Textile Trends

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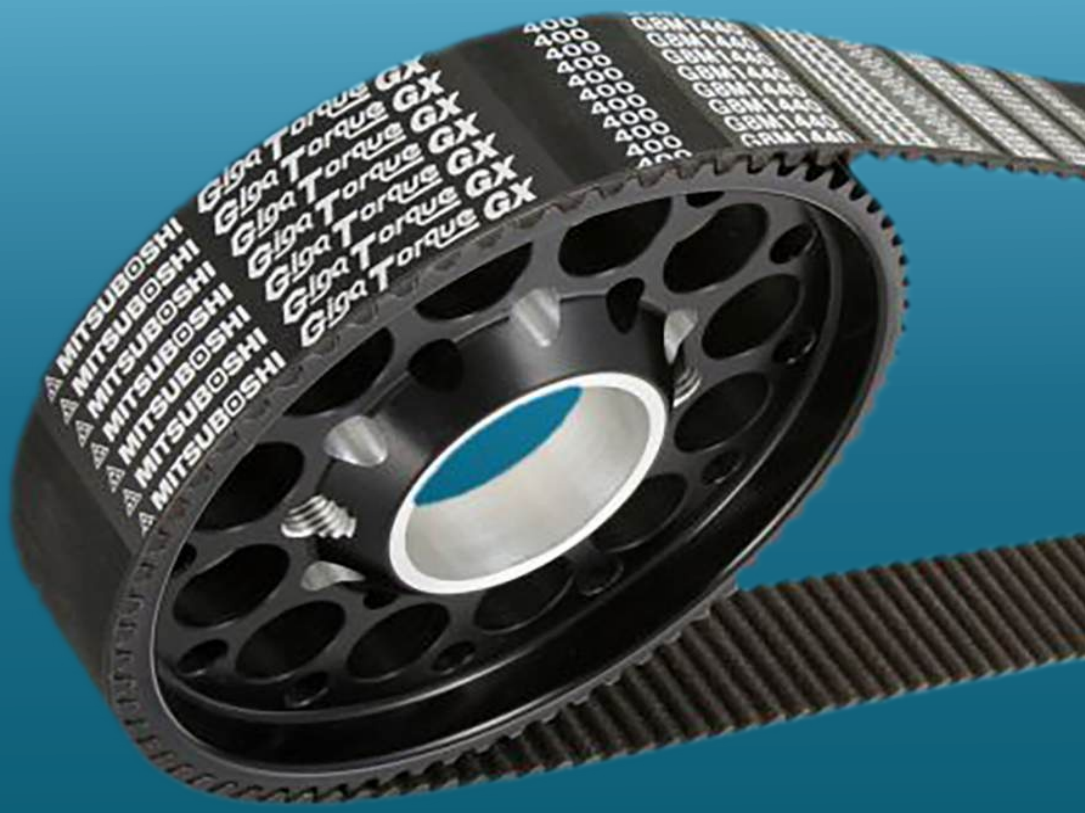

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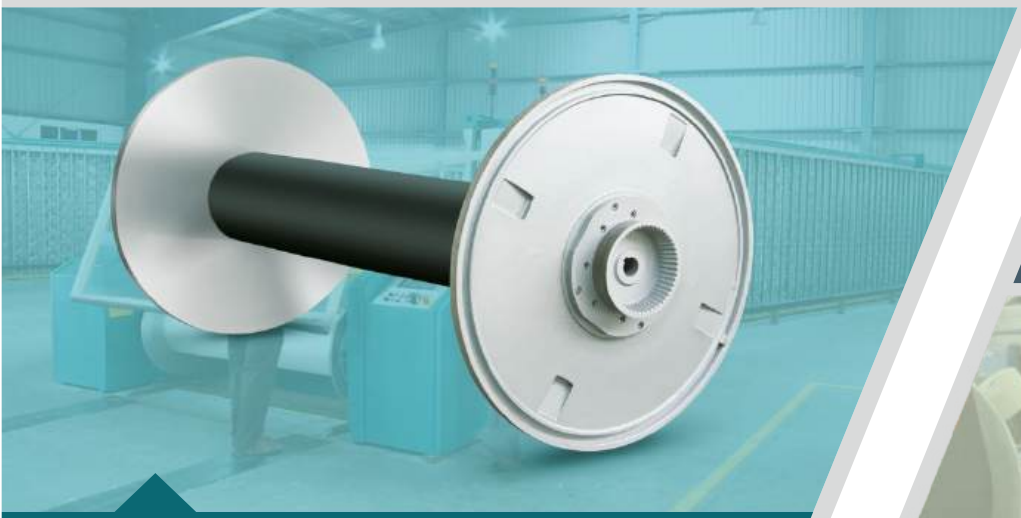

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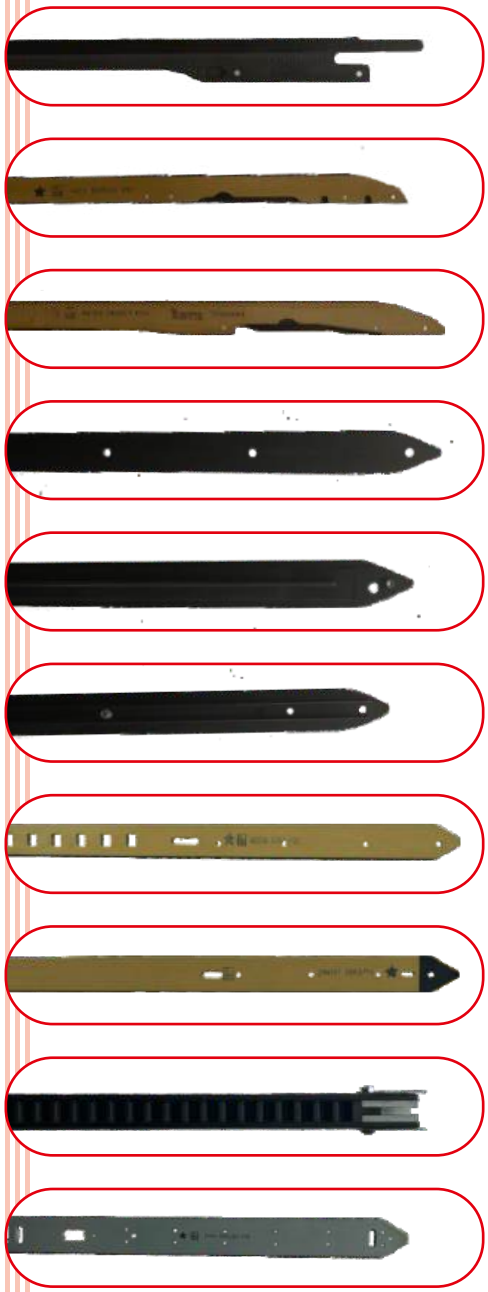

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EDITORIAL

In the 2025-26 union budget textiles have gotten a credit-worthy boost

For years, budgets rolled out with big promises, but textiles barely got a mention, in the 2025-26 budget Finance Minister finally gave the textile industry more than just a passing glance. The budget allocation has jumped from a modest Rs.3342 crore to a solid Rs.5252. With a big chunk going into industry incentives, expect faster approvals and better cash flow. Cotton just got a lifeline. India's cotton yield has been crawling at 436kg. per hectare while world zips ahead with 750+kg. Enter the five-year cotton productivity mission, aiming to boost output and reduce dependence on imports.

Technical textiles just got a boost. Shuttleless looms of specific capacities got now exemption from import duty, making it easier for the industry to upgrade its machinery. That is good inspiration for agro textiles, medical textiles and geo textiles. The government emphasis on Atmanirbharata through increased indigenous textile production aligns well with the proposed revision of the basic customs duty rate on knitted fabrics across nine tariff lines. The government's commitment to providing technical and R & D support for cotton farmers under the five years mission is a welcome move.

MSMEs have more breathing space. With increased credit limits, the marginal weavers, knitters, processors and garment makers who form the backbone of this industry finally gathers some financial strength to grow. More money in pockets (Relief for tax payers) means more clothes in carts. The middle class suddenly has extra cash to spend, and that is direct boost to fashion, home textiles and apparel sales.

It was proposed in this budget an Export Promotion Mission will be set up to facilitate easy access to credit, face the non-tariff barriers in export markets to promote exports of textile and apparels. The import duty rate on syntenic knitted fabric increased from 10% to 20%. This budget is definitely a step in the right direction. The textile industry has gotten some much needed attention, and if the government initiatives, taken in this budget, play out right, India's textile could be the start of a much-needed revival.

Trump plans reciprocal tariffs as global trade war fears mount

Donald Trump's trade advisers were finalising plans recently for the reciprocal tariffs the US president has vowed to impose on every country that charges duties on US imports, ratcheting up fears of a widening global trade war. Separately, trade ministers of the 27-country European Union were due to meet later by videoconference to determine their response after European Commissiion president Ursula von der Leyen said tariff moves against the bloc "will not go unanswered". Trump stunned markets with his decision of late to impose tariffs on all steel and aluminium imports beginning on March 12. The plans drew condemnation from Mexico, Canada and the European Union, while Japan and Australia said they were seeking exemptions from the duties. The news sent industries reliant on steel and aluminum imports scrambling to offset an expected jump in costs. Recently, Trump imposed an additional 10% tariff on Chinese goods, effective February 4. He delayed a 25% tariff on goods from Mexico and Canada for a month until March 4 to allow negotiations over steps to secure US borders and halt the flow of fentanyl. Some US workers welcomed Trump's metal tariffs, but many manufcturing-heavy firms expressed deep concern over the next steps, warning the tariff hike would reverberate across supply chains, affecting all businesses that rely on the materials. Executives from companies including supermarket chain Ahold Delhaize and Siemens Energy warned tariffs would lead to higher prices as they seek to pass on the extra costs of imports. Europe's steelmakers are also worried that U.S. tariffs will lead to a flood of cheap steel coming into Europe. French steelmaker Aperam urged Brussels to intervene to curb imports if that happened, while Austria's speciality steelmaker voestalpine called on the EU to take immediate countermeasures. Australia's industry minister meanwhile said the nation's plan to boost "green" aluminium exports would not be derailed by the threat of US tariffs. "The world has a high demand for our aluminium; we need it as part of the transition to net zero," Ed Husic told reporters at the National Press Club in Canberra. "The question is for our American friends do you really want to pay more for that product that you've got a big demand for?" ❐

UK inflation cools to 2.5%, misses estimate

Inflation in the UK unexpectedly fell in December, a move that will likely fuel pressure on the Bank of England to cut interest rates again shortly. The Office for National Statistics said recently that inflation, as measured by the consumer prices index, was 2.5% in the year to December, largely as a result of easing price pressures in the services sector, which accounts for around 80% of the British economy. That was down from 2.6% the previous month. Economists had expected no change in the annual rate. Though inflation has fallen, it remains above the Bank of England's target of 2%. Germany's economy shrank for the second straight year in 2024 as worried consumers held back on spending and Chinese competition ate into the country's traditional exports of cars and industrial machinery. The year's weak performance underlines Germany's status as Europe's worst performing major economy and shows the country as having no meaningful growth in the past four years as it has struggled to deal with major shifts in the global economy. ❐

Canada opts G-7 talks on metals pricing to counter China's sway

Canada wants its allies to explore a pricing floor for critical minerals to address what it views as market interference from China, the dominant supplier of metals key to the energy transition. Canada has been thinking about supporting investment through measures, such as pricing floors, to address alleged market manipulation, the country's Natural Resources Minister Jonathan Wilkinson said of late at an event

in Washington. Such measures should factor in an accounting of environmental and labour standards associated with production, he said. "We in Canada and in the United States are not going to go into a downward spiral on labour standards in order to compete with China," he said during the event, hosted by the Wilson Center. "But we need to acknowledge that we do have labour standards that do add costs — and so that has to be built into this conversation around pricing." China dominates mineral production and processing essential for Evs, batteries, solar panels and military tech. This has pushed the US and allies to seek alternatives and consider policies to reduce reliance on China. Wilkinson said he wants to work with other Group of Seven nations to make pricing support initiatives a possible "centrepiece" of discussions when Canada hosts the G-7 Summit in June. This could be expanded to other nations like Australia, he said, adding that nickel dumping has caused "enormous problems for our Australian friends". To build mines and secure resources, investors will need "some degree of certainty that the products that they're actually producing are going to have value at the end of its," Wilkinson said. "If China can simply intervene and crater the price, you will never see the development of the critical minerals that we have to." The Canadian Minister said he has had talks with the Biden administration as well as members of the US Senate and Congress, and he hopes to engage with Trump's team. Under Biden, officials had considered using federal funds to support US critical mineral projects, setting a price floor and then paying the difference when market prices fall below it in limited circumstances. ❐

