal shrinkage



Online monitoring



# Thank You

## Exhibitors & Visitors

for  
once again making



*Largest Expo for Textile Machinery, Accessories & Spares*

a grand and  
a memorable reunion  
for the entire textile value chain.



**The Organising Committee**  
**SIMA Textfair 2026**



**THE SOUTHERN INDIA MILLS' ASSOCIATION**

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 (+91) 99524 12329

# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



View of the stall of Lakshmi Machine Works Ltd at TEXFAIR 2026, Coimbatore.



(From right) Mr. Diven Dembla, Managing Director & Mr. Saravanan V, President – Business Development of Precision Rubber Industries Pvt. Ltd. in their stall at TEXFAIR 2026, Coimbatore.



View of the stall of Dynamic Autolooms India Pvt Ltd at TEXFAIR 2026, Coimbatore.



(From left) Ms. Vrunda Bapat & Mr. Bapat of Unitech Texmech Pvt. Ltd. at their stall at TEXFAIR 2026, Coimbatore



(From left) Mr. Shrey Trivedi, CEO of Vrajlal Hirjibhai Trivedi & Sons in their stall at TEXFAIR 2026, Coimbatore.



Mr. Jay Panchal of Dhara Engineering Works in their stall at TEXFAIR 2026, Coimbatore.



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



Mr. V. Srinivasan, CEO of Premier Evolvics Pvt. Ltd. in its stall at TEXFAIR 2026, Coimbatore.



(From left) Mr. R. Madhu, CEO of SRM Group, Mr. K. S. Suresh, Managing Partner, SRM & Mr. M. Dhaneeswar, Director, Sakthi Associates in their stall at TEXFAIR 2026, Coimbatore.



Mr. Surendra Sharma CEO of Jumac Manufacturing Pvt. Ltd. in their stall at TEXFAIR 2026, Coimbatore.



(From left) Mr. Jagadesh TS, General Manager-Marketing and Mr. Sekhar R. R & D of Lakshmi Precision Technologies Ltd. in their stall at TEXFAIR 2026, Coimbatore.



Mr. Nimesh Tibrewala, CEO of Global Texparts Company in its stall at TEXFAIR 2026, Coimbatore.



(From left second) Mr. K. N. Venkatasubramanian & others of Chiven Spinning in their stall at TEXFAIR 2026, Coimbatore.



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



(Center) Mr. JM Balaji, Vice President of Lakshmi Ring Travellers (Coimbatore) Pvt. Ltd. in its stall at Texfair 2026, Coimbatore



(From Right) Mr. Rajendra Singh Pawar, Senior Manager Maintenance, GTN Industries Ltd., Nagpur, Mr. S. Malligarjunan, Managing Director of Textech Industries Pvt. Ltd. (India), Mr. Balwant Dayal, Suryaamba Industries Ltd., Nagpur and Mr. Saurabh Banga of Vijaytex Corporation in the stall of Textech Industries Pvt. Ltd. (India) at Texfair 2026, Coimbatore



View of the stall of Pinter Group at Texfair 2026, Coimbatore



Mr. G. Radhakrishnan, Managing Director of Skaat Machine Works India Pvt. Ltd. in its stall at Texfair 2026, Coimbatore



(From Right) Mr. PN Santhanakrishnen, Director & Mr. PM Ayaaswamy, Director of Aspire Grand Excel Automation in their stall in Texfair 2026, Coimbatore



(From Right) Mr. Anand Ramanathan, Dy. General Manager-Sales & Mktg. & Mr. Abinash Kore, Manager of Inspiron Engineering Pvt. Ltd. in their stall in Texfair 2026, Coimbatore.



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



View of the stall of Simta Group of Companies at Texfair 2026, Coimbatore



View of the stall of Autotex Private Limited at Texfair 2026, Coimbatore.



(From Left) Mr. A. Sundararajan, Managing Partner & Mr. J. Akbar, Sales Manager of Sakthi Textile Engineers in their stall at Texfair 2026, Coimbatore.



(From Left) Mr. Sundaram TS, Jt. Managing Director & Mr. A Thankavel, Managing Director of Super Machine Works Private Limited in their stall at Texfair 2026, Coimbatore.



(From Left) Mr. K. Subramaniam, MD, Statex, Mr. Thiyaagu, Vice President, Mr. Sakthivel, Manager EDP and Mr. Jai Surya, Manager Digital Marketing of Statex Group of Companies in their stall at Texfair 2026, Coimbatore.



Mr. S. Jaya Prakash, CEO of Vetri Engineers in its stall at Texfair 2026, Coimbatore.



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



View of the stall of Rimtex Industries at Texfair 2026, Coimbatore.



(From Left) Mr. Sriram, Mr. Vishnu - Service Engineer, Mr. Senthil Kumar, R & D Manager, Mr. Ramani - ED, Mr. R. Balakrishnan, MD, Mr. Harish - Sales Officer, Mr. Arunkumar- Sales and Service Engineer and Mr. Ramanathan- Marketing Manager of Tecchno Group in their stall at Texfair 2026, Coimbatore.



Mr. Bhavesh Patel, Director of OM Corporation in its stall at Texfair 2026, Coimbatore.



(From Left) Mr. Vaidyanathan, Textile Consultant, Mr. Shiva Shankar Reddy, Business Head - Textiles, JK Fenner (INDIA) Limited and Mr. Karthikeyan, Managing Director of Cleentex in the stall of Cleentex at Texfair 2026, Coimbatore



(From Left) Mr. A. Senthil Raja, Joint Managing Director, Mr. S. Arunachalam, Managing Director and Mr. N. Ravikumar, VP Business Operations of Ariser Engineering Private Limited in their stall at Texfair 2026, Coimbatore.



(From Left) Ms. Subhalakshmi G, Sales Coordinator, Ms. Niranjana D, Commercial Director - M/s. Srinivasa Textile Equipment Company, Mr. Prem Kumar, DY. Manager, Mr. Gopal Godandaraman, Managing Director - M/s. Srinivasa Textile Equipment Company, Mr. Guru Venkatesh G, Managing Director Srinivasa Texspares, Mr. Dhasaratharaman, Managing Director - M/s. Srinivasa Textile Equipment Company and Mr. Mariappan, Production Head in the stall of Srinivasa TexSpares at Texfair 2026, Coimbatore.



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



(From left) Mr. S. Baskaran, Mr. C D Pani, Mr. Bhuvaneshwaran, Mr. Arularasu and Mr. Satish Kumar from MAG Solvics Pvt. Ltd in their stall at Texfair 2026, Coimbatore.



(From Left) Mr. Kushal Shah, Mr. Rohit Somani and Mr. Sachin Gaikwad of Shreetex Corporation in their stall at Texfair 2026, Coimbatore



(From Right) Mr. L.R. Nishad, V.P. Marketing & Service and Mr. A.D. Mahakulkar, G.M. Marketing & Service of Basant Fibertek Pvt. Ltd. in its stall at Texfair 2026, Coimbatore.



(From Left) Mr. V. Benny Jerald, Managing Director and Mr. Balasubramaniam, Managing Director of Mohler Machine Works Pvt. Ltd. in its stall at Texfair 2026, Coimbatore.



(From Left) Mrs. Umasriram, KCI, Mr. Somasundaram, Sales Manager, Mr. K. Muthuvijayan, Managing Director, Sri Kumaran Textile Systems Mr. Nagarajan, GM of Munipachiamman and Munipachiappan Mills and Mr. Rajkumar, Sales Engineer in the stall of Sri Kumaran Textile Systems at Texfair 2026, Coimbatore.



View of the stall of Mangal Singh Brothers Pvt. Ltd. at Texfair 2026, Coimbatore



# IMAGES OF LEADING TEXTILE STAKEHOLDERS PARTICIPATED AT TEXFAIR IN COIMBATORE, TAMILNADU



Mr. Sumitt Gajjar - Director of Shreeji Tech Industries in its stall at Texfair 2026, Coimbatore.



View of the stall of LLS Automation at Texfair 2026, Coimbatore



View of the stall of A.K. Industries at Texfair 2026, Coimbatore



Mr. Shripathy Palaniswamy of New India Brush Industries in its stall at Texfair 2026, Coimbatore.