US economy grew 2.5% in 2024

The US economy expanded at a solid pace at the end of 2024, fuelled by a generous tailwind from consumer spending that more than offset drags from a strike at Boeing Co and much leaner inventory investment. The US economy expanded 2.5 per cent in the fourth quarter compared with the same three months of 2023. Inflation-adjusted gross domestic product increased an annualised 2.3 per cent in the fourth quarter after using 3.1 per cent in the prior three-month period, according to the government's initial estimate publishd recently. The median forecast in a *Bloomberg* survey of economists called for a 2.6 per cent growth. Consumer spending, which comprises the largest share of economic activity, advanced at a 4.2 per cent pace — the first time since late 2021 that outlays have exceeded 3 percent in consecutive quarters. The acceleration was the biggest since early 2023 and was led by a pickup in motor vehicle sales. At the same time, a closely watched measure of underlying inflation rose 2.5 per cent, marking only the second quarterly acceleration since late 2022, the Bureau of Economic Analysis data showed. The economy grew 2.8 per cent in 2024 after expanding 2.9 per cent and 2.5 per cent in the prior two years, respectively. ❐

China expresses disappointment over US 'tariff shock' at WTO

China condemned tariffs launched or threatened by US President Donald Trump at a World Trade Organization meeting recently, saying such "tariff shocks" could upend the global trading system in a warning dismissed as hypocritical by Washington. Trump has announced sweeping 10% tariffs on all Chinese imports, prompting Beijing to respond with retaliatory tariffs and to file a WTO dispute against Washington in what could be an early test of Trump's stance towards the institution. "These 'Tariff Shocks' heighten economic uncertainty, disrupt global trade, and risk domestic inflation, market distortion, or even global recession," China's ambassador to the WTO Li Chenggang said at a closed-door meeting of the global trade body, according to a statement sent to Reuters. "Worse, the US unilateralism threatens to upend the rules-based multilateral trading system." US envoy David Bisbee took the floor in response, calling China's economy a "predatory non-market economic system". "It is now more than two decades since China joined the

WTO, and it is clear that China has not lived up to the bargain that it struck with WTO Members when it acceded," he said. "During this period, China has produced a long record of violating, disregarding and evading WTO rules," he added. ❐

Japan growth contracted to 0.1% in 2024 Despite Stronger Q4

Japan's economic growth slowed sharply in 2024, cabinet office data showed recently, although the rate for the fourth quarter beat market expectations thanks to strong exports. Annual GDP growth in the world's fourth largest economy was 0.1%, compared to 1.5% in 2023, the data showed. But the figures for October-December were more upbeat — quarter-on-quarter growth accelerated to 0.7% from 0.4% in the July-September period. The fourth-quarter figure was also more than double market expectations of 0.3% growth. A "megaquake" alert in August and one of the fiercest typhoons in decades had dampened activity during the third quarter. Ahead of the latest GDP data, the Daiwa Institute of Research said that "various growth factors are seen, including normalisation of production for motor vehicles". "Continued improvements in the income environment, a strong appetite for capex spending on the part of corporation, and a comeback for inbound consumption" were also positive factors, the institute said in a report. This time last year, Germany overtook Japan as the world's third-biggest economy, although India is projected to leapfrog both later this decade. The change in positions primarily reflected the sharp fall in the yen against the dollar, analysts said at the time. ❐

US Prez says lower interest rate would move along with tariffs

President Donald Trump called for lower interest rates, seeking to raise pressure on the Federal Reserve as he moves to implement a second-term economic agenda high on tariffs and expanding tax breaks. "Interest Rates should be lowered, something which would go hand in hand with upcoming Tariffs," Trump said recently in a post on Truth Social. His comments come ahead of testimony from Fed Chairman Jerome Powell before the House Financial Services Committee of late. He told senators there is no need to rush to adjust interest rates, a further signal that the Fed will be patient before lower borrowing costs again. Trump's comments mark a shift from his earlier remarks, when he indicated that the Federal Reserve had made the correct decision, saying that "holding the rates was the right thing to do." ❐

Japan wants exemption from US trade tariffs

Japan has asked to be exempted from the so-called reciprocals tariffs that Donald Trump plans to adopt this year as the Asian nation works to minimize any potential fallout. Foreign minister Takeshi Iwaya sought the country's exclusion from the tariffs when he met US secretary of state Marco Rubio during the Munich Security Conference, according to a transcript of the meeting dated 15 February released by Japan's foreign ministry. "I relayed my thoughts to Rubio that Japan should not be one of the countries subject to reciprocal tariffs," Iwaya was quoted as saying. He also raised the issue of automobile tariffs and sought exclusion from the 25% tariff the US will levy on imported steel and aluminium products. The remarks followed Trump's order to consider imposing reciprocal tariffs on numerous trading partners as soon as April, raising the prospect of a wider campaign against a global system he complains is tilted against the US. Trump has previously attacked Japan's trade surplus with the US and yen weakness that feeds into that imbalance and recently singled out Japan, as well as South Korea, as nations that he believe are taking advantage of the US. The Japanese governemnt had begun communicating with Washington over tariff matters, Japanese trade minister Yoji Muto said recently. ■

INDIAN ECONOMY AND TRADE TRENDS

PM emphasizes on value-added exports

Modi called on industries to support MSMEs and young startups, stressing the importance of research and innovation for growth. Modi said the expansion of India's economy rests on two major pillars: The innovative service sector and quality products. India is changing the trend of extracting minerals and sending them abroad for manufacturing and value addition, only to have those products returned to India, he said. Citing the success of recent "Coldplay" events in Mumbai and Admedabad, Modi said that with a vast pool of young talent and a massive concert audience, states such as Odisha India have great possibilities for a "thriving concert economy". With its 500-kilometre coastline, over 33% forest cover, and endless possibilities for eco-tourism and adventure tourism, Odisha has a supportive environment for the country's focus on "Wed in India" and "Heal in India" initiatives, he noted. "Today, India is moving on a path of development driven by the aspirations of crores of people. This is an era of AI, and everyone is talking about AI. However, the aspiration of India, not just AI, is the power of our country. Aspiration grows when the needs of the people are fulfilled. In the last decade, the country has witnessed the benefit of empowering crores of people," he said. India is building specialised infrastructure at unprecedented speed and scale. It will make India a great destination for investment," he said. "Eastern India is a growth engine for the country's development, and Odisha plays a key role in this," Modi said seeking the support of India Inc to set up industries in the state given abundant minerals and other raw materials. India was changing the trend of extracting minerals and sending them abroad for product manufacturing and value addition, only to have those products returned to India, he said. He highlighted that this responsibility lies with both the government and the industry. Modi also called on industries to support MSMEs and young startups, stressing the importance of research and innovation for growth. ❐

India may be benefited from US-China trade war

The restart of a tariff war between the United States (US) and China may have a positive impact on Indian exporters, as observed from the previous trade war during US President Donald Trump's first term. "When the trade war between the US and China took place last time, India was the fourth largest beneficiary of the trade diversion. Data shows that during the trade war (2017-19), there was a significant jump in exports to the US," a senior government official said. Days after taking over as Presient of the US, Trump recently announced a 25 per cent tariff on imports from its top two trade partners and neighbouring nations — Canada and Mexico — and a 10 per cent levy on Chinese imports. While Canada and Mexico retaliated, recently, a 30 day suspension on US tariffs was announced after reaching an agreement with Trump. However, China recently announced retaliation and said the country plans to impose higher tariffs on US imports. Trump's move is in line with its protectionist 'America First Trade Policy' that it plans to implement. The policy will include imposition of global 'supplemental tariffs' to tackle 'unfair and unbalanced trade'. An external revenue service (ERS) is being set up to collect tariff, duties and other foreign-related revenues. However, the official waned that going ahead, India may not be completely 'immune' from additional tariffs from the US, considering Trump's announcement of America's latest policy stance. Exporters have also stated that the imposition of Customs duties by the US on imports from China provides huge export opportunities for them. The tariffs would affect exports from China to the US as they would push up prices of their goods in the American market, making them less competitive. Officials said sectors such as electronics, pharmaceuticals, textiles, auto components and chemicals may see further export boost to the US due to the trade war between Washington and Beijing. ❐

IMF, World Bank retain India's FY25 growth at 6.5%

The International Monetary Fund (IMF) has retained India's GDP growth forecast to 6.5% for the current financial year, which is "in line with potential". According to the Fund's World Economic Outlook report for January, released recently, India's growth is projected to be "solid" at 6.5% in FY26 and FY27 as well, similar to what was projected in October. The IMF's estimate for the current fiscal year is 10 basis points (bps) higher than the National Statistical Office's projection (6.4%), but 20 bps lower than that of the Reserve Bank of India (6.6%). Separately, the World Bank (WB), too, recently projected India's economic growth at 6.5%, reflecting a slowdown in investment and weak manufacturing growth. The report said that the global economy is holding steady, although the degree of grip varies widely across countries. "Global GDP growth in the third quarter of 2024 was 0.1 percentage point below that predicted in the October 2024 WEO, after disappointing data releases in some Asian and European economies," noted the report. Growth in India also slowed more than expected, led by a sharper-than-expected deceleration in industrial activity. In Q2, the country's GDP growth came in lower-than-expected at 5.4%. Growth in China, at 4.7% in year-over-year terms (in Q2 2024), was below expectations, said the IMF. Faster-than-expected net export growth only partly offset a faster-than-expected slowdown in consumption amid delayed stabilisation in the property market and persistently low consumer confidence, it added. By contrast, momentum in the United States remained robust, with the economy expanding at a rate of 2.7% in the third quarter, powered by strong consumption, the report noted. ❐

US reciprocal tariffs to have less impact on India : S&P

India will be less impacted by the proposed US reciprocal tariff as the country's economy is mainly driven by domestic demand, and has substantial services exports, which is not going to be targeted by the Trump Administration, S&P Global Ratings said recently. US President Donald Trump has announced he will impose reciprocal tariffs on its trading partners, including India. Vishrut Rana, economist Asia-Pacific, S&P Global Ratings, said the reciprocal tariff will hurt countries like Vietnam, South Korea, Taiwan more as they have high trade surplus with the US. The Indian economy has two mitigating factors — greater reliance on domestic economy and larger services trade with the US, which is not likely to be tariffed. In Japan also, there are similar mitigating factors – greater reliance on services trade, and domestically-driven economy. "... which means (US) trade measures might be less impactful there (India and Japan)," Rana said at the S&P Asia-Pacific Credit Focus webinar. He also said that reciprocal tariffs may fuel inflationary expectations, thus leading to higher interest rates globally. S&P Global Ratings director, Sovereigns (Asia-Pacific), YeeFarn Phua also said India's economy is largely still domestic-oriented and the nature of the exports to the US is more on the services side, which is less prone to tariffs. ❐

Flows of NRI deposits hit 71%

The flow of money from Overseas Indians in non-resident Indian (NRI) deposit schemes rose by 71 per cent to $12.5 billion between April and November 2024 from $7.30 billion that they put in these schemes during the same period in 2023, data released by the Reserve Bank of India (RBI) showed. The total outstanding NRI deposits as of November 2024 stood at $162.69 billion, RBI data showed. The NRI deposit schemes include foreign currency non-resident (FCNR) deposits, non-resident external (NRE) deposits, and non-resident ordinary (NRO) deposits. During the April-November, 2024 period, maximum flows came into FCNR (B) deposits. According to RBI data, about $6.3 billion flowed into these accounts during this period, compared to $2.5 billion in the corresponding period a year ago. The outstanding amount in FCNR (B) accounts stood at $32.04 billion. NRE deposits witnessed an inflow of $3.4 billion during this period, compared to an inflow of $2.31 billion in the corresponding period a year ago. The outstanding NRE deposits now stand at $100.66 billion in November, 2024. ■

Textile Branders : Indian customers become ready for any price point product

It's the opening day of Bharat Tex — the mega textile trade fair at Bharat Mandapam, in New Delhi. The attractively designed Trident pavilion is buzzing with visitors. The ₹6,808 crore home textile, yarn, paper and chemicals company's founder Rajinder Gupta, his son Abhishek, and daughter Neha Gupta Bector are busy in meetings with buyers. Amidst the range of bed linen and towels, the upscale Luxe-Home section by myTrident, the domestic arm of the Ludhiana-headquartered textile exporters, catches the eye. myTrident is weaving an ambitious growth strategy around the new super-luxury line that was launched at the fair.

NextGen is clearly makign its presence felt. While Abhishek is entrenched in the export-focused Trident group, myTrident, which is a separate entity, is Neha Bector's responsibility.

The 34-year-old is married into the Bector family, known for its Cremica and English Oven brands, and has spent several years working in the FMCG set-up. "I learnt a lot about the differences in outlets, how a customer is being serviced, the dynamism of the product, competitive pricing, brand building, the narrative of the brand," she says.

"After Bombay Dyeing, there's been no other home textile brand that is as big a household name." She aims to fill that space.

Segmented Strategy

Bector says the Indian consumer is becoming more aware about aspects such as thread counts and so on. myTrident is taking heed. "We have an opening price point brand called Everyday, where we do a 400 GSM (grams per square metre) towel and a 144 thread count bedsheet; and we have another brand called Home Essential, where we do a 450 GSM towel." At a more premium level is the Classic brand, which has 550 GSM towels and 210 thread count bedsheets. "The Classic bath towel is, I think, the best selling in the country today."

The brand has two luxury ranges – Indulgence and NectarSoft — which offer 300-400 thread count bedsheets and towels of 600-700 GSM. "Now we've launched a super-luxury range called LuxeHome, because some retailers told us that Indian consumers are ready for any price point product, as long as it is the best in the world."

This includes Turkish towels, bamboo cotton towels, Egyptian lyocell bedsheets and 600-plus thread count bedsheets.

The Designer Range

Prominently displayed at the Trident pavilion are designer duo Shivan-Narresh's creations. The designers, famous for their holiday and resort wear, are explaining the inspiration to visitors. "The idea is to push the boundary in home textiles," says Narresh, pointing to a cheery holiday print inspired from a trip to Finland. "If we can transport people on a holiday right in their bedrooms, then, as a holiday wear brand, we have been successful."

Bector says the company has its own team of over 40 talented designers but decided to attempt something radically different. "Tobreak the clutter, we experimented with Shivan-Narresh last year," she explains. "They were bright, vibrant bedsheets and they flew. So much so, there was nothing left to put in my house," she rues.

The brand aims to onboard one new big name this year, she says, with myTrident also looking at ethnic craft traditions and freelance designers to break "our design mould and get a fresh perspective".

Luxe and Ecomm Push

On the brand's bet on luxury, Bector says, "Luxury for us, the year before last, was about 12 per cent of the protfolio. Last year it went up to 16-17 per cent. I hope this year we touch about 20 per cent." She says the company is seeing more growth in the premium segment rather than the mass segment.

"The consumption, overall, has been a little low and, after Diwali, there was a significant lull, but premium has retained its share. The end of quarter three and quarter four had been quiet. But what compensated was ecommerce and quick commerce," says Bector.

"We are selling about 15,000 bedsheets and towels overall on quick commerce platforms. We are among the top ten sellers of bedsheets on Amazon, Myntra and Ajio," she says Ecommerce contributes 15 per cent of myTrident's turnover.

Amping up brand presence

"We are large spenders on digital. We have a great D2C website, so a lot of the call-to-action takes the consumer directly to the product on the website," says Bector. myTrident also invests in massive outdoor campaigns. "We were in (reality TV show) *Big Boss* last year. The main bed on the show was done by us."

"It takes years to create a brand," admits Bector, "and every year we are doing a bit more." ■

E-Land Apparel's bid to convert debt into equity to foreign parent gets stumble to SEBI's norms

An Indian listed company's proposal to issue a single share at a significant premium to its foreign parent in lieu of an unfulfilled export advance by the parent has hit a regulatory hurdle.

E-Land Apparel, a firm listed on the BSE, had an agreement with its parent E-Land Singapore, to supply garments under a long-term contract. The company received an advance payment of $45 million, or ₹289 crore, from E-Land Singapore between 2016 and 2018. However, due to financial struggles, it falled to fulfil its export obligations, and about $44.89 million remains unpaid.

Since the company cannot supply the goods or repay the advance, it proposed to convert this liability into equity by issuing one share at a significantly high premium to E-Land Singapore.

It sought SEBI's informal guidance on two key points. First, whether the issuance of equity shares against export advance repayment that deal with preferential allotment. Second, if issuing a single share at a significant premium complies with SEBI norms on pricing.

SEBI opined that this transaction does not fall under Regulation 163(3) because that rule allows issuing shares for "consideration other than cash" only in cast of a share swap while E-Land Apparel was proposing to issue shares in settlement of an outstanding liability.

"SEBI rightly observed that such kind of transaction does not fall under 'issue of shares for consideration other than cash'. Under existing rules, only share swaps fall under the issue of shares for consideration other than cash. However, the question with respect to the issue of one equity share at an exorbitant premium remains unanswered," said Gaurav Pingle, a practising Company Secretary. Under the Companies Act, SEBI ICDR Regulations, and FEMA NDI Rules, issuance of shares to a non-resident on a preferential basis above the floor price is permissible, according to Binoy Parikh, Executive Director, Katalyst Advisors.

However, in this case, the issuance of a single share at a significant premium effectively amounts to a write-back of liability without being classified as such.

A few key concerns could have arisen had SEBI approved the transaction, said Parikh. First, under FEMA, prior RBI approval may be required, as export advance refunds are permitted only under specific conditions, while conversion into equity is not an automatic route.

Second, from a tax perspective, the absence of commercial substance in issuing shares at such a premium could lead to the transaction being treated as a taxable write-back in the Indian company's hands. Given the associated party nature of the transaction, justifying arm's-length pricing under transfer pricing regulations could be a significant challenge. ■

CCI may buy over 100 lakh bales at MSP

The Cotton Corporation of India (CCI) is likely to buy more than 100 lakh bales of cotton at minimum support price (MSP) during the current cotton year ending on September 30.

CCI had purchased almost 88 lakh bales since the beginning of the cotton season on October 1, 2024 and would continue to be active in the market, Lalit Kumar Gupta, CMD, CCI, told.

Daily arrivals used to be about 2.5 lakh bales and this had reduced to almost 1.75 lakh bales now. In Maharashtra and Gujarat, only 55%-60% of the cotton produced had come to the market. In Andhra Pradesh and Telangana, the arrivals are almost over, he said, adding out of the total arrivals, the CCI was buying almost 60,000 bales.

The committee on cotton production and consumption estimated total output this year at 300 lakh bales of which 210 lakh arrived in the market. International cotton prices improved recently and the CCI was likely to decide shortly how it would liquidate the cotton stocks with it. ■

CAI revises upwards its projection of cotton output, offtake

The Cotton Association of India, the apex trade body for the fibre crop, has revised upwards its crop projections by 2 lakh bales (of 170 kg each) from its earlier estimates for the crop year 2024-25 ending September.

The trade body also pegged the consumption to be higher by two lakh bales, based on emerging market trends.

Pertaining to the feedback from various member associations in the key cotton producing States, CAI, in its latest projections, pegged the output to be around 304.25 lakh bales — about 2 lakh bales higher than its earlier projections.

This is mainly on account of higher-than-expected output in Telangana, where the projections were revised upwards by 6 lakh bales.

Production Telangana

Production in Telangana is now seen to be higher by 6 lakh bales at 42 lakh bales while in North India, the output is expected to decline by 3.5 lakh bales.

Total supplies till end December were estimated at 175.04 lakh bales, including the pressing figures of 133.85 lakh bales, imports of 12 lakh bales and opening stock of 30.19 lakh bales.

Consumption till end-December stood at 84 lakh bales while exports of 7 lakh bales are estimated to have taken place. December-end stocks are estimated at 84.04 lakh bales.

Atul Ganatra, Chairman, CAI, said the consumption estimate for the 2024-25 season has been increased by 2 lakh bales to 315 lakh bales on pick-up in demand.

The cumulative market arrivals of cotton as per the data collated by CAI stood at over 156 lakh bales as on January 22, exceeding half of the estimated crop size of 304.25 lakh bales.

The daily market arrivals are over 1.5 lakh bales, with large arrivals recorded in Maharashtra and Gujarat. Arrivals are seen tapering in Telangana and Karnataka, among other States.

Prices range-bound

Ramanuj Das Boob, a sourcing agent in Raichur, said the prices are range-bound and hovering in the range of ₹53,000-₹54,000 per candy (of 356 kg).

Demand has not picked up as mills are still buying on need basis, covering their requirement and stocking for only two to three months, he said.

With the Cotton Corporation of India (CCI) emerging as the biggest buyer and procuring a major chunk of the market arrivals, mills are aware of the fact that the State-run entity is holding huge stocks and are not seen to be in a hurry to buy and stock the fibre crop.

Das Boob said the exports of cotton are taking place mainly to Bangladesh but not in full speed. "Cotton from Maharashtra is mainly going to Bangladesh," he said.

Of the total market arrivals of 156 lakh bales, about half the quantity is estimated to have been procured by CCI. ■

Textile investments turn around says Textile Commissioner Rashi

Investments in the textile sector that were sluggish for the last couple of years have revived, Textile Commissioner Roop Rashi said in Mumbai recently.

Speaking on the sidelines of the inauguration of the three-day Global Textile Technology and Engineering Show Ms. Rashi said several textile and apparel companies that had taken part in the recently-concluded Bharat Tex in New Delhi said they were making investments.

Indian textile machinery manufacturers should leverage the strengths in textile engineering and localise textile machinery for all segments of the supply chain, she said.

"We should have sustainable, circular textiles," the Commissioner said.

On cotton production during the cotton season 2024-2025, she said it was estimated that there would be almost 29 lakh bales of surplus cotton this season.

So, the textile sector is not likely to face any shortage of cotton, she added.

Ketan Sanghvi, chairman of the India ITME Society, said the GTTES, with 210 participants from India and other countries, focused on post-spinning segments, including weaving preparation, weaving, printing, processing and technical textiles.

"A lot of investments are happening in technical textiles and the demand is also high for upgraded technology in weaving machines. The ecosystem for the weaving sector should improve to be on pare with the spinning segment. There should be more manufacturers of motors, drives," he said.

He also said the Centre had approved duty-free import of shuttle-less looms with a few conditions. While it gave thrust to indigenisation and foreign direct investments, allowing duty-free imports is unlikely to incentivise local manufacturing, he said. ■

Rickshaw Tour in Ahmedabad acquaints with traditional textiles

The walled city of Ahmedabad is an architectural marvel in itself. The Sultanate style, considered a high point of architectural heritage, along with the Jain, Swaminarayan and Hindu temples of the city, makes it a veritable safari of monumental architecture attracting tourists from across the world.

There are several curated tours to experience this city. The House of MG (short for The House of Mangaldas Girdhardas), a steady 20th-century mansion that has been converted into an urban heritage hotel, for instance, organises a 'rickshaw tour' to explore the walled city's bylanes. From *havelis* and mosques to museums and gates, you can see some hidden marvels of the area.