(From Left) Mrs. P. Saraswathy, Mr. T. Pandian, Proprietor & Mrs. J.P. Rajeswari from The Best Textile Engineers in their stall at Texfair 2026, Coimbatore



Mr. Sunil D. Gohil & his associates in the stall of Jayant Metals at Texfair 2026, Coimbatore



Dhartex Machinery India Pvt. Ltd. is a reputed name in the Indian and international textile machinery market. The company specializes in the **design, manufacturing, and commissioning** of high-performance equipment for **wet finishing, dyeing, drying, squeezing, and fully automated size cooking solutions.**

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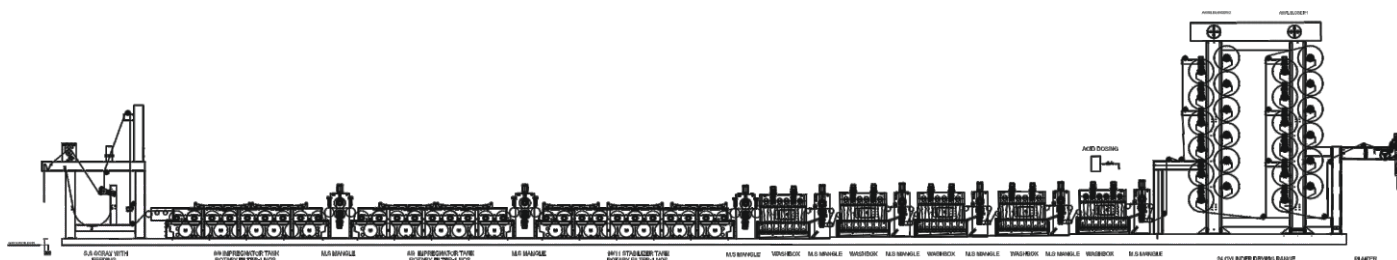
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Ahmedabad - 382445 Gujarat India

## MANUFACTURING UNIT

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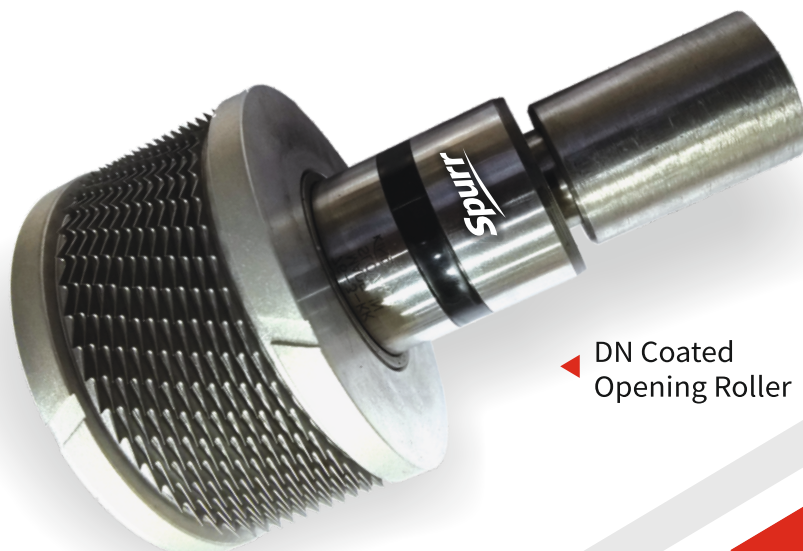
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## Variete Detex, a modern unit equipped with world class knitting & Textile Processing system

### To Know about Variete Detex

- Pioneering Textile Manufacturing
- Variete Detex is a Kolkata-based textile factory offering advanced knitting technology through our world-class German machines. We specialize in producing quality warp and circular knitted textiles for various applications including home textiles and clothing.
- Company Values.
- Quality Without Compromise.
- We are committed to delivering consistent, high-quality knitted fabrics through precise process control, advanced machinery, and rigorous inspection at every stage of production.
- Customer-Focused Manufacturing.
- We are closely in touch with our customers to develop fabrics tailored to specific performance and aesthetic requirements, offering flexibility, responsiveness, and dependable execution.
- Integrity & Reliability.
- We believe in transparent business practices, clear communication, and honoring commitments—building long-term relationships based on trust and reliability.
- Responsible Operations.
- We strive for efficient, safe, and environmentally conscious manufacturing through optimized processes and continuous improvement.
- Suitable for polyester DTY / FDY / Spandex/ Nylon

### Current Machine Setup

Currently VarieteDetex deals in following machines incorporating world class German technology. These machines boost up productivity of garment industry to large extent. We mentioned below such machines with necessary features.

- Warp Knitting Machines: Karl Mayer (Tricot / HKS type)
- Circular Knitting Machines: Dia 34 inch, GG 28
- Feeders: 72 / 108 / 148
- Suitable for Polyester DTY Fabrics



### Indian Market Opportunity

Now India is a fastest growing economy in the world. Textile industry plays a vital role to propel the current growth rate above 7%. Textile industry is the second largest job provider after agriculture in India. India has become a leading textile product exporting country in the world. Textile product contribute to large extent to India's foreign earnings. Because of its growing importance in Indian economy textile industry is expanding rapidly across India. Present Indian government highly focused on development of textile industry adopting various measures in the budget 2026. So, we can say there is immense business opportunity around the textile industry in India. In align with expanding textile business the demand for textile products will be growing on. The growing demand for textile products are driven by:

- Sportswear
- School uniforms
- Athleisure
- Shoes & bags
- Home textiles
- Surat is the largest polyester knit market

**Variete Detex, a modern unit equipped with world class knitting & Textile Processing system**

### Top Consumed Polyester Knit Fabrics

- Single Jersey
- Micro Interlock
- Drop Needle Interlock
- Polyester Rib
- Polyester Tricot



### Warp Knitting Market Products

- Tricot lining fabric
- Brushed tricot
- Mesh / Net fabric
- Air mesh (sandwich fabric)
- Warp knit velour

### Fabric Example: Polyester Single Jersey

- Yarn: 75D / 100D / 150D DTY
- GSM: 120–160
- Use: T-shirts & sportswear
- High volume garment market

### Fabric Example: Micro Interlock

- Yarn: 75D / 100D
- GSM: 160–190
- Use: premium sportswear & uniforms

### Fabric Example: Brushed Tricot

- Yarn: 100D / 150D
- GSM: 120–160
- Use: winter garments, tracksuits
- High demand in Surat

### Fabric Example: Mesh Fabric

- Yarn: 75D / 100D
- GSM: 80–120
- Use: sports jerseys, bags, shoes

### Recommended Focus Products

- 1. Polyester Single Jersey
- 2. Drop Needle Interlock
- 3. Polyester Tricot 120 GSM
- 4. Single Side Brushed Tricot
- 5. Polyester Mesh

### Production Strategy

- Use circular machines for garment fabrics
- Use warp knitting for lining and mesh
- Target Surat garment and export markets

### Conclusion

- Combination of warp + circular knitting gives strong market flexibility
- Focus on high-volume polyester fabrics
- Potential to supply garments, shoes, and home textile sectors

### ABOUT US

#### Pioneering Textile Manufacturing

Variete Detex is a Kolkata-based textile factory offering advanced knitting technology through our world-class German machines suitable for man made fibres such as polyester DTY / FDY / Spandex/ Nylon.

We specialize in producing quality warp and circular knitted textiles for various applications including home textiles and clothing.

#### COMPANY VALUES

##### Quality Without Compromise

We are committed to delivering consistent, high-quality knitted fabrics through precise process control, advanced machinery, and rigorous inspection at every stage of production.

##### Customer-Focused Manufacturing

We partner closely with our customers to develop fabrics tailored to specific performance and aesthetic requirements, offering flexibility, responsiveness, and dependable execution.

##### Integrity & reliability

We believe in transparent business practices, clear communication, and honoring commitments—building long-term relationships based on trust and reliability.



### Responsible Operations

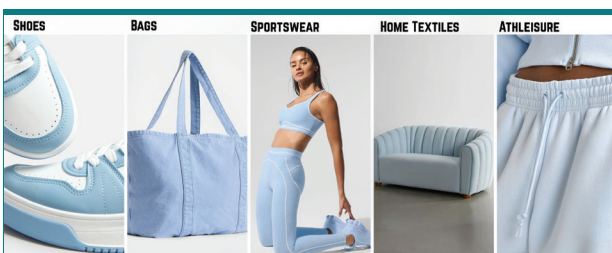
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### CURRENT MACHINE SETUP

- Warp Knitting Machines: Karl Mayer (Tricot / HKS type)
- Circular Knitting Machines: Dia 34 inch, GG 28
- Feeders: 72 / 108 / 148
- Suitable for Polyester DTY Fabrics



### INDIAN MARKET OPPORTUNITY



### MOST CONSUMED POLYESTER KNIT FABRICS

- Single Jersey
- Micro Interlock

- Drop Needle Interlock
- Polyester Rib
- Polyester Tricot

### FOCUS PRODUCTS

- Polyester Single Jersey
- Drop Needle Interlock
- Polyester Tricot 120 GSM
- Single Side Brushed Tricot
- Polyester Mesh

### POLYESTER SINGLE JERSEY

- Yarn: 75D / 100D / 150D DTY
- GSM: 120-160
- Use: T-shirts & sportswear
- High volume garment market

### MICRO INTERLOCK

- Yarn: 75D / 100D
- GSM: 160-190
- Use: premium sportswear & uniforms

### BRUSHED TRICOT

- Yarn: 100D / 150D
- GSM: 120-160
- Use: winter garments, tracksuits
- High demand in Surat

### MESH FABRIC

- Yarn: 75D / 100D
- GSM: 80-120
- Use: sports jerseys, bags, shoes

**For further information, please contact :**  
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**Modern Unit Of Knitting & Textile Processing**

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## Barmag

### Barmag: DTY of high quality for the future of fancy yarns

Fancy yarns continue to gain importance in the textile market: Whether in fashion, home textiles or the automotive industry - the trend towards individuality is fueling the demand for textured, haptically differentiated and at the same time comfortable yarns.

Manufacturers are faced with the task of producing complex effect structures in a precise, reproducible and energy-efficient manner. As a technology leader, Barmag offers texturing solutions that take the production of high-quality fancy yarns to the next level of performance.