Another highlight of the tour is the opportunity to witness the making of *bahikhatas* (*mojari* and *murar*), traditional accounting books used by traders in Gujarat and recognisable by their distinct dark-red cloth covers. In order to keep in tune with the times, these books have now diversified to include shiny, colourful satin covers for the modern-day tourist.

For handmade and traditional textile art, you can head to the century-old family mansion of textile industrialist Mangaldas Girdhardas. It houses textiles, silver and jewellery galleries of Mangaldas family heirlooms in Ahmedabad. Visitors can make prior appointments to visit the gallery situated in one part of the mansion, while another part has been converted into a boutique hotel by the great grandson of Mangaldas Girdhardas, Abhay Mangaldas.

The place also houses rare treasures of Gujarat's textile covering multiple techniques, materials and practices in the state. The three textile galleries — vintage textiles, garments and home décor accessories — from the personal collection of Abhay's paternal grandmother and his mother, who had a deep love for hand-made textiles, have a selection of rare saris and shawls of antiquity woven and crafted in the early 20th century, and the Kani pashmina shawls from Kashmir.

For history buffs, there is another architectural marvel, Bohrawad in Kapadvanj near Ahmedabad and the Bohra settlements of Siddhpur in north Gujarat, complete with havelis in elements of European, Islamic, and Indian design with delicate detailing in doorways, staircases, floors, and ceilings. Go and watch the construction that dates back to the Dawoodi Bohras — a Shia Muslim community who migrated from Yemen in the 18th century. ❐

Facing different challenges of packaging centre moves court for exemption from 20% jute packaging

The Department of Food and Public Distribution, under the Ministry of Consumer Affairs, Food and Public Distribution, has informed the Calcutta High Court that sugar mills and sugar industry associations are facing different challenges with jute packaging of sugar, and sought exemptions from compulsory jute packaging for 20 per cent of the total sugar production.

The Indian Jute Mills Association (IJMA), which is in favour of continued implementation of the Jute Packaging Materials Act (JPM), is expected to analyse the submission of the Department of Food and Public Distribution, and respond to the same in the next hearing.

IJMA filed a writ petition in the High Court last year against the Union of India and its agencies, seeking strict enforcement of the JPM Act, 1987.

The petition alleged massive non-compliance by sugar mills and private foodgrain procurers, causing severe losses to the jute industry.

It also allged negligence of government agencies, including the Jute Commissioner's Office (JCO) and the Ministry of Consumer Affairs, Food and Public Distribution (DFPD) in taking legal action against the violators.

In their latest submissions before the High Court recently, DFPD and the Directorate of Sugar said that industry associations and sugar mills, in their various representations, had highlighted different challenges of jute packaging.

"Sugar has inherent properties that make it susceptible to moisture absorption. Jute bags have a higher tendency to attract and retain moisture, which poses a significant risk to the quality and integrity of sugar stored within these bags," the sugar mills said. Moisture could lead to the clamping and caking of sugar, rendering it unfit for human consumptions, the mills said.

They added that there were cases of non-acceptance of sugar packaged in jute bags by bulk consumers like Pepsi and Coke due to the mixing of the jute fibres in the sweetener. It was submitted that as on December 31, 2023, only three licensed suppliers of BIS-standard jute bags were available, making it difficult for the jute industry to meet the sugar industry's high demand. It was also submitted that about 70 per cent of the total production in a sugar season was consumed by bulk buyers/processors, who had shown their reluctance in procuring sugar packaged in jute bags due to quality deterioration of the product. ■

How a hi-tech revolution in weaving took place in Ichalkaranji

When the first powerloom began operating in Ichalkaranji in 1904, no one could have imagined that this nondescript textile town in Maharashtra will evolve into an automation powerhouse.

Today, in this Little Manchester of Maharashtra, handlooms and powerlooms are giving way to cutting-edge shuttle-less looms, weaving a future driven by technology and precision.

This shift was on full display at Bharat Tex 2025 held in New Delhi. When Prime Minister Narendra Modi stepped into the Ichalkaranji pavilion, he was met by a story of reinvention. The town's textile ecosystem has transformed dramatically, with over 15,000 fully automated shuttle-less looms now producing high-quality fabrics with minimal human intervention. In addition to 1,000 auto looms and 80,000 manually operated powerlooms, these machines spin out an astonishing 1.5 crore metres of fabric daily, valued at ₹50 crore.

From cotton and dyed yarns to exquisite Dobby, Jacquard and non-woven fabrics, Ichalkaranji's manufacturers weave a wide range. With a population of over 3.5 lakh, the town pulses with the energy of its 80,000 textile workers.

Ichalkaranji is not just a textile town — it is a self-sustaining industrial eco-system. Training institutes equp workers with the latest skills, specialised mechanics ensure looms run smoothly, and a network of traders fuels the industry's momentum. Every aspect of the supply chain is well-embedded in the town's economic fabric, say Basant Mantri of Bhagwati Textiles and Sunil Bangad of the Bangad Group, the NewGen textile players. "The direct and indirect investment here stands at a colossal ₹75,000 crore," says Anil Goyal, President, Ichalkaranji Shuttleless Fabrics Manufacturers Association.

Across India, leading textile brands depend on Ichalkaranji for their fabric needs, though the town remains unsung. Industrialist Ravishankar Panchloriya identifies the missing link — textile processing infrastructure. "We have the potential to create world-class finished textiles and establish our own brands," he explains. "But the cost of setting up a common effluent treatment plant and zero liquid discharge facility is astronomical." So, the town is forced to export raw fabric, letting others reap the benefits of its production. ■

Arvind Fashion looking to scale up its largest brand US Polo

Arvind Fashions, the ₹4,300-crore branded apparel arm of the Arvind group, is looking to scale up its largest brand US Polo in the next few years. In a conversation with *FE*, Kulin Lalbhai, vice-chairman and executive director, said that the company was eying a topline of ₹3,000 crore for US Polo in 3 years from ₹2,000 crore now.

The company is also looking to beef up its footwear portfolio, by manufacturing sneakers under the US Polo umbrella in the future. Lalbhai did not specify a timeline for the same, but said the company has the capabilities to undertaken sneaker manufacturing, given its exposure to fashion and footwear.

India is the third-largest market for US Polo, the official apparel brand of the US Polo Association, after its home market (US) and Turkey. India contributes over 15% to the global revenue of the brand.

"The broader agenda would be to make US Polo a ₹5,000-crore brand in 5 years. But in the near term, a ₹3,000-crore target should be achievable given the double-digit pace of growth of the brand," Lalbhai said.

US Polo, on an average, has been growing at around 15-20% per annum on the back of category expansion, a growing online and offline presence and new collections. The company has over 450 exclusive brand outlets of US Polo in the country, with plans to increase this number to over 500 in the coming months.

While the retail market has been muted in FY25, Lalbhai said he hopes to see demand conditions improve in the next fiscal (FY26). The company has also maintained its revenue growth target of about 15-20% for the coming year.

At present, the brand, which has a presence in men's, women's and kid's wear under US Polo, is concentrating its attention on the women's wear category which was relaunched in 2023. Men's wear, in contrast, remains its mainstay, while the kid's segment is small. ■

IMPROVING GARMENT FACTORY PRODUCTION EFFICIENCY THROUGH AUTOMATION

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ABSTRACT

Automated technologies and processes are becoming increasingly popular in the garment industry, offering businesses a range of benefits including reduced labour costs, improved accuracy, increased productivity, and improved customer experience. Automated cutting technology, automated sewing machines, automated material handling systems, automated quality control systems, automated barcode scanning, and inventory management software can all help businesses remain competitive in the ever-changing industry. These technologies can increase efficiency, reduce costs, and improve quality, allowing businesses to succeed.

KEYWORDS : Automation, Inventory, Barcode, Efficiency, Manpower.

1. INTRODUCTION

The use of automated technologies and processes in the garment industry is becoming increasingly popular, as they offer a range of benefits including reduced labour costs, improved accuracy, increased productivity, and improved customer experience. Automated cutting technology, automated sewing machines, automated material handling systems, automated quality control systems, automated barcode scanning, and inventory management software are all examples of automated technologies that are being utilized in the garment industry. These technologies have the potential to increase efficiency, reduce costs, and improve quality, allowing businesses to remain competitive in the ever-changing garment industry. In this article, we will discuss the benefits of automated technologies in the garment industry and how they can help businesses succeed.[1]

2. MATERIALS AND METHODS

2.1 AUTOMATED CUTTING TECHNOLOGY

Automated cutting technology is becoming increasingly popular in the garment industry. It is a technology that uses computer-controlled systems to cut fabric, allowing for precise cutting with minimal waste and labour. Automated cutting technology is used in a variety of ways, including cutting garments to size, creating patterns, and trimming fabric. Automated cutting technology is becoming an essential tool in the garment industry, providing faster and more accurate cutting, reducing labour costs, and creating consistent and perfect results. Automated cutting technology also increases efficiency, allowing for faster production times and lower error rates.

Automated cutting technology uses lasers, water jets, and computer-controlled cutting machines to precisely cut fabric and other materials. This advanced technology provides consistent and accurate cutting results and reduces fabric waste, making it ideal for mass production. It also saves time, allowing manufacturers to produce garments more quickly and efficiently. Automated cutting technology also increases safety, as it reduces the risk of human error. Additionally, automated cutting technology is more cost-effective than manual cutting, as it requires fewer workers and less time to complete the same job. Finally, automated cutting technology can be used to create complex patterns, which can lead to more intricate and stylish designs for clothing.

2.1.1 Benefits of Automated Cutting technology in the garment industry

1. **Increased Efficiency :** Automated cutting technology allows garment industry to increase their efficiency and productivity by eliminating manual labor and reducing time spent on cutting tasks.
2. **Cost Reduction :** Automated cutting technology reduces labor costs associated with manual cutting. This allows garment industry to reduce their costs and be more competitive in the market.
3. **Improved Quality :** Automated cutting technology produces consistent and accurate cuts which improves the overall quality of the garments.
4. **Increased Safety :** Automated cutting technology eliminates the risk of injury associated with manual cutting and reduces the need for additional safety equipment.
5. **Increased Production Capacity :** Automated cutting technology allows garment industry to increase their production capacity and meet customer demands in a timely manner.

2.2 AUTOMATED SEWING MACHINES

Automated sewing machines are becoming increasingly popular in the garment industry. These machines are capable of performing a wide range of sewing operations with the use of computerized control systems, eliminating the need for manual labour. Automated sewing machines are designed to be more efficient and accurate than manual machines, which can help reduce costs and increase production. Automated sewing machines can also reduce the need for workers, allowing garment factories to operate with fewer personnel and lower labour costs. In addition, automated sewing machines often feature specialized features that are not available on manual machines, such as automated thread tension control, pattern recognition, and automatic needle alignment. Automated sewing machines are also capable of sewing intricate designs quickly and accurately, which can help improve product quality and speed up production times.

Pattern recognition is a feature available on some automated sewing machines that enables the machine to recognize patterns in a garment and adjust the settings accordingly. This feature allows the machine to automatically recognize patterns such as stripes, plaids, and other intricate designs, which can be difficult to replicate manually. With pattern recognition, the machine can adjust the settings for the stitch length, tension, and other settings to ensure that the design is replicated accurately. This feature can help to improve product quality, reduce production time, and eliminate the need for manual labour.[10,15]

2.2.1 Benefits of Automated Sewing Machines in the garment industry

1. **Improved Accuracy :** Automated sewing machines are able to produce precise and consistent stitches, leading to fewer errors in the finished product. This can help to increase the overall quality of the garments.
2. **Increased Efficiency :** Automated sewing machines enable garment manufacturers to increase production speed and accuracy while reducing the amount of labour needed to operate the machines. This can result in significant cost savings for the company.
3. **Improved Safety :** Automated sewing machines eliminate the need for manual labour which can be dangerous in the garment industry. This can help to reduce the risk of injury and illness in the workplace.
4. **Reduced Labour Costs :** Automated sewing machines can help to reduce labour costs by eliminating the need for manual labour. This can result in significant cost savings for the company.
5. **Increased Productivity :** Automated sewing machines allow for a higher level of productivity, as they can produce more garments in a shorter amount of time. This can help to increase the overall output of the garment industry.