### Fancy yarn technology: More variety through customized process options

Varying yarn thickness, controlled effects, special surfaces and modified textures are essential for the production of fancy yarns. Barmag's texturing machines score points here with comprehensive modular options to produce yarn types such as "Cotton-like, Linen-like, Thick & Thin, Two-Tone, Different Shrinkage or Elastane-Covered. The combination of special fancy yarn devices - including hot pin, heater clip, pre-interlacing, bypass or special godets - enables producers to achieve precise, reproducible effect structures in downstream knitting and weaving applications. The product portfolio is complemented by atmos.io, Barmag's operating system for intelligent yarn production. atmos.io provides a data-based basis for decision-making: it digitizes the entire material flow, with each package carrying its own data. This allows yarn manufacturers to intervene in production at any time.

### Stable yarn quality for demanding fancy applications

The texturing machines from Barmag are particularly impressive due to their ability to ensure consistently high yarn quality, even in complex fancy applications. The systems guarantee stable crimp characteristics, excellent uniformity and minimal effect variations. At the same time, they enable a reliable combination of POY, FDY and elastane. This performance is based on customer-focused R&D activities that specifically address current market trends - such as cotton-like and linen-like - and consistently incorporate them into the further development of technologies.

### A clear advantage in the premium segment

Reproducible high-end yarn qualities are essential, especially in the fashion, home textiles and automotive sectors: creativity alone is not enough - process reliability, efficiency and consistency are just as crucial. This is where Barmag sets standards. Thanks to the close integration of quality, flexibility, efficiency, digitalization and safety, the DTY machines offer a premium solution for the economical production of modern fancy yarns.



Fabric made from cotton-like fancy yarns with a soft, voluminous structure for textile surfaces with a natural, cotton-like appearance.

### More process stability, more added value, less risk

Manufacturers benefit from significantly more stable processes, higher added value and noticeably reduced quality and production risks - especially in sensitive premium segments. This makes the production of fancy yarns not only more creative and versatile, but also more measurable, plannable and economical.

### About Barmag

Since 2026, the Swiss Rieter Group has been operating its man-made fibers business as subsidiary under the traditional name Barmag. This includes the established product brands Barmag and Neumag. As a future-oriented company, the research and development of Barmag is driven by energy-efficiency and sustainable technologies (e-save).

Barmag is one of the leading providers of manmade fibers filament spinning systems, texturing machines, BCF systems, staple fibers systems and solutions for the production of nonwovens. Together with its range of polycondensation and extrusion systems and their key components, Barmag caters to the entire

## SCIENCE IN INDUSTRY

manufacturing process – from the monomer all the way through to the textured yarn – and supports it with customer-oriented engineering services. The product portfolio is rounded off with automation and digital solutions. In addition, Barmag offers high-precision gear metering pumps for the textile industry and other sectors, including the automotive, chemical and paint industries.

The main markets for the Barmag product portfolio are in Asia, particularly in China, India, Türkiye and the USA. Worldwide, Barmag – with round about 2,500 employees – has a presence in 120 countries with production, sales and distribution and service organizations. At the Research and Development centers in Remscheid, Neumünster (Germany), and Suzhou (China), highly qualified engineers, technologists and technicians develop innovative and technologically leading products for tomorrow's world.

For further information, please visit: [www.barmag.com](http://www.barmag.com)

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## Mimaki Europe BV

**Erreà scales up upgradation of Sportswear Printing Operations with introduction of Seven High-Performance Mimaki Digital Textile Printers**

- » The Italian sportswear manufacturer replaces a complex fleet of 28 digital printers with a streamlined, industrial Mimaki configuration
- » A combined Tiger600-1800TS and TS330-1600 setup supports high-volume production, colour consistency and customised sportswear manufacturing

Mimaki Europe, a leading manufacturer of industrial inkjet printers and cutting systems, has supported renowned Italian sportswear brand,

Erreà in upgrading its digital textile printing operations with the installation of seven high-performance Mimaki systems. The new installation includes three Tiger600-1800TS industrial dye-sublimation printers and four TS330-1600 solutions, replacing a previous fleet of 28 digital printers. This major upgrade marks a significant step forward in Erreà's production strategy, enabling the company to streamline its printing infrastructure while improving efficiency, colour consistency and overall production control.



Angelo Gandolfi, Founder and CEO of Erreà

Operating in a sportswear market increasingly driven by mass customisation, shorter lead times and high expectations for colour accuracy, Erreà undertook a comprehensive review of its printing setup to support the next phase of its industrial development. "Quality and innovation have always been a core value for Erreà since the company was founded," says Angelo Gandolfi, Founder and CEO of Erreà. "This is why we decided to take a decisive step forward and rethink our printing operations. After carefully analysing the solutions available on the market, we identified Mimaki as the partner best able to meet our needs – not only in terms of technology, but also for its ability to support us throughout this transformation."

The new Mimaki configuration enables Erreà to manage a wide variety of orders – from large volumes for clubs and federations to highly personalised, small-batch runs – within a single, streamlined production environment.

By combining the industrial productivity of the Tiger600-1800TS with the agility of the TS330-1600, Erreà can switch seamlessly between volume-driven production and customised jobs, while ensuring stable colour reproduction and consistent



print quality across machines and production sites. One TS330-1600 unit supports creativity, design development and sampling at Erreà's creative headquarters in Italy, while the remaining systems operate at the company's production facility in Romania. As a result, mass customisation is fully integrated into daily operations as an efficient, repeatable process, rather than an exception.



Erreà has opted for a combined Tiger600-1800TS and TS330-1600 setup to support high-volume production, colour consistency and customised sportswear manufacturing

The consolidated Mimaki setup also simplifies machine management and maintenance, optimises production space and ensures reliable, repeatable results across different production locations. "With the new installation in place and fully operational and Mimaki as a reliable technology partner, we strongly believe that we will be able to continue our path of industrial evolution with confidence", add Angelo Gandolfi.



By combining the industrial productivity of the Tiger600-1800TS with the agility of the TS330-1600, Erreà can switch seamlessly between volume-driven production and customised jobs, making mass customisation fully integrated into daily operations as an efficient, repeatable process.

Commenting on the installation, Marco Vanzini, Sales Manager at Mimaki Bompan Textile, says: "This installation reflects Erreà's clear strategic

vision: simplifying production while increasing performance, flexibility and colour consistency. By combining industrial productivity with digital agility, the Tiger600-1800TS and TS330-1600 systems provide a solid, future-ready platform to support Erreà's growth in a highly demanding sportswear market."

For more information about Mimaki's innovative products and solutions, visit: [www.mimakieurope.com/](http://www.mimakieurope.com/).

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**Clare Porter, Associate Director, Bespoke**  
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## BB Engineering GmbH

**BBE in the German research project in order to develop textiles made from absolutely bio-based polyethylene (PE)**

**Development of bio-based polyethylene fibers for textile applications – BB Engineering participates in the bioPEtex research project**

In the German research project bioPEtex, BB Engineering (BBE) is working with other partners to develop textiles made from 100% bio-based polyethylene (PE). The aim is to make use of this polymer, which has hardly been used in the chemical fiber industry to date. BBE is contributing its spinning and texturizing expertise and developing the texturing process on an industrial scale. The first promising results are already available – opening up new opportunities for sustainable and economically attractive applications in the textile industry.

For years, the global chemical fiber market has been dominated by PET, a technically mature, versatile, and cost-effective polymer for textile applications. However, despite its advantages in terms of processability, strength, and economic availability, PET has come under criticism: its dependence on fossil raw materials, high CO2 emissions along the value chain, and challenges in recycling PET products are drawing the attention

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of researchers and industry to alternative materials that are both economical and sustainable.



White and black 96f organic PE POY, produced by the Institute of Textile Technology at RWTH Aachen University  
(Source: Falke and ITA, Aachen)

Biopolymers are an important keyword in this context. However, PET cannot be produced on an industrial scale in a 100% biobased manner. Clothing made from 100% other biopolymers only exists in studies, as it is too expensive for the mass market. In this context, the German research project bioPEtex is investigating a polymer that, due to its properties, has previously been considered unsuitable for chemical fiber production: polyethylene (PE). This is because bio-based PE is inexpensive to procure and environmentally friendly. However, it has not yet been developed for use in the textile industry.

BB Engineering (BBE) is one of the industrial partners working with RWTH Aachen University to implement the project funded by the German Federal Ministry of Research, Technology, and Space. The aim of the project is to develop textiles made from 100% biobased polyethylene that are both environmentally friendly and economically viable. BBE is a supplier of spinning, texturizing, and recycling equipment as well as extrusion and filtration technology, and supplies customers all over the world. BBE therefore has extensive expertise in the manufacture of synthetic fibers and their return to the recycling cycle. The company is contributing this long-standing expertise to the bioPEtex project. On the one hand, BBE is providing consulting support for the development of the spinning process. On the other hand, BBE is responsible for the crucial process step of texturizing, which has a significant influence on the subsequent textile performance of the developed fibers.

“With our participation in the bioPEtex project, we don’t just want to contribute to the development of sustainable solutions, we also want to focus on the economic benefits for our customers,” explains Dr. Klaus Schäfer, Managing Director of BBE. “Bio-PE textiles offer companies the opportunity to reduce their production costs while tapping into new market segments.”

#### PE and its role in the chemical fiber industry

PE is one of the most commonly produced polymers worldwide. Particularly durable, hydrophobic, lightweight, and chemically stable, it is used not only in its main area of application, the packaging industry, but also in various other areas such as building materials and consumer goods. However, PE has so far played hardly any role in textile fiber production. From a technical point of view, this is mainly due to processing challenges. PE crystallizes at low temperatures and therefore offers a narrow temperature window for spinning and texturing. In addition, the low polarity of PE makes it difficult to dye.

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www.beaelectronics.com



Today, PE is used exclusively as a functional component in composites, geosynthetics, or special high-performance fibers (e.g., UHMWPE)—but hardly ever in traditional clothing or home textile segments. Yet the material structure also offers properties that are highly attractive for certain textile applications:

- ▶ very low density resulting in extremely lightweight fibers,
- ▶ excellent chemical resistance,
- ▶ very good dimensional stability and abrasion resistance,
- ▶ potentially good recyclability due to clear polymer structure,
- ▶ water-repellent and quick-drying with a cool feel.

The issue of difficult dyeability could be resolved by spinning dyeing.

As a result, PE could become relevant for applications where lightweight construction, hydrophobicity, robust performance, and recyclability are required—for example, in sports textiles, outdoor products, technical textiles, or hygienic disposable products.

“This opens up completely new product architectures for our customers. A material such as PE, which has hardly been represented in the textile market to date, could – provided that processing is optimized – enable highly attractive applications in economic terms,” explains Dr. Klaus Schäfer.



Seamless knit t-shirt made from organic PE by Falke  
(Source: Falke)

### Bio-based PE – Economic and ecological potential for the textile industry

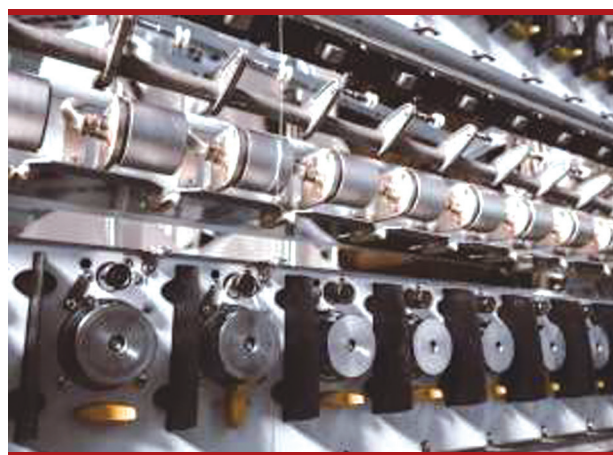
Unlike PET, bio-based PE is chemically identical to its fossil-based counterpart: both materials are completely identical in terms of structure and properties. The only difference lies in the origin of the monomers used. Bio-based PE is usually produced from fermented sugar (e.g. from sugar cane) or starch (e.g. from corn).

Compared to fossil-based PE, it has a significantly better carbon footprint and opens up the possibility of a completely bio-based textile recycling cycle without any loss of quality. Since the low melting

point reduces the energy required for processing and (bio)PE is widely available globally, energy and material costs are potentially lower. The textile industry can benefit here from the established raw material flows of the packaging and plastics industries. In addition, the introduction of PE fibers enables the development of new, highly specialized product segments and opens up additional differentiation opportunities for manufacturers through sustainable material alternatives.

### BB Engineering develops PE texturizing process

However, before PE can be used on an industrial scale as a material for the chemical fiber industry, it must first be systematically researched and tested. The bio-PEtex project is currently working on this. Within the consortium, BBE is responsible for developing and adapting the texturizing processes. This step is crucial, as it is the texturing that defines the subsequent haptic, functional, and mechanical properties of a fiber. The challenge lies in modifying PE under the novel process conditions in such a way that it becomes compatible with established textile applications.



BB Engineering builds spinning and texturizing lines.  
(Source: BB Engineering)

“Our many years of experience in developing chemical fiber production plants and our in-depth understanding of process management enable us to develop innovative solutions that go far beyond the current state of the art,” says Ralf Morgenroth, Head of Engineering Texturizing at BBE.

Overall, the project comprises several innovative steps:

1. Material development: Development and production of spinnable bio-PE compounds by TECNARO containing bio-based color pigments.
2. Prozess optimization: Melt spinning and false twist texturing processes, which are being

## SCIENCE IN INDUSTRY

scaled up for industrial use at the Institute for Textile Technology at RWTH Aachen University and at BBE.

3. Textile production: The partner FALKE is conducting initial knitting trials to validate the yarn in the form of demonstrator T-shirts.

The results so far show promising progress: the bio-PE yarns have suitable mechanical properties and are comfortable to wear with a cooling effect, which is desirable in sportswear, for example. At the same time, a design-for-recycling approach is being pursued in order to efficiently recycle the textiles at the end of their life cycle. A particular milestone in the project is the successful production of a first white t-shirt — a first step toward testing marketability. Further development steps and optimizations are of course still necessary here.

"We are very positive about the results so far. They show that PE has real potential in textile value creation and can offer significant economic and ecological advantages for the industry in

specific applications. We are delighted to be involved in this pioneering project. It is our aim to provide our customers with sustainable and profitable innovations," says Dr. Klaus Schäfer.

#### About BB Engineering GmbH

BB Engineering GmbH is a German machine building company founded in 1997 as a joint venture between Barmag, nowadays a subsidiary of the Rieter group, and the Brückner group. Today, the company employs about 150 members of staff at its location in Remscheid, Germany, focusing their business on the development, engineering, design and manufacturing of extrusion, mixing and filtration technologies as well as complete spinning lines (VarioFil®), air-texturizing lines (JeTex®) and recycling technologies (VacuFil®, Visco+) for the plastics and textiles industry.

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Mrs. Pia Kürten

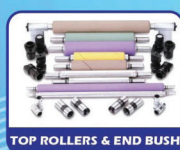
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# SPINETEX EXPORTS

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## ColorJet

### Print More for Less. A Lot Less.

#### ColorJet Launched VastraJet Elite — cost effective digital textile printer Empowering New-Age Textile Entrepreneurs

ColorJet Group proudly announces the launch of VastraJet Elite, a powerful yet cost-effective digital textile printer designed for entrepreneurs, startups, and job workers looking to begin their journey in fabric printing with low investment and high versatility.

ColorJet Group has showcased VastraJet Elite with a live demonstration at Knit-Tech Exhibition, held from 06th to 09th March in Tirupur, where visitors witnessed the machine's performance and production capabilities firsthand.

Equipped with 8 KM print heads and configured in 8 colors, VastraJet Elite delivers an impressive production capacity of up to 3200 SQM per day, enabling new businesses to handle niche production jobs efficiently while maintaining consistent quality and profitability.

With the textile industry rapidly evolving toward customization, short runs, and fast turnarounds, VastraJet Elite empowers new businesses to print diverse applications while maintaining significantly lower operational costs.

Designed for New Beginnings, VastraJet Elite is built for individuals who want to start their own textile printing venture and tap into growing demand for personalized and small-batch products. Whether it's Stoles, Dupattas, Shoes, Bags, Cushions, Table runners, Table covers and nonetheless to say fashion apparel.



The machine enables entrepreneurs to cater to multiple niche segments without heavy infrastructure or large production commitments with infinite possibilities.

Today's market rewards flexibility. From boutique fashion brands to home décor startups and custom merchandise sellers, customized

demand is driven by smaller quantities and unique designs. VastraJet Elite empowers businesses to accept short-run orders profitably, reduce inventory risks, minimize setup time, deliver vibrant, high-quality prints, Expand into multiple product categories

Speaking on the launch, Mr. Arun Varshney, Vice President and Business Head – textile Business from ColorJet shared,

"VastraJet Elite is not just a machine; it's an opportunity. We wanted to create a solution that lowers the barrier to entry for textile printing businesses while ensuring quality and scalability. This printer allows aspiring entrepreneurs to confidently step into digital textile printing and grow steadily. The core philosophy behind VastraJet Elite is simple — maximize output while minimizing cost."

VastraJet Elite positions new entrepreneurs at the center of this transformation. For anyone thinking about starting fresh, exploring new income streams, or entering the digital textile printing industry — this is the right time.

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## Jeanologia

### Jeanologia has been able to prove it is possible to produce jeans without polluting water and presents its Environmental Profit and Loss Account

- » Thanks to its technologies, more than 21.5 million cubic meters of contaminated water and over 103 million kilograms of CO<sub>2</sub> were avoided in 2025.
- » The company is putting figures behind a transformation already underway: reshaping denim production by eliminating polluting processes and drastically reducing resource consumption.

On World Water Day, a global awareness date highlighting the growing scarcity of this resource and the urgent need for responsible water use, Jeanologia presents its Ecological Profit and Loss Account, a pioneering model that measures the positive impact generated by the implementation of its technology in the textile industry.

## SCIENCE IN INDUSTRY

In a global context where water has become one of the planet's most pressing challenges, the company is putting figures behind a transformation already underway: reshaping denim production by eliminating polluting processes and drastically reducing resource consumption.

Since 2015, Jeanologia has been auditing and publishing this Environmental Profit and Loss Account, becoming the first company in the sector to systematically quantify the positive environmental impact derived from the use of its technologies. The model measures two key indicators: the volume of polluted water avoided and the reduction of CO<sub>2</sub> emissions, turning sustainability into a tangible and verifiable result.

Thanks to the global implementation of its technologies, more than 21.5 million cubic meters of polluted water were avoided in 2025, equivalent to the annual water consumption of a city like Copenhagen. In addition, over 103 million kilograms of CO<sub>2</sub> emissions were reduced,

comparable to the amount of carbon absorbed in one year by a forest of more than 20,000 hectares.