2.3 AUTOMATED MATERIAL HANDLING SYSTEMS

Automated material handling systems in the garment industry can include a variety of systems and processes, including automated conveyor systems, automated storage and retrieval systems, automated sorting systems, and automated garment identification systems. Automated conveyor systems are used to move materials from one location to another within a facility. Automated storage and retrieval systems allow for the automatic sorting, retrieval, and storage of garments, as well as the automated transfer of garments between different stations. Automated sorting systems are used to sort garments into specific sizes and colors, and automated garment identification systems are used to track and manage inventory levels. Automated material handling systems can also include automated material handling software, which is used to track and manage inventory levels, orders, and shipments.

Automated material handling systems can help streamline the garment manufacturing process, increasing efficiency and reducing costs. These systems can also help reduce labour costs, as they are capable of performing many of the labour-intensive tasks that would otherwise require manual labour. Automated material handling systems can also help improve product quality, as they can help ensure that garments are sorted into the correct sizes, colors, and styles. Additionally, automated material handling systems can help reduce waste, as they can help eliminate the need for excess materials.

2.3.1 Benefits of Automated Material Handling Systems in the garment industry

1. **Increased Agility :** Automated material handling systems help increase the speed and agility of the garment industry. Automated systems can quickly move materials and products through the supply chain, allowing companies to be more flexible and responsive to customer needs.
2. **Improved Accuracy :** Automated systems can help reduce errors and increase accuracy in the garment industry. Automated systems can detect errors and take corrective action while tracking and managing inventory. This can help reduce costs associated with inaccurate orders, reduce stockouts, and improve customer satisfaction.
3. **Increased Productivity :** Automated systems can help increase efficiency and productivity in the garment industry. Automated systems can help reduce time spent on manual processes, allowing for faster turnaround times. This can help increase production capacity and reduce production costs.
4. **Reduced Labour Costs :** Automated systems can help reduce labour costs in the garment industry. Automated systems can reduce the need for manual labour, helping companies to reduce labour costs and increase profitability.

2.4 AUTOMATED QUALITY CONTROL SYSTEMS

Automated quality control systems are becoming increasingly popular in the garment industry. These systems use technology to streamline the quality control process, helping to reduce costs, improve accuracy, and improve efficiency. Automated systems can be used to monitor and control fabric, yarn, and garment quality, from the raw material stage all the way to finished product. Automated systems can detect fabric defects, including texture, color, and weave variations; identify fabric and garment quality issues, including shrinkage, abrasion, tear strength, and colorfastness; and even inspect for trims, zippers, and buttons. Automated systems can also be used to track production and inventory, as well as delivery and shipping. By using these systems, businesses can ensure that their products meet customer quality expectations, while reducing costs and improving efficiency.[8]

2.4.1 Benefits of automated quality control systems in the garment industry include

1. **Increased accuracy :** Automated systems are capable of detecting defects much more accurately than manual inspections. This means fewer defects in the final product, and fewer returns or complaints from customers.
2. **Reduced costs :** Automated systems can reduce labor costs associated with quality control, as fewer people are required to monitor the process.
3. **Improved efficiency :** Automated systems can reduce the time it takes to inspect a garment, as well as the time it takes to identify and fix a defect. This can help to reduce lead times and increase production efficiency.
4. **Improved traceability :** Automated systems can provide detailed records of each garment's production and quality, making it easier to trace any defects or problems. This can help to reduce the risk of recalls or product liability claims.

2.5 AUTOMATED BARCODE SCANNING

Automated barcode scanning is increasingly being used in the garment industry to improve efficiency and accuracy of inventory management. This technology is used to quickly and accurately read barcodes on garments, which can then be used to track inventory levels and ensure that items are in stock when needed. Automated barcode scanning can also be used to track orders, manage returns, and maintain accurate records of garment shipments and deliveries. Additionally, this technology can be used to monitor production and quality control, and to identify defective items. The use of automated barcode scanning in the garment industry offers a number of benefits, including improved efficiency, accuracy, and cost savings.[5]

By automating the scanning process, garment manufacturers can save time and money that would otherwise be spent on manual scanning. In addition, automated barcode scanning reduces the possibility of human error, improving accuracy and preventing mistakes that can cause lost revenue. Finally, the use of automated barcode scanning makes it easier to track inventory levels and to quickly identify any discrepancies between the actual inventory and what is indicated in the system. Automated barcode scanning can help garment manufacturers

to improve the overall efficiency of their operations, while saving time and money.[3]

2.5.1 Benefits of Automated Barcode Scanning in the garment industry

1. **Increased Accuracy :** Automated barcode scanners allow for increased accuracy of inventory tracking and order fulfilment, resulting in fewer errors and greater customer satisfaction.
2. **Improved Efficiency :** Automated barcode scanners can significantly reduce labour costs associated with manual data entry and processing, increasing efficiency and reducing overhead costs.
3. **Increased Visibility :** Automated barcode scanners provide real-time visibility into the entire supply chain, allowing for better planning and inventory management.
4. **Enhanced Security :** With automated barcode scanners, businesses can ensure that all garments are properly tagged and tracked throughout the supply chain, reducing the risk of theft and counterfeiting.
5. **Improved Customer Experience :** Automated barcode scanners make the checkout process faster and more efficient, which can improve customer satisfaction and lead to increased sales.

2.6 INVENTORY MANAGEMENT SOFTWARE

Inventory management software is a computer program that helps businesses monitor and manage their stock of goods. In the garment industry, inventory management software can help businesses track and manage their inventory of fabrics, threads, and other materials used in the manufacturing process. It can also help businesses manage their stock of finished products and keep track of sales and orders. This type of software can provide real-time visibility into the inventory levels of clothing and accessories, allowing businesses to better manage their stock levels and prevent costly overstocks. With the help of inventory management software, businesses can keep track of their stock levels, analyze sales trends, and plan for future orders.

In addition to tracking and managing inventory, inventory management software can also provide features to help businesses improve efficiency. For example, the software can generate reports to help businesses identify areas for improvement and make better decisions about stock levels. Businesses can also use the software to set up automatic notifications when stock levels reach certain thresholds, allowing them to order new items in time to meet customer demand. Moreover, the software can be used to track the performance of different suppliers, helping businesses identify the best sources for their materials.[7,9]

2.6.1 BENEFITS OF INVENTORY MANAGEMENT SOFTWARE

1. Improved Accuracy: Inventory management software can help to reduce errors caused by manual data entry, ensuring that your inventory records are accurate and up to date.
2. Increased Visibility: By providing real-time updates on inventory levels and tracking product movements, garment industry inventory management software can help you keep a better eye on your stock.
3. **Improved Efficiency :** Automated inventory processes can save time and reduce labour costs, allowing you to focus on other areas of the business.
4. **Reduced Fraud :** Automated inventory tracking can reduce the risk of fraudulent activity.
5. **Automated Reordering :** Inventory management software can keep track of stock levels and notify you when it is time to place an order for new products.
6. **Streamlined Supply Chain :** Automated inventory tracking can help to optimize the supply chain and ensure that products are delivered on time.
7. **Improved Customer Service :** Accurate inventory tracking can ensure that you have the right products in stock, leading to better customer satisfaction.

3. RESULTS AND DISCUSSION

The garment industry is rapidly embracing automated technologies and processes to increase efficiency and reduce costs. Automated cutting, sewing, material handling, quality control, barcode scanning, and inventory management systems are becoming increasingly popular in the garment industry, as they provide businesses with a number of benefits. Automated cutting technology can reduce labour costs and increase accuracy, while

automated sewing machines can help reduce the need for manual labour and increase productivity. Automated material handling systems can streamline the production process, while automated quality control systems can help to ensure that garments meet customer quality expectations. Finally, automated barcode scanning and inventory management software can help businesses track and manage their inventory, reducing the risk of overstocks and improving customer service.[2]

Overall, the use of automated technologies and processes in the garment industry can help businesses increase efficiency, reduce costs, and improve quality. By investing in these technologies and processes, businesses can ensure that they are able to remain competitive in the ever-changing garment industry.

4. CONCLUSION

In conclusion, the use of automated technologies and processes in the garment industry offers a range of benefits, including increased efficiency, cost reduction, improved quality, increased safety, and increased production capacity. Automated cutting, sewing, material handling, quality control, barcode scanning, and inventory management systems can all help businesses in the garment industry to remain competitive and successful. By investing in these technologies, businesses can ensure that they are able to remain competitive and keep up with the changing demands of the garment industry.

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DEVELOPMENT OF BIODEGRADABLE WOUND DRESSINGS FROM TANNER'S CASSIA NANOPARTICLES: A GREEN APPROACH TO DIABETIC WOUND MANAGEMENT

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ABSTRACT

Nanotechnology offers innovative solutions for wound care, combining advanced functionalities with bioactive compounds from natural sources. This study focuses on biodegradable bandages infused with encapsulated nanoparticles derived from Tanner's Cassia (Avarampoo) rind, leveraging its antimicrobial and healing properties. The nanoparticles are synthesized using green methods and encapsulated with biocompatible polymers, ensuring stability, controlled release, and enhanced bioavailability. These bandages demonstrate significant antimicrobial activity against pathogens like Staphylococcus aureus and Escherichia coli, alongside strong biocompatibility and accelerated wound healing, as confirmed by cytotoxicity and in vitro studies. The sustained release of bioactive compounds reduces infection risks while mimicking the extracellular matrix to support tissue regeneration. This eco-friendly approach integrates traditional medicine with cutting-edge nanotechnology, providing a cost-effective alternative to conventional wound dressings with potential for large-scale application and further clinical advancements

(**Keywords:** Tanner's Cassia, nanoparticles, encapsulation, wound healing, nanotechnology, regenerative medicine, bioactive materials.)

INTRODUCTION

Wound healing is a crucial physiological process that restores tissue integrity, involving a complex sequence of hemostasis, inflammation, proliferation, and remodeling. However, various factors such as infections, chronic conditions like diabetes, and environmental stress can hinder the healing process, necessitating effective wound care solutions. Conventional treatments often face limitations like poor antimicrobial efficacy, biocompatibility, and environmental concerns related to synthetic materials. The rise of antibiotic-resistant pathogens emphasizes the need for innovative strategies combining infection control and enhanced healing properties. Nanotechnology, particularly through natural compounds, offers a promising solution. Nanoparticles synthesized from plants like Tanner's Cassia (Avarampoo) are rich in bioactive compounds such as flavonoids, tannins, and phenolic acids, which possess antimicrobial, antioxidant, and anti-inflammatory properties. Encapsulation techniques further enhance the efficacy of these nanoparticles, ensuring stability and controlled release, thereby improving therapeutic outcomes. When integrated into biodegradable bandages, these nanoparticles provide multifunctional benefits, including infection prevention, tissue regeneration, and minimized need for frequent dressing changes, particularly advantageous for managing diabetic wounds prone to slow healing and infections. The antimicrobial and antioxidant properties of these nanoparticles combat common wound pathogens and reduce oxidative stress, facilitating faster and more efficient healing. Furthermore, biodegradable materials address environmental concerns, making the approach sustainable. This study seeks to develop a novel wound care solution by synthesizing and encapsulating nanoparticles from Tanner's Cassia rind and embedding them in biodegradable bandages, addressing the limitations of existing treatments while offering a scalable, eco-friendly alternative. This approach could revolutionize wound care, offering improved outcomes in managing acute, chronic, surgical wounds, burns, ulcers, and diabetic wounds, contributing to both healthcare advancement and environmental sustainability.

LITERATURE REVIEW

The management of diabetic wounds poses a considerable clinical challenge due to impaired healing mechanisms linked to chronic hyperglycemia, reduced blood flow, oxidative stress, and infection susceptibility. Addressing these complexities necessitates innovative

solutions that enhance healing while minimizing complications.