This impact is the result of integrating technologies developed by Jeanologia, including laser, G2 ozone, low consumption eco washers, e-Flow nanobubble technology, H2 Zero water recycling systems, and Colorbox sustainable dyeing solutions. These innovations enable the elimination of toxic processes, drastically reduce water usage, and support zero-discharge production models.

Today, more than 5,000 machines installed across over 70 countries are transforming denim production processes, reducing intensive water and chemical use, minimizing inefficient manual processes, and producing for some of the world's leading brands.

In addition, Jeanologia provides the industry with its EIM (Environmental Impact Measurement) platform, a tool that acts as a compass to measure, monitor, and improve the environmental impact

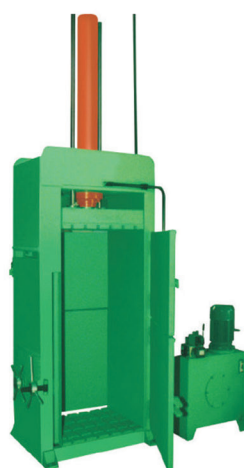


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of production processes, enabling brands and manufacturers to make data-driven decisions and move towards more responsible production.

“For years, sustainability was understood as a future commitment. Today, it is a measurable reality already in motion. The industry has the technology, the knowledge, and the responsibility to operate within the limits of the planet,” states Enrique Silla, CEO and founder of Jeanologia.



With this initiative, the company reinforces its role as a driving force for change within the textile industry, demonstrating that sustainability and efficiency can go hand in hand when there is real implementation at scale.

Through its ‘Mission Zero’ roadmap, Jeanologia continues to advance towards a dehydrated and detoxified textile industry, where water consumption is reduced to a minimum and environmental impact is eliminated.

At a time when access to water is one of the world’s greatest challenges, Jeanologia calls on the entire value chain—brands, manufacturers and consumers— to accelerate the transition towards more responsible production models. Because the future of fashion is defined not only by design, but by how it is made.

**Jeanologia: 30 years leading the transformation of the textile industry**

Since its founding, Jeanologia has been on a mission to transform the textile industry into a more ethical, sustainable, and efficient model. The company works closely with brands, retailers, and suppliers on this transformative journey, offering disruptive technologies, innovative software, and a new operational model. Their groundbreaking solutions, including laser technology, G2 ozone, Dancing Box, e-flow, H2Zero, and ColorBox, have redefined garment design and finishing standards, eliminating polluting processes and significantly

reducing the use of water, energy, and chemicals. Thanks to these advancements, Jeanologia has saved millions of liters of water and eliminated harmful substances, turning its vision of a truly sustainable textile industry into reality.

From the introduction of its laser technology in 1999, which revolutionized denim finishing, to its current challenge of implementing a revolutionary sustainable garment dyeing process, the Spanish company has pioneered solutions that not only benefit the environment but also optimize operational costs. Looking ahead, Jeanologia remains committed to creating an eco-efficient and ethical textile future, encouraging all industry stakeholders to join its Mission Zero initiative: dehydrate and detoxify the textile industry. No more water and toxic chemicals used in garment finishing around the world.

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## Uster Technologies AG

### The game-changer in fabric quality assurance

**Uster Fabriq Vision 2 was developed to help fabric producers’ transition from manual to automated inspection – with the same staff**

Why do many fabric producers still feel the need to rely on manual inspection? It’s understandable that they are nervous about safeguarding their fabric quality, given that it is the basis for customer satisfaction. Yet the skilled personnel they rely on to secure that quality can now be the success factor in a massive leap of progress – to automated inspection with the new Uster Fabriq Vision 2. Smarter, more reliable inspection, creating bigger yields and avoiding the dreaded quality claims.

Fabric Vision 2 was developed to enable the smooth and simple transition from manual to automated inspection, with the confidence of knowing that the same knowledgeable staff are still a vital part of the process, the safe hands that make the upgrade worry-free for producers.

It’s true that fabric inspection solutions still occupy something of a niche position, despite years of development. Even with the extra possibilities from AI integration, manual inspection is still preferred by many companies. The required

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investment in time and expertise for set-up and adapting to different fabrics has likely been a barrier. What's needed is a game-changer – a system that is the perfect fit with existing staff skills to protect quality standards, reputation and profitability.



Uster Fabriq Vision 2 - The simplicity of fabric quality assurance

### Smarter, simpler, more reliable

Uster developers are always innovating with latest technology, but they realized that progress in fabric inspection automation would need to focus on reducing the complexity for style configuration and setups, so the skills of current staffs could readily be applied. They also prioritized user-centric workflows, to avoid overly sensitive settings that might result in over-detections and time-consuming album reviews.

With these smart concepts, Uster Fabriq Vision 2 becomes the game-changer the industry needs. Proven defect detection reliability is enhanced with cutting-edge AI technologies. But importantly it follows the unique approach of using human intelligence where needed – and automating the rest.

This new fabric inspection system doesn't need an Uster expert or a specially-trained technician to operate it. Simplicity is the key, so existing staff have required skills. They can already define what a fabric defect is, with the ability perfected over years working on manual fabric inspection. Uster Fabriq Vision 2 is based on a user-friendly workflows, simplifying complex tasks, so the system is transparent, intuitive, and quickly up and running.

### Style tuning in 10 minutes

Uster's latest-generation fabric inspection system benefits customers through AI-supported style tuning, based on textile parameters, enabling startup of new articles in less than 10 minutes.

Users with a basic understanding of the appearance of common defects can quickly create new detection settings for a specific fabric, guided step-by-step by a wizard which uses known textile parameters along with live images from the system cameras.

The integrated intelligence then applies this information to preset and adjust the necessary detection parameters to create an initial article setting. Inspection parameters can be visually fine-tuned, based on true color images, allowing quick and confident decision-making while setting adjustments, as well as creating classification rules.

Uster's machine learning classification reduces over-detection, using transparent rule-based methods, alongside real-time defect classification with individually customizable defect codes. Furthermore, the Super Inspection feature enhances process and quality assurance by allowing higher sensitivity background detection, making detailed information available whenever needed.



Camera of Uster Fabriq Vision 2 – andreddot award winner 2025 for innovative and industrial design

These simple and smart workflows are the key to improving both inspection reliability and operational efficiency.

### Fast, intuitive... and already a hit

The fully integrated platform of Uster Fabriq Vision 2 brings together an advanced inspection system, AI-supported workflows, and powerful



analysis and reporting tools in one seamless solution. This holistic approach enables fabric producers to achieve consistent quality, increase yield, and make informed, data-driven decisions with greater ease and confidence. Uster Fabriq Vision 2 achieves all this with reduced cost of ownership, thanks to lower user skill requirements, faster adoption times and self-maintenance possibilities.

First introduced at ITMA Asia + CITME in Singapore in 2025, Uster Fabric Vision 2 was a hit with visitors to the show. Its improved user-centric workflows and usability, enabling customers to rely on their own quality inspection staff as operators, proved its value in meeting modern demands for automated fabric inspection. First-hand information will again be available at the upcoming Techtextil 2026 in Frankfurt, Germany. Meet the Uster fabric inspection experts with Uster agent Elmatex, at its booth D05 in Hall 12.0 from April 21 to 24. Curious fabric producers are warmly welcome!

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## Kornit Digital

**UK Manufacturer Basic Prints expands its digital production capacity with a 2nd Kornit Apollo Direct-to-Garment (DTG) system**

**Transitions Majority of Production to Fully Automated Digital Mass Production to Serve UK High Street Retailers With Speed and Agility**

Kornit Digital LTD. (NASDAQ: KRNT) ("Kornit" or the "Company"), a global leader in sustainable, on-demand digital fashion and textile production technologies, today announced that UK clothing manufacturer Basic Prints has expanded its digital production capacity with a second Kornit Apollo Direct-to-Garment (DTG) system. This marks a strategic shift supporting Basic Prints' digital-first manufacturing model.

Founded more than 30 years ago, Basic Prints has built its reputation supporting leading high street retailers, licensed music programs, and private label fashion brands with high-quality manufacturing and garment decoration. Basic Prints has now strategically transitioned the majority of its UK production from traditional screen printing to fully automated digital mass production – positioning itself at the forefront of agile, on-demand driven apparel manufacturing.



With two Apollo systems running at industrial scale, each capable of producing thousands of prints per day, Basic Prints has redefined its operational model to meet the speed, complexity, and unpredictability of today's retail environment. The investment enables Basic Prints to deliver rapid replenishment, manage complex graphics without setup limitations, and switch designs instantly while maintaining consistent industrial level quality.

Apollo is a fully automated high volume DTG platform that manages loading, printing, curing, and unloading in a seamless workflow. By eliminating traditional screen setup processes and significantly reducing labor intensity, the system enables true end-to-end digital mass production at scale.

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"This is not about just adding capacity. It's about redefining how apparel is produced at scale," said Ronen Samuel, Chief Executive Officer



at Kornit Digital. "Basic Prints has moved most of its production from screen to digital and is running thousands of prints per day on each of

their Apollo systems. That shift gives them the freedom to change designs instantly, manage complex graphics with ease, run short- or mid-sized orders without setup limitations, and deliver consistent quality at industrial volumes, proving again that digital is ready for mainstream retail production."

By bringing high-volume digital production closer to market, Basic Prints enables retailers to reduce inventory risk, shorten lead times, and react quickly to demand spikes. The move supports a broader industry shift toward a more agile, data-driven manufacturing model.

"We have spent more than three decades manufacturing garments for the UK retail market," said Kieran Hickey, Founder of Basic Prints. "Digital production is no longer an add-on to our business. It is now the backbone of how we operate. With two Apollo systems in place, we can deliver industrial scale with the flexibility modern retail demands. It simplifies our operations,

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- Tin Roller Bearings – GRAE 45 NPPB
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- Can Castor Wheels (60\*25mm, 80\*25mm)
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### About Kornit Digital

Kornit Digital (NASDAQ: KRNT) is a worldwide market leader in sustainable, on-demand, digital fashion and textile production technologies. The Company offers end-to-end solutions including digital printing systems, inks, consumables, software, and fulfillment services through its global fulfillment network. Headquartered in Israel with offices in the USA, Europe, and Asia Pacific, Kornit Digital serves customers in more than 100 countries. To learn more, visit [www.kornit.com](http://www.kornit.com)

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## Sedo Treepoint

### Sedo Treepoint to showcase at Techtextil 2026 – smart technologies for technical textile production

#### Sedo Treepoint to focus on following key points

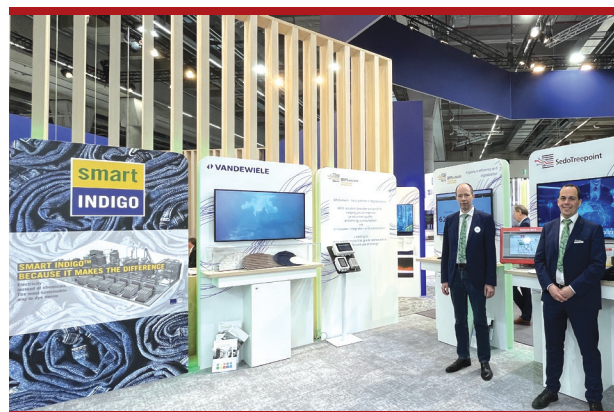
- » Solutions for managing complex production environments by integral automation and MES
- » Shift from trouble shooting to end-to-end process control
- » Support for efficiency, transparency and sustainability in technical textiles

As technical textile production becomes increasingly complex and sustainability requirements intensify, digital integration is evolving from an efficiency tool into a strategic task. At Techtextil 2026 (April 21–24, Frankfurt am Main), Sedo Treepoint will present smart digital systems designed to address the demanding production environments of technical textile

manufacturing. The company's focus will be on practical technologies that enhance process transparency, reproducibility, and efficient resource use. Visitors will meet Sedo Treepoint in Hall 12, Booth D05.

### Turning production complexity into controlled performance

Technical textile manufacturers are facing increasing pressure: smaller batch sizes, highly specialized product requirements, strict standards, rising energy costs and growing sustainability demands. In this environment, stable processes and reproducible quality can no longer rely on isolated machine control.



Sedo Treepoint's automation systems, MES solutions and control platforms enable manufacturers of technical textiles to intelligently connect machines, process control and production data within a consistent digital environment. This integrated approach supports stable processes, reliable quality and improved decision making, even where frequent changes or strict technical requirements increase production complexity.

By participating at Techtextil 2026, Sedo Treepoint aims to engage with manufacturers of technical textiles, OEMs and industry partners who are looking for integrated, practical digital solutions for complex production processes. Visitors will gain insights into how Sedo Treepoint's solutions enable customers to move from reactive troubleshooting to end-to-end process control, automated and connected monitoring, manage complexity and create a solid foundation for sustainable, future ready technical textile production.

### Meet Sedo Treepoint at Techtextil 2026

Visitors to Techtextil 2026 are invited to experience how connected automation and MES solutions can support technical textile

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manufacturers in mastering complexity while increasing efficiency, transparency and sustainability.

#### About Sedo Treepoint GmbH

Based in Mengerskirchen, Germany, Sedo Treepoint GmbH has been developing and supplying automation, control and management systems for textile dyeing and finishing for several decades. The company focuses on digital process integration, intelligent production control and sustainable manufacturing solutions for both classical and technical textile applications.

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### ABOPR Pressedienst B.V.

**Pyroshell™ ; a flame-retardant textile technology to be exhibited in Techtextil 2026 in Frankfurt, Germany**

Trade Fair Preview on Techtextil 2026 in Frankfurt, Germany (21 to 24 April)

**Enhanced protection without added weight: Innovative technology for flame-retardant textiles doubles reaction time and ensures high wearing comfort**

**Expandable graphite-based carrier material expands to 40 to 60 times its volume in the event of fire**

Flame-retardant textiles have long faced the same dilemma: the higher the level of protection, the greater the compromise in comfort, weight and breathability. This is especially important for workwear and protective clothing worn for long hours, where comfort is crucial to wearer acceptance and satisfaction. At Techtextil 2026 in Frankfurt, Swiss company Textilcolor AG will unveil pyroshell™, an innovative flame-retardant technology designed to tackle this challenge. Protection is provided by a graphite-based functional layer integrated into the textile structure,

which doubles the reaction time before burns occur while significantly enhancing comfort. The material does not release any toxic fumes and offers textile manufacturers entirely new opportunities to design and produce protective and functional garments. It is also durable enough to withstand up to 50 industrial washes.

“With pyroshell™, we are presenting a flame-retardant technology at Techtextil for the first time that combines safety with comfort,” says Detlef Fischer, CEO of Textilcolor AG. “It provides protection in critical situations without compromising comfort in everyday wear.”

**Thin expandable graphite layer delivers high flame protection**

The demands on modern protective textiles are continuously increasing. In addition to regulatory requirements, ergonomics, breathability and low weight play a central role. Traditional flame-retardant solutions often rely on inherently flame-resistant specialty fibres or additional chemical treatments, which can make garments heavy, stiff and uncomfortable. Modern solutions such as pyroshell™ provide high levels of protection without compromising comfort, making them suitable for a wide range of applications – from police, security and special forces to energy companies and industrial workers in high-risk environments such as oil, gas or high-voltage networks. Conventional flame-protection garments often have two major drawbacks: they can release harmful fumes when exposed to heat and are typically heavy, stiff or uncomfortable in everyday use. This creates a trade-off between maximum flame protection and wearability. Pyroshell™ was developed to address this challenge, offering reliable safety while maintaining comfort.

**Pyroshell™ doubles the reaction time before burns occur**

It consists of a flexible expandable graphite layer combined with a thin, non-melting and non-combustible carrier layer, which serves as a stable protective base. This component is integrated as a separate layer between textile fabrics without restricting comfort or freedom of movement. A key differentiator is that it can be applied to a wide variety of fabrics, including polyamide, polyester, Cordura-like materials, and stretch textiles. The technology allows for a lower overall weight while providing greater design flexibility.



In everyday use, the intermediate pyroshell™ layer remains dormant, giving garments the feel of standard workwear or outdoor clothing. It responds only when exposed to heat or flames exceeding 180 °C, and if the outer textile layer is damaged, it activates to provide protective performance. The embedded expandable graphite rapidly swells to 40 to 60 times its original volume, forming a stable protective barrier that effectively shields the wearer from heat and flames. It prevents further burning and stops molten material from dripping onto the skin. Tests have shown that pyroshell™ doubles the reaction time before burns occur compared with conventional materials, offering a significant safety advantage for the wearer. As a reactive safety solution, the protection is virtually invisible in everyday wear, yet permanently present and activates precisely when needed. It remains reliable even after 50 industrial washes.



As a reactive safety solution with a high level of wearing comfort, the protection remains virtually invisible, yet is permanently present and activates precisely when required.

#### Maximum protection without compromising comfort or freedom of movement

A key advantage of pyroshell™ is its combination of high protective performance and comfort. The material contains no halogen- or phosphorus-based chemicals, ensuring that no toxic fumes are released in the event of fire. At the same time, the fabric remains lightweight, flexible and breathable, a crucial factor for comfort and acceptance during daily use. Depending on the fabric construction or material combination of the end product, pyroshell™ meets European standards for protective

clothing against heat, flames and thermal hazards, as well as requirements for limited flame spread. The material is also suitable for protection against electric arcs, making it ideal for applications in high-voltage environments. Additional protective properties, such as electrostatic dissipation or chemical splash resistance, can also be integrated. pyroshell™ can be tailored to different applications and combined with other functional technologies. Manufacturers benefit from design flexibility and the ability to develop protective solutions based on common synthetic fabrics.



The test series demonstrates the limited flame spread. The expandable graphite swells to 40 to 60 times its original volume, forming a stable protective barrier against flames that remains effective, even after more than five minutes.

Under the motto "Specialty Chemicals Designed for You," we will be presenting pyroshell™ to a broad professional audience for the first time at Techtextil in Frankfurt. This expands our product range with a forward-looking solution for integrated flame protection and opens up new application areas in protective and functional clothing," says Fischer. pyroshell™ complements the other brand technologies on display at the trade fair stand: coolcolors reduces heat build-up in textiles under sunlight, improving thermal comfort and UV protection. Dry³ ensures rapid drying and effective moisture management. enerG uses a titanium-mineral matrix to selectively reflect the body's far-infrared energy, and RepelPro provides an eco-friendly, PFC-free water and dirt repellency for weather-resistant textiles.