Diabetic wounds, especially foot ulcers, are marked by prolonged inflammation, hindered angiogenesis, and a high risk of microbial infections. Conventional treatments, including gauze and hydrocolloid dressings, provide basic wound coverage but lack the antimicrobial and bioactive properties required to actively promote healing. Additionally, the rise of multidrug-resistant pathogens highlights the urgency for alternative therapeutic strategies.

Nanotechnology offers a transformative approach, utilizing nanoscale materials' unique properties to improve therapeutic outcomes. Nanoparticles exhibit superior reactivity and functionality, enabling efficient delivery of antimicrobial agents, reduction of oxidative stress, and promotion of tissue regeneration. Among these, plant-derived nanoparticles have gained attention for their eco-friendliness, biocompatibility, and multifunctionality.

Tanner's Cassia (Avarampoo), a medicinal plant rooted in traditional practices, has emerged as a promising source for green synthesis of nanoparticles. Rich in bioactive compounds like flavonoids, tannins, and phenolic acids, its rind facilitates eco-friendly nanoparticle production while offering antimicrobial, antioxidant, and anti-inflammatory benefits. These bioactive nanoparticles are particularly suited for diabetic wound care, combating pathogens like Staphylococcus aureus and Escherichia coli while alleviating oxidative stress—a critical factor in impaired healing.

Encapsulation techniques, such as ionic gelation and solvent evaporation, enhance nanoparticle stability and effectiveness. By forming a protective polymeric shell, encapsulation ensures controlled release of bioactive compounds, sustaining therapeutic activity essential for slow-healing diabetic wounds.

Biodegradable bandages infused with encapsulated nanoparticles present a multifunctional wound care solution. These bandages mimic the extracellular matrix, promoting cellular proliferation and differentiation while providing structural support. Their benefits include:

- **Enhanced Antimicrobial Efficiency:** Bioactive nanoparticles inhibit the growth of common pathogens, reducing infection risks.
- **Oxidative Stress Mitigation:** Antioxidant properties of the nanoparticles alleviate oxidative damage, fostering a conducive healing environment.
- **Sustained Therapeutic Action:** Controlled release of bioactive compounds aligns with the extended healing timeline of diabetic wounds.
- **Reduced Frequency of Dressing Changes:** The durable bioactivity of the bandages minimizes the need for frequent replacements, enhancing patient comfort and compliance.
- **Environmental Sustainability:** The biodegradable nature of the bandages addresses environmental concerns associated with conventional wound dressings.

Tanner's Cassia-derived biodegradable bandages stand out as an innovative solution in diabetic wound management. Compared to conventional dressings and synthetic nanoparticle-based alternatives, these bandages offer a sustainable and holistic approach. Their natural origin ensures biocompatibility, while encapsulation techniques enhance stability and therapeutic efficacy, providing a superior solution for managing diabetic wounds. Compared to conventional dressings and synthetic nanoparticle alternatives, Tanner's Cassia-derived biodegradable bandages offer a sustainable, biocompatible, and highly effective solution for diabetic wound care.

FIG-1: Tanner's Cassia

REVIEW ON DEVELOPMENT AND APPLICATION OF CONCRETE FILLED BAGS FOR RIVERBANK STABILIZATION

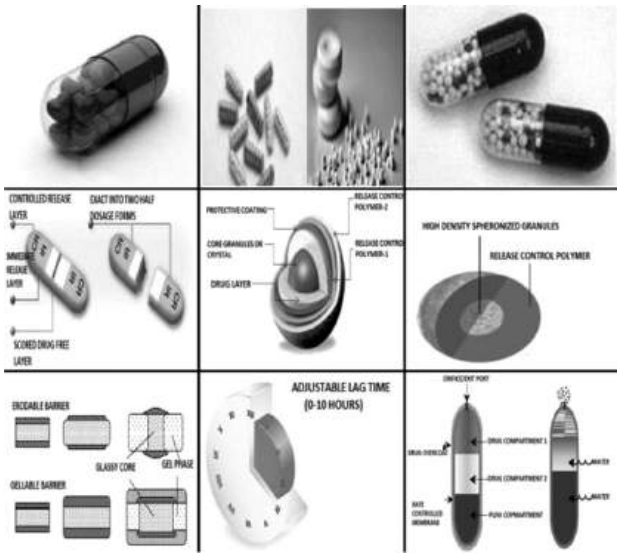


FIG-2: Encapsulated drug delivery system diagram

MATERIALS & METHODOLOGY

This study utilizes natural and biocompatible materials to develop an eco-friendly wound care solution for diabetic wounds. The primary materials include Tanner's Cassia (Avarampoo) rind, which is rich in bioactive compounds, and natural biodegradable polymers such as chitosan, alginate, and poly(lactic-co-glycolic acid) (PLGA) for nanoparticle encapsulation and bandage fabrication. The study also uses distilled water for nanoparticle synthesis, nutrient agar plates for antimicrobial testing, and human fibroblast and keratinocyte cell lines for in vitro wound healing assessments.

Materials

1. Tanner's Cassia /(Avarampoo) Rind:

Tanner's Cassia (Avarampoo), a plant known for its medicinal properties, was selected as the primary source of bioactive compounds for nanoparticle synthesis. The rind of the plant was harvested from mature trees, cleaned thoroughly to remove any dirt or contaminants, and dried in the shade to preserve the integrity of its bioactive components. The dried rind was then powdered to facilitate extraction.

2. Water:

Purified, distilled water was used throughout the synthesis and encapsulation processes to maintain the eco-friendly nature of the procedure, avoiding any synthetic chemicals or solvents that might compromise the sustainability of the study.

3. Polymers for Encapsulation:

To encapsulate the nanoparticles, biodegradable polymers such as chitosan, alginate, or poly(lactic-co-glycolic acid) (PLGA) were used. These natural polymers were selected for their biocompatibility, biodegradability, and ability to form stable nanoparticle structures. The encapsulating materials were sourced from reputable suppliers specializing in natural biopolymers, ensuring quality and purity without the use of chemicals.

4. Nutrient Agar Plates:

To assess the antimicrobial efficacy of the nanoparticles, nutrient agar plates were used for culturing common wound pathogens such as Staphylococcus aureus and Escherichia coli. These bacteria were sourced from certified biological stock collections, ensuring their authenticity and virulence properties for testing.

5. Cell Culture Materials:

For in vitro wound healing studies, cell culture materials such as sterile culture plates, nutrient medium (Dulbecco's Modified Eagle Medium (DMEM)), and fetal bovine serum (FBS) were used to support the growth of human fibroblast and keratinocyte cell lines. These materials were necessary for evaluating the effect of nanoparticles on cellular proliferation and migration.

6. Biodegradable Bandage Materials

For the development of the wound care bandages, natural biopolymers such as chitosan and alginate were employed. These materials are biodegradable and commonly used in the development of medical dressings. The bandages were fabricated in a laboratory setting using simple drying techniques and without the use of harmful chemicals, ensuring their eco-friendly nature.

Methodology

Synthesis of Nanoparticles

- **Plant Extract Preparation:** The dried and powdered rind of Tanner's Cassia was boiled in distilled water at a 1:10 (w/v) ratio for 30 minutes, followed by filtration to obtain the bioactive extract.
- **Nanoparticle Synthesis:** The plant extract was mixed with distilled water and heated, causing a reduction in metal ions, resulting in nanoparticle formation. This process was

confirmed by a color change from colorless to brown.

- **Characterization:** UV-Visible Spectroscopy was used to confirm nanoparticle formation, while Transmission Electron Microscopy (TEM) and Dynamic Light Scattering (DLS) were employed to determine particle size and morphology.

Encapsulation of Nanoparticles

- **Polymer Preparation:** Chitosan and alginate were dissolved in water to create a solution for nanoparticle encapsulation.
- **Encapsulation Process:** Nanoparticles were incorporated into the polymer solution using ionic gelation or solvent evaporation techniques, forming a protective shell around the nanoparticles to enhance their stability and controlled release of bioactive compounds.
- **Characterization:** Scanning Electron Microscopy (SEM) was used to observe the surface morphology, while Fourier Transform Infrared Spectroscopy (FTIR) analyzed the interaction between nanoparticles and the polymer matrix. Release kinetics were studied to assess the sustained release of bioactive compounds.

Development of Biodegradable Bandages

1. Fabrication of Bandages

Biodegradable bandages were prepared by incorporating encapsulated nanoparticles into a polymer solution of chitosan and alginate. The mixture was spread onto sterile gauze or nonwoven fabric to form a thin, uniform layer, which was then air-dried to obtain the final bandage product.

2. Characterization of Bandages

The physical properties of the bandages, including tensile strength, flexibility, and porosity, were evaluated.

- **Tensile Strength** Testing assessed the mechanical durability of the bandages.
- **Porosity Measurement** ensured the bandages allowed for proper gas exchange and wound hydration.
- In Vitro Release Studies evaluated the controlled release of nanoparticles from the bandages in a simulated wound environment.

Evaluation of Antimicrobial Efficacy

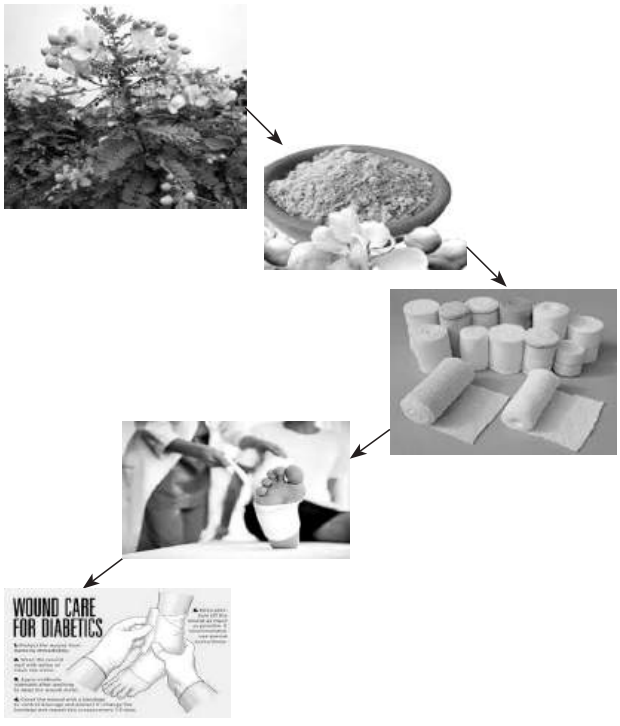
- **Microbial Testing:** Antimicrobial activity was assessed using agar diffusion assays with Staphylococcus aureus and Escherichia coli. The bandages were placed on inoculated nutrient agar plates, and inhibition zones were measured to evaluate antimicrobial effectiveness.

In Vitro Cytotoxicity and Wound Healing Studies

- **Cell Culture:** Human fibroblast and keratinocyte cell lines were cultured to simulate a wound environment. A scratch was created on the monolayer, and bandages were applied to observe their effect on cellular migration, proliferation, and tissue regeneration.
- **Assessment:** The healing process was monitored using live cell imaging over a set period.

This methodology combines eco-friendly nanoparticle synthesis from Tanner's Cassia, encapsulation techniques for stability, and biodegradable bandages for wound care, offering a sustainable and effective solution for managing diabetic wounds.

FLOW PROCESS OF METHOD



COMPARISON WITH EXISTING LITERATURE

Managing diabetic wounds remains a major clinical challenge due to delayed healing, susceptibility to infections, and oxidative stress caused by chronic hyperglycemia. Existing wound care solutions, such as gauze and hydrocolloid dressings, provide basic protection but lack bioactive properties to address these complex issues. Moreover, the rise of multidrug-resistant pathogens highlights the urgent need for innovative, multifunctional wound care strategies.

Advances in Nanotechnology for Wound Healing

Nanotechnology has emerged as a promising solution in wound care, offering materials with unique properties to enhance therapeutic outcomes. Silver, gold, and chitosan nanoparticles are widely studied for their antimicrobial and regenerative capabilities. However, these nanoparticles often face challenges like cytotoxicity, high costs, or limited bioactivity.