TEXTILCOLOR AG was founded in 1978 in Buchs, Switzerland, and has since developed into an international company. Continuous growth has been accompanied by the expansion of production facilities and laboratories and ongoing investments in environmentally sustainable technologies. The formation of TEXTILCOLOR

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HOLDING AG in 1990 brought together a number of subsidiaries under one roof. From the mid-1990s onwards, the company achieved ISO 9001 and ISO 14001 certification and became the first company in Switzerland to implement a biomembrane-based wastewater treatment plant. Since 2000, continuous investments have been made in production facilities, sustainable energy supply, and infrastructure. International locations in Morocco, Turkey, India, Italy, and Brazil have strengthened its global presence. In 2025, Schoeller Technologies AG was integrated into the company. As a manufacturer of specialty chemicals, dyes, and pigments, TEXTILCOLOR offers a broad product range alongside innovative technology brands, including fluorine-free repellent technologies, quick-drying, cooling, energy, and flame protection solutions. The development of a dedicated Textilcolor app further highlights the company's focus on innovation and customer proximity. Since 2017,

TEXTILCOLOR has pursued the strategic motto: "We sure know textiles". The company stands for sustainable, environmentally friendly solutions, modern infrastructure, and a clear future-oriented vision.

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## M/s. Basant Fibertek Pvt. Ltd.

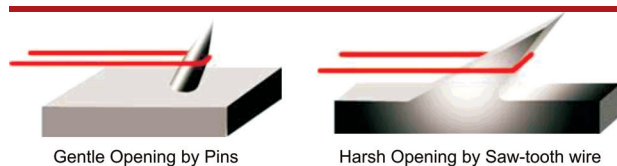
### BASANT's Advanced Solutions for Spinning Recycled Yarns

Having done extensive research tasks BASANT has been able to address the problems of after effects of recycled fibers

In the current market conditions, spinners are increasingly using recycled fibers both to reduce their cost of production and to meet the market demand for recycled fibers. But the challenges are many - high trash and micro-dust, short staple length, inconsistent fiber mix, fiber rupture during the waste tearing and fiber preparation processes, high level of contamination, among others. After extensive research and experiments, BASANT concluded that the best way to address all these problems is to ensure better opening and cleaning while ensuring minimum damage to the already weakened fibers during the process of fiber reclamation and spinning.

BASANT FIBERTEK enjoys a 60 years old chequered history as a market leader and innovator in Pins and Pinned Products for Textile Spinning and Recycling. Given the enormous opportunities and challenges in recycling textile waste, BASANT has focused on developing GENTLE FIBER OPENING SOLUTIONS to achieve high quality yarns from short and trashy fibers, while improving production and reducing process waste. Through its expertise, BASANT has been able to resolve many challenges for Recyclers and Spinners by designing custom solutions using the Gentle Opening Action of BASANT PINS.

#### CHOICE OF MACHINE CLOTHING



The above graphic will illustrate how Pins provide Gentle Opening Action as compared to the Harsh Action by Saw-tooth Wire. Pins have a smooth spherical ball-point tip which imparts a very gentle opening or untangling action on the waste or fibers, thus minimizing rupture.

In contrast, the knife edge of sawtooth wire initiates a cutting action to open the fibers, thus rupturing them and thereby generating not only a lot of dust but also shorter and weaker fibers.

The main principle adopted by BASANT is to prevent further weakening of already weak recycled fibers in order to produce a better quality yarn at higher productivity. Another very significant advantage of Pins is that it provides a de-dusting action to the fibers (similar to slapping your fingers on a dusty cloth), enabling the trash and dust to be easily separated from the fibers.

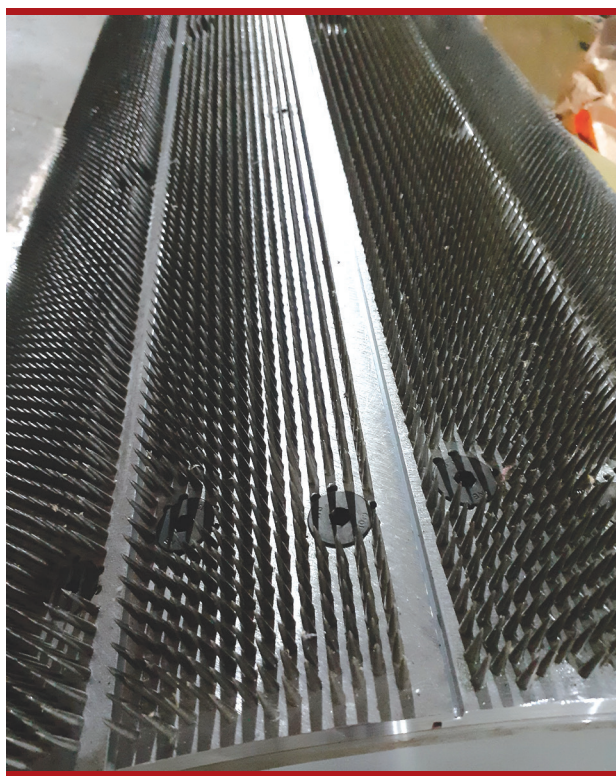
Basant has provided solutions to a wide range of waste recycling and recycled fiber spinning - be it recycled cotton from pre or post consumer waste, recycled polyester or other synthetic fibers, recycled PET fibers, silk, wool, linen or acrylic fibers or regenerated synthetic fibers. Each mill has its unique challenges, depending upon the machinery available, machinery condition, fiber mix used, yarn counts produced, and quality parameters. Hence, it is important to audit the process before designing solutions and then to handhold the client through the trials and validation. Besides product design, optimization of machine settings is critical in achieving the desired improvement in quality and productivity. Since most recycled yarns are produced through the Open-End Spinning process, BASANT has developed solutions for the whole value chain, including Waste Tearing, Fiber Preparation and Rotor Spinning. We shall briefly describe what we do in each of these processes:

#### Waste Recycling

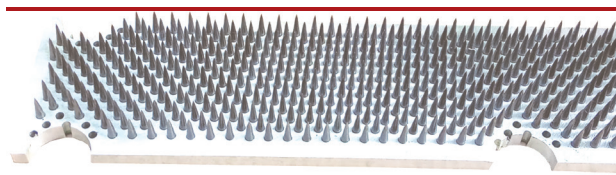
In the Tearing Machines, the reclaiming of fibres needs to be done in a gradual and gentle process to minimize fiber damage, while ensuring good opening. This is achieved by carefully designing the pin population in each cylinder and ensuring proper cylinder speed and gauge setting. Pins also give a very long life when compared to wire because the ball shaped tip wears out slowly and forms a new tip as the pin length reduces, since wear is happening all around the tip. In contrast, the knife edge of wire becomes blunt very rapidly and the opening action reduces rapidly. Our

## SCIENCE IN INDUSTRY

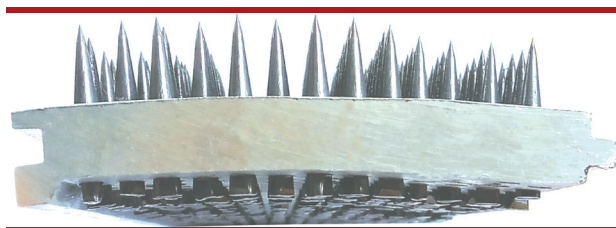
lags have successfully opened yarn waste, rags, carpet waste, jeans and other clothes, laminated felts and other forms of textile and nonwoven waste. The optimized heat treatment of Pins ensures long life whereby the pins don't break or bend easily due to high load of waste material and contaminants. Many international recyclers and OEMs are our clients. We have developed a proprietary design named Excalibur Lags, wherein the design ensures no pins fall out from the lags during operation.



Pinned Cylinder



Pinned Lags

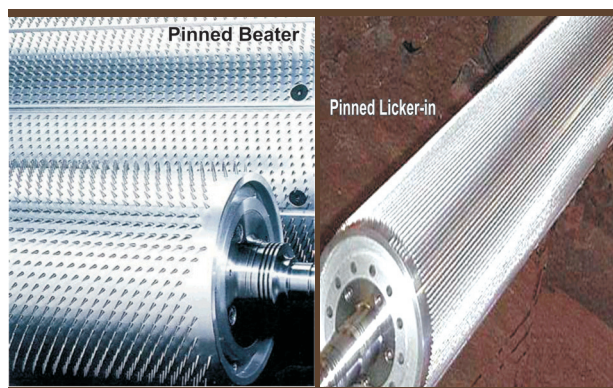


Excalibur Lag

## FIBER PREPARATORY

Beaters in the Blowroom and Chutefeed, as well as the Card Licker-in, play a crucial role in achieving a high quality of well-opened, clean and strong card sliver, the basis of producing a good yarn. Using the right design of Pinned Beaters and Licker-ins ensures a consistent quality of well opened and cleaned sliver as well as lower fiber waste. The higher the opening efficiency, lower is the waste, lower is the sliver trash, better is the yarn strength and the more and less ruptures are the fibers, lower will be the Neps in the yarn produced. A strong and lower neps sliver also ensures lower breaks during the spinning process and lower cuts at winder, thus further improving production and reducing waste. We advise most clients, who are facing challenges in their spinning, to focus on optimizing their fiber preparation to minimize their problems at the spinning stage.