In contrast, nanoparticles derived from Tanner's Cassia (Avarampoo) represent a sustainable alternative. Synthesized through an eco-friendly, chemical-free process, these nanoparticles are rich in bioactive compounds such as flavonoids, tannins, and phenolic acids. These properties provide antimicrobial, antioxidant, and anti-inflammatory effects, making them particularly suitable for addressing diabetic wound complications, such as infections and oxidative stress.

Encapsulation for Enhanced Stability and Effectiveness

Encapsulation techniques, including ionic gelation and emulsion-based methods, further enhance the stability and therapeutic efficacy of Tanner's Cassia nanoparticles. Encapsulation creates a protective polymeric shell around the nanoparticles, ensuring controlled release of bioactive agents. This sustained release is critical for managing diabetic wounds, where prolonged healing timelines necessitate extended therapeutic action. Encapsulated nanoparticles reduce the need for frequent dressing changes, improving patient comfort and compliance.

Therapeutic Benefits of Biodegradable Bandages

Biodegradable bandages incorporating Tanner's Cassia nanoparticles provide a multifunctional wound care solution. These bandages offer key therapeutic advantages:

- **Antimicrobial Activity:** Effectively combat common wound pathogens like Staphylococcus aureus and Escherichia coli, minimizing infection risks without cytotoxicity.
- **Oxidative Stress Reduction:** Antioxidant properties alleviate oxidative damage, creating a favorable healing environment.
- **Tissue Regeneration:** Mimicking the extracellular matrix, the bandages support cell proliferation and migration, essential for tissue repair.
- **Sustained Therapeutic Action:** Controlled release of bioactive compounds aligns with the extended healing process of diabetic wounds.
- **Environmental Sustainability:** Made from biodegradable materials, these bandages address environmental concerns associated with synthetic wound dressings.

Comparative Advantages Over Existing Solutions

This innovative approach offers several benefits compared to conventional dressings and nanoparticle-based therapies:

- Enhanced antimicrobial and regenerative properties without toxicity concerns.
- Prolonged activity through controlled release, reducing dressing changes.
- Eco-friendly, cost-effective production using plant-derived nanoparticles.
- Biocompatibility and sustainability, addressing both healthcare and environmental goals.

Clinical and Research Implications

The integration of Tanner's Cassia-based nanoparticles into biodegradable bandages represents a significant advancement in diabetic wound care. These bandages not only address critical issues like infection and oxidative stress but also align with global sustainability goals. Further research should focus on scaling synthesis processes, optimizing formulations, and validating efficacy through clinical trials.

By combining the therapeutic potential of Tanner's Cassia nanoparticles with the sustainability

of biodegradable materials, this study introduces a transformative approach to diabetic wound care. The developed bandages effectively address existing limitations while offering eco-friendly and cost-efficient solutions, setting a new standard for innovation in wound management.

FUTURE RESEARCH DIRECTIONS:

The integration of Tanner's Cassia (Avarampoo)-based nanoparticles into biodegradable bandages represents a promising advancement in diabetic wound care. However, further research is essential to optimize this approach and explore its broader potential. Key future directions include:

1. Scaling Up Nanoparticle Production

Research should focus on developing standardized, scalable methods for synthesizing Tanner's Cassia nanoparticles. Automating processes and improving yield consistency are critical for industrial applications.

2. Enhancing Encapsulation Techniques

Refining encapsulation methods can improve efficiency and release profiles. Exploring alternative biodegradable polymers or multi-layered systems may enhance therapeutic outcomes.

3. Comprehensive In Vitro Validation

While in vitro studies are promising, in vivo research on diabetic wound models is necessary to confirm safety, biocompatibility, and long-term efficacy. Comparative clinical trials with conventional treatments will further establish its potential.

4. Expanding Applications

Beyond diabetic wounds, the nanoparticles could be applied to surgical wounds, burns, and pressure ulcers. Exploring formulations like gels and sprays will diversify therapeutic uses.

5. Synergistic Combinations

Combining Tanner's Cassia nanoparticles with other bioactive agents, such as growth factors or peptides, could enhance antimicrobial resistance mitigation and tissue regeneration.

6. Innovating Biodegradable Materials

Developing new biodegradable composites with improved properties will ensure durability and functionality across various wound conditions while maintaining environmental sustainability.

7. Smart Wound Monitoring Integration

Incorporating sensors into bandages for monitoring wound pH, temperature, and moisture could enable real-time adjustments to therapy, improving patient outcomes.

8. Addressing Regulatory and Market Barriers

Toxicological assessments, cost-benefit analyses, and stakeholder engagement will help navigate regulatory and commercialization challenges, ensuring wider adoption.

9. Training and Awareness

Educating healthcare providers on the use and benefits of these bandages will encourage proper application and broader acceptance.

10. Sustainability Studies

Long-term evaluations of the environmental impact and biodegradability of the bandages will align with global sustainability goals. Circular economy models could support waste recovery and reuse.

Future research in these areas will not only refine the design and application of Tanner's Cassia-based nanoparticles but also expand their potential to revolutionize diabetic wound care. By addressing scalability, efficacy, sustainability, and regulatory challenges, this innovation can become a widely adopted solution that aligns with both healthcare and environmental priorities.

CONCLUSION

The integration of Tanner's Cassia (Avarampoo)-based nanoparticles into biodegradable bandages represents a promising innovation in diabetic wound care, addressing key challenges such as prolonged inflammation, oxidative stress, and infection risk. Current literature underscores the limitations of conventional dressings, which often lack the multifunctional properties required for effective wound management. In contrast, plant-derived nanoparticles, enriched with bioactive compounds like flavonoids and tannins, offer enhanced antimicrobial, antioxidant, and regenerative properties, aligning with global trends toward eco-friendly and sustainable healthcare solutions.

Encapsulation techniques, as highlighted in various studies, ensure the stability and sustained release of bioactive agents, optimizing therapeutic efficacy and reducing the frequency of dressing changes. When integrated into biodegradable bandages, these nanoparticles provide structural support and mimic the extracellular matrix, facilitating tissue regeneration and improved healing outcomes. Additionally, the environmental sustainability of these bandages offers a significant advantage over traditional synthetic materials, aligning with broader ecological goals.

Despite their potential, the scalability and clinical application of these innovative bandages remain areas for further research. Literature emphasizes the need for large-scale production protocols, in vivo validations, and comparative clinical trials to establish their effectiveness and cost efficiency in real-world settings. Expanding the application to other wound types, incorporating smart monitoring technologies, and addressing regulatory requirements are critical next steps.

In conclusion, the synthesis of Tanner's Cassia-based nanoparticles and their incorporation into biodegradable bandages offer a holistic solution to the multifaceted challenges of diabetic wound care. By bridging traditional medicine with nanotechnology and sustainability principles, this approach has the potential to revolutionize wound management, improve patient outcomes, and contribute to environmentally conscious healthcare practices. Continued research and innovation will be essential to unlocking its full clinical and commercial potential.

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DESIGN AND DEVELOPMENT OF SHAPEWEAR (CORSET) TO IMPROVE THE FIT AND APPEARANCE OF THE WEARER

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ABSTRACT

For special events in particular, every woman aspires to have the ideal hourglass figure. One needs to have a fantastic body shape in order to look flawless when wearing and displaying particular styles. A easy method for getting the ideal body is donning shapewear and slipping into a lovely, silhouetted dress. Shapewear is a category of undergarments that is manufactured from a material that is both hard and elastic. Shapewear textiles are designed to smooth out the body by nipping and tucking. By flattening bulges, elevating sagging areas, and straightening postures, it helps women shape their bodies. The comfort of shapewear is increasing as demand rises and new technology is created. Many ladies have incorporated shapewear into their everyday wardrobe. In order to establish how well corsets shape, pressure and shaping efficacy are examined. This study looked at the product characteristics of four different designs of posture correction corsets in terms of design, material preference, fit, comfort, freedom of movement, tightness in order to improve the design and comfort of waist protection corsets. This research aids in the development of waist protection corsets that are both comfortable and attractive to wear. The comfort and fit will be determined by the three design advancements from the basic corset and the study has been prepared.

Key words : hourglass, Shapewear, silhouette, corsets.

1. INTRODUCTION

A support garment used to mould and fix the torso in place is called a corset. There are many different styles of shapewear. They are used to make numerous body portions, including the hips, thighs, stomach, belly, waist, and chest, look better. Shapewear for the upper body includes underbust shapers, corsets, camisoles, and shaping vests. These fashions typically tuck the stomach in and lift the busts to accentuate and make the cleavage more prominent. The fitting of the garment is a key draw when thinking about fashion trends. It primarily has two characteristics, namely comfort level and attractiveness. The appearance as a whole is the result of these two. A personal method of expression that may or may not be applicable to everyone is what is typically meant by the term "fashion." A designer always employs a variety of techniques to tailor a garment to the wearer. Draping, pattern making, and other processes fall under this category. Through this procedure, a well-fitting clothing is created. Researchers, retailers, clothes manufacturers, and customers have frequently been concerned about the fit of clothing, but when working with functional clothing, its significance increases significantly. Typically, there are two components to fit: comfort and attractiveness. However, some women always have trouble getting the dress to fit because of changes in their bodies. When wearing a dress, certain ladies will tend to have an hourglass figure. But some people will have a saggy waist and a bulge. Wearing a shaper before a dress is the only way to achieve the ideal body form. It will give a correct fit and compress the waist. Typically, they are tucked into tops and dresses.The present investigation aims to develop to design a shape wear to improve the fit and appearance of the wearer.

2. METHODOLOGY

It's important to observe and research the numerous aspects of clothing design. It matters how an experiment was conducted as well as how a garment is made at each stage of the process. It describes the process utilised in the creation and design of a garment.

2.1 IDENTIFY THE PROBLEMS

This article's goal is to assess the demand for shapewear. Women with a drooping waist and an unflattering form typically have an hourglass figure. Each person has a different viewpoint on shapewear. Many women wore simple corsets. Simple corsets have few drawbacks. Plain corsets fall short in terms of fit and comfort. Therefore, three design improvements from the simple corset have been created in order to address the issues with fabric selection, trim selection, pattern making, garment construction, and finishing surveys. Each design incorporates a pattern modification to address the fitting issue.

2.2 DESIGNING

Clothing allows one to exhibit their unique personalities while also giving them pleasure and comfort. It takes more than just wearing clothes to become gorgeous. It is insufficient to just dress in clothing that reflects one's unique personality. There is something that is more significant than style, appearance, charisma, or any combination of these. Design is a discipline of art that concentrates on producing apparel and other items for daily life. Three corset patterns were created from a basic corset as a result of this article's investigation, specifically to address fitting issues.

2.3 GARMENT DESIGNS

Four garment designs are done. These designs were generated from the basic corset design. Plain corset, V-yoke corset, Side panel corset, Shaper fit corset.

2.4 FABRIC SELECTION

The most crucial aspects to consider while choosing a cloth are length, colour, texture, and style. The type of clothing determines the fabric's length. Although fabric is normally cut lengthwise, the bias grain axis can also be used on occasion. Texture is another element of fabric design. It determines how the fabric feels and looks. Texture is the experience of handling, grasping, and squeezing fabric.

2.5 CHOICE OF MATERIAL

This project uses polyester lycra fabric to design shapewear. The polyester lycra fabric will provide enough stretch, which is a key element in shapewear. A particularly elastic sort of synthetic cloth is called lycra. Polyester and polyurethane, a flexible plastic substance, are combined to make it. Lycra is a widely used fabric in apparel because of its durability and elasticity.

2.6 CHOICE OF COLOR

The shapewear is made with consideration for skin tone. Your clothing and complexion will determine the ideal colour combination. Look for shapewear in black or cocoa if you have darker skin and are wearing a light-colored outfit. Less pigmented skin should wear a bodysuit over a thin garment. With darker outerwear, the black option looks good on people of all skin tones.