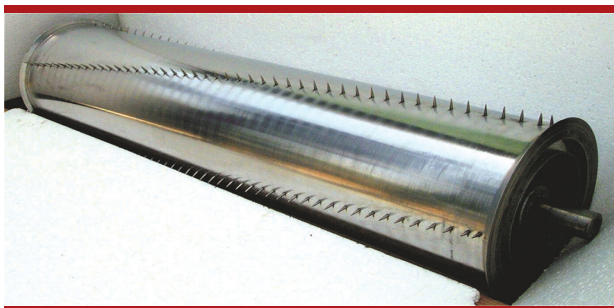
We design the pin pattern in our Beaters as per the demands of the raw material mix used in the process. Factors like pin diameter, pin population, pin angle, pin height and pin hardness have a role to play in achieving the optimum results. Through our extensive experience over many decades and execution of numerous successful projects, we have mastered the art of designing Gentle Fiber Opening solutions. We have more than 15-25 pin patterns developed for each type of Pinned Roller to specifically meet certain process requirements. Hence, we can provide guaranteed solutions for virtually any type of fibers and for any count (Ne) of yarn.



Pinned Beater

Pinned Licker-in





Chute Feed Roller

### OPEN-END SPINNING

BASANT has always believed in providing cutting edge technology solutions and many options to our clients, such that they can get optimum results in both quality and productivity at an economical cost. Recycled or regenerated fibers tend to be highly abrasive. This reduces the life of the clothing of the Opening Rollers as well as presents a stiff challenge in achieving good, consistent fiber opening.



We have addressed these challenges by developing and providing a wide range of Opening Rollers & Clothing Rings as well as Rotors for all leading makes and latest models of Rotor Spinning machines and to serve any kind of requirement of our clients. A wide range of high-performance hard coatings are available to achieve the best price to performance ratio in the highly competitive Rotor Spinning market for our clients. We have developed several innovative designs and introduced many new-age cost effective coatings for this purpose. We advice our clients on the selection of the right type of clothing ( wire as well as pins) and coating for the Opening Rollers and also the right diameter and groove of Rotors. We also offer our Opening Rollers with our Patented, hard coated Clothing that's very well received by the market.



We take pride in our ability to meet the challenges our clients face when producing recycled yarns and in our focus on promoting the recycling and circularity of textiles by introducing viable technological options to achieve the desired quality and cost parameters required for this initiative to scale and prevent the increasing problem of waste dumping. We are committed to contribute towards building a sustainable world and thereby a better future for humanity.

BASANT is participating in ITM, Istanbul in June 2024 to present its advanced, innovative and proven solutions for recycling waste and for spinning recycled yarns. Since Turkey is a big international centre for producing recycled textiles, it is an ideal platform for meeting clients who are facing challenges for which we have tested, proven and guaranteed solutions.

**For further information, please contact :**

**M/s. Basant Fibertek Pvt. Ltd.**

**E-418, Road No. 14, V.K.I Area, Jaipur-302013**

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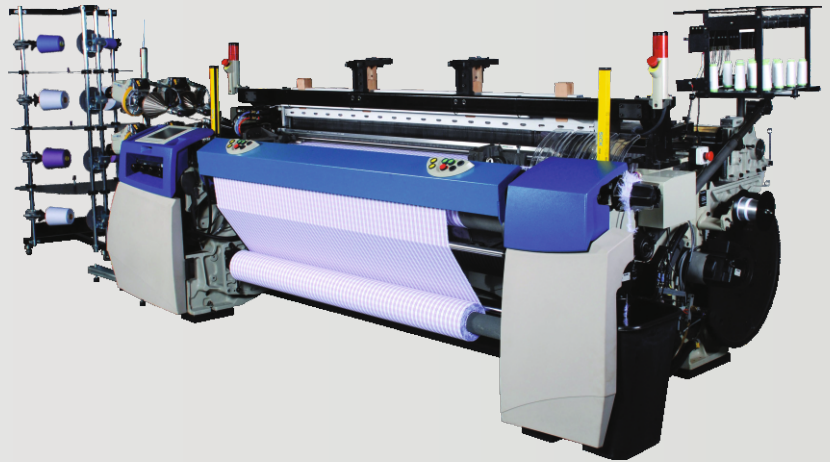
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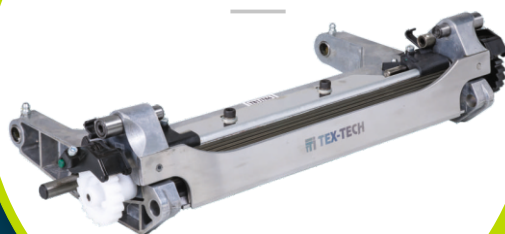
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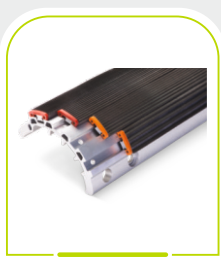
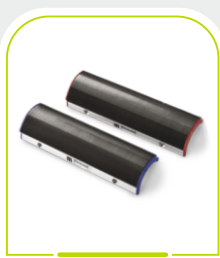
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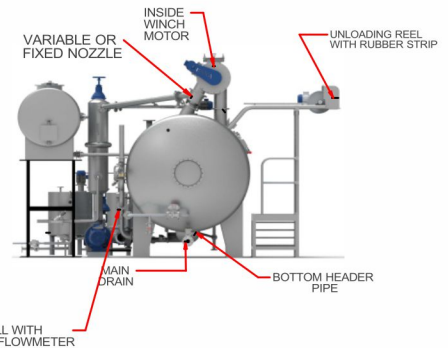
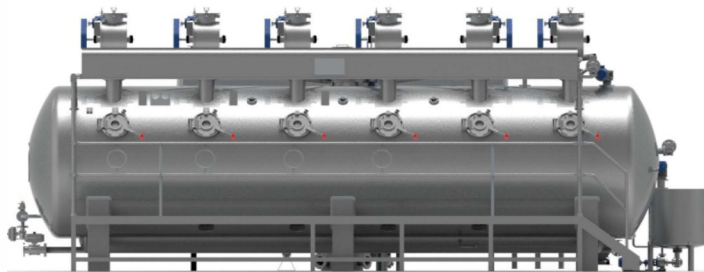
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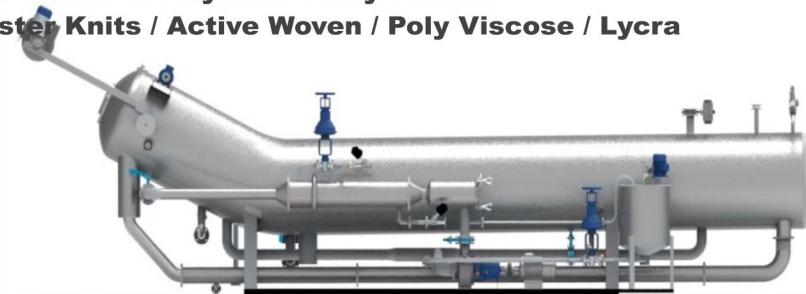
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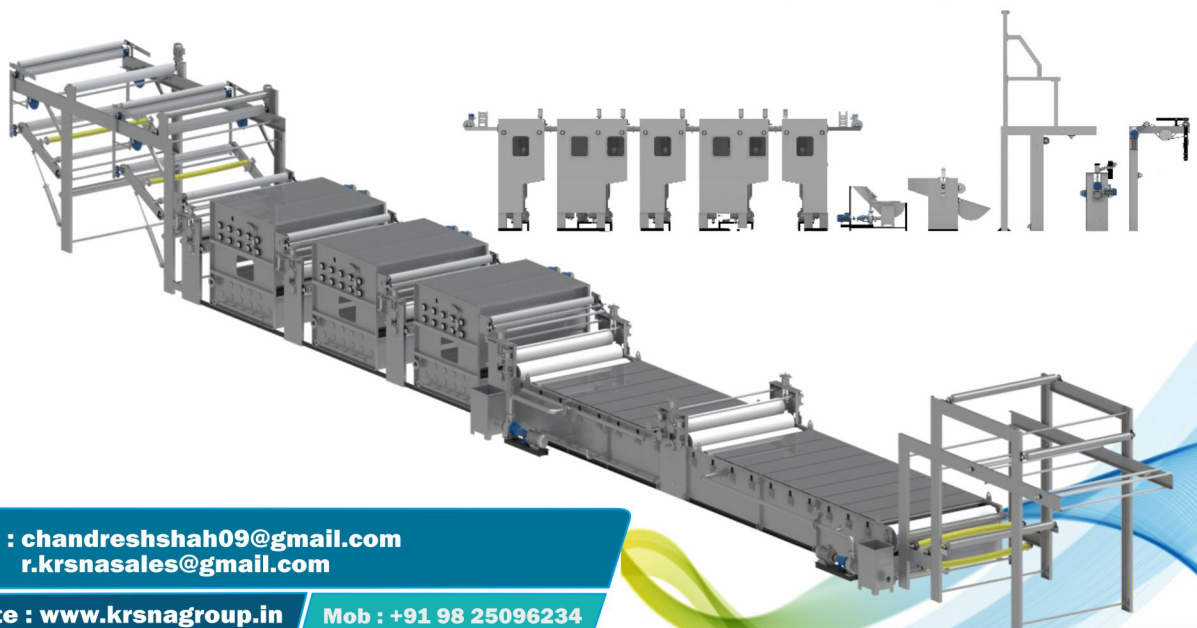


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