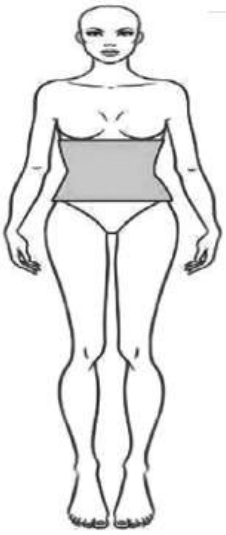
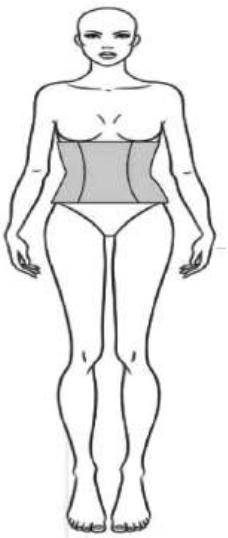
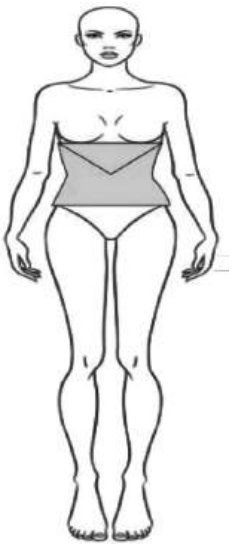
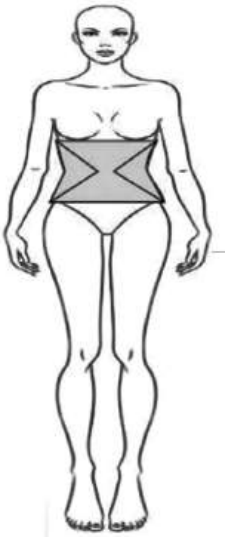
2.7 TRIMS SELECTION

The fabric is built using threads. In addition to the fabric, clothing accessories or fabric trims can also be attached to a garment. In addition to cloth, trims are items that are utilised in the sewing room to make dresses. They work closely with the fabric to create clothing. Nothing can be used on the form wear other than thread. Trims can be used because it is an undergarment.

2.8 THREAD

Polyester threads are displacing rayon threads at a rapid rate. These are the most common threads for embroidery and stitching. Polyester yarn has a high sheen and can withstand threads could be used in woven jackets, hosiery, leather garments,

Table -1 Corset Designs

Design 1	Design 2	Design 3	Design 4
			

and denim, as well as ready-to-wear clothing. Since, we have taken skin color fabric for shapewear the matching thread color is also skin color

2.9 PATTERN MAKING

It takes a lot of talent to create patterns for clothing production. Each pattern's attention to detail and technique ensures that garments are produced to design with a small margin of error. After you've designed your clothes, you'll need to convert your sketches into technical drawings before you can start making patterns.

2.10 PATTERN MAKING – TECHNIQUES

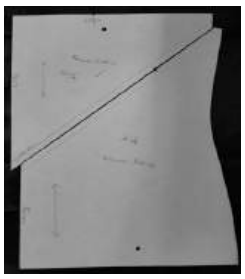
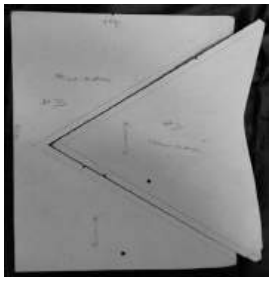
2.10.1 PATTERN DRAWING ON A FLAT SURFACE

This method uses muslin fabric to transform a simple pattern into a three-dimensional form, which is then transferred to paper. Flat patterning helps to illustrate the areas for movement while also enhancing the wearer's comfort.

2.10.2 DRAFTING

It's a patternmaking technique in which body measurements are taken precisely, then ease is added for quick movement. A dress type or a model

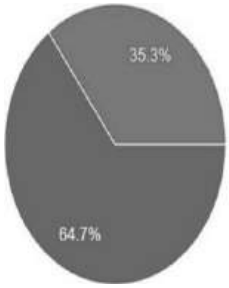
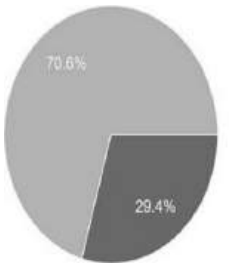
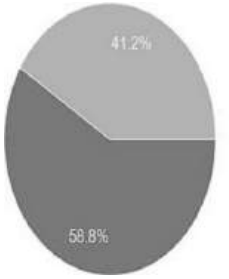
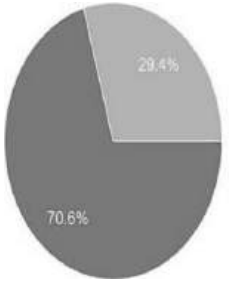
TABLE 2-Design and Finished Corset

DESIGN	PATTERN	FINISHED CORSET	DESCRIPTION
PLAIN CORSET			This shape gives the wearer a perfect fit and comfort. This patten doesn't have any pattern complications.
V- YOKE CORSET			In this pattern a yoke has been given. V yoke has been given in center front and centre back This yoke will give extra compression to the abdominal area and centre back. By this design we can expect the fit for the abdomen area and waist.
SIDE PANEL CORSET			In this pattern side panels has been given. This side panel will give the waist area extra fit and comfort. Panels has been given to both the sides of front and back. Those panels have been attached to centre front and centre back.
SHAPER FIT CROSSER			In this design a side panel from waist to centre front has been given. This will try to compress from waist to abdomen. The pattern change has been given to both front and back.

may be used to draught. Drafting is commonly used in the textile industry, and it can also be performed using a device.

2.11 CUTTING

Fabric cutting procedures follow the development of patterns. If the pattern does not have a seam allowance, add one before cutting. Place the fabric on a smooth surface and smooth out any wrinkles or folds. Only then should the fabric be cut. Fabric shears are widely used, but electronic cutting shears, similar to round knives, are used for industrial purposes.

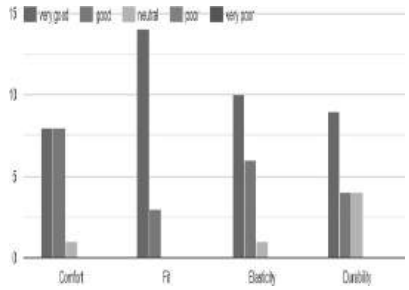
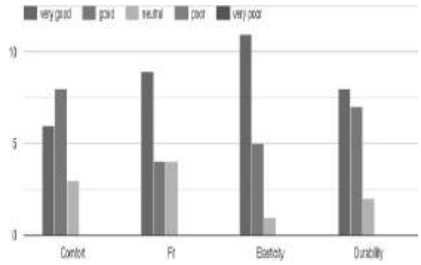
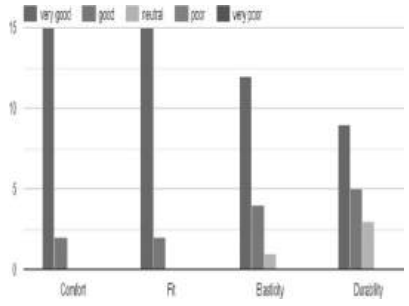
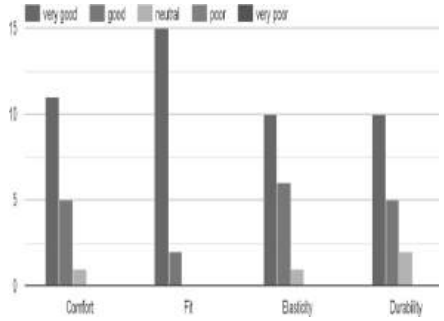
Sl. no.	Criteria	Customer Response	Percentage	comment
1	Preference 	Yes No	64.7% 35.3%	This reaction is the customers reaction about preferring the shapewear for daily use. Most of the customers agrees to that they preferred to wear shapewear daily. Some of them disagreed to that because of comfortless.
2	Reason for preferring shaper 	Fit Comfort Both	29.4% 0% 29.4%	This is about reasons for preferring shapewear. Whether it is to be wear forfit or comfort. Most of customers preferred both fit and comfort. While the minority of them preferred for its fit only. None of them agreed to its comfort only. So, shapewear is mostly preferred for both fit and comfort.
3	Facing any skin irritation while wearing shapewear 	Yes No May be	0 % 42.2% 58.8%	This is about reasons for preferring shapewear. Whether it is to be wear forfit or comfort. Most of customers preferred both fit and comfort. While the minority of them preferred for its fit only. None of them agreed to its comfort only. So, shapewear is mostly preferred for both fit and comfort.
4	Does the shaper cause any extra skin sensitivity or pain in your skin 	Often Rarely Never	0% 70.6% 29.4%	Most of the customers have rarely experience the skin irritation, because they have been wearing it for very long time and wrong choice of shaper. Someof the customers have never faced suchproblems. So, the customers have to analyses their body type and buy the shapewear

2.12 FINISHING

In the garment industry, finishing is a critical step. We take the finished goods from the lowing section and keep records in this area, then send them to the iron section after suckering Wham. The ironman then irons these according to the buyer's instructions.

2.13 SURVEY

A survey aids in the collection of data for a new product or conduct among customers. The survey is administered online, making it easier to interpret for all participants and allowing for the registration of responses. The following questions are asked of the designed garments.

Sl. no	Criteria	RATING	COMFORT	FIT	ELASTICITY	DURABLITY
1	Comfort level of wearing shapewear design 1 	Verygood	8	14	10	8
		Good	8	3	6	3
		Neutral	1	0	1	3
		Poor	0	0	0	0
		Verypoor	0	0	0	0
2	Comfort level of wearing shapewear design 2 	Verygood	6	8.75	11	7
		Good	8	3	5	6
		Neutral	3	3	1	1
		Poor	0	0	0	0
		Verypoor	0	0	0	0
3	Comfort level of wearing shapewear design 3 	Verygood	15	15	12	9
		Good	2	2	4	5
		Neutral	0	0	1	3
		Poor	0	0	0	O
		Verypoor	0	0	0	0
4	Comfort level of wearing shapewear design 4 	Verygood	11	15	10	10
		Good	5	2	6	5
		Neutral	1	0	1	2
		Poor	0	0	0	0
		Verypoor	0	0	0	0

Shapewear preference, Total hours of wearing shapewear , Reason for preferring shapewear, Comfort level of shaper for four designs, Skin irritation while wearing shapewear.

2.13.1 IDENTIFYING PROBLEM

The fit and comfort issues occur in women's shapewear are identified and solve by it using design developments.

Designing-The design has been developed from the plain corset and designed according.

Selection Of Fabric - Skin color polyester lycra are selected for the garment. It is comfortable and has good elasticity. It is the most preferable fabric for shapewear.

Trims - The selection trims are done on depend upon the type of the garment. Only threads are used to construct the garment.

Pattern Making -The flat laying technique has been used to draft the pattern for the designs.

Cutting - Fabrics are cut by using the patterns that made for the design.

Garment Construction - The design has been constructed according to the given pattern. FINISHING - Finishing is done after the whole sewing process and removed excess threads

3. RESULT AND DISCUSSION

Total hours of wearing shaper per day

Total no of hours	percentage
4 hours	18.7%
6 hours	43.8%
More than 6 hours	37.5%
Full day	0%

This chat shows the total hour of wearing a shaper. Most of the customers can wear up to 6 hours a day. Some of them can wear it more than 6 hours per day or lesser that it. Whereas no of them have agreed to wear it for full day.Because if shaper is worn for full day it can cause skin irritation problem etc. it's vital to let your body relax. Don't wear them for extremely long periods of time or sleep in them.

4. CONCLUSION

This articles deals with the designing of women's shapewear for fit and comfort. Shapewears are designed for the women's who tends to have the perfect body shape with some design variations. The main advantage of the garment is the pattern changes. Three design developments were made from the plain corset to increase the fit and comfort. This study contributes to the creation of waist supporting corsets that are both comfortable and beautiful to wear. They're designed to make different sections of the body look better. The four designs were analyzed for comfort, fit and shape. It should be alright if you wear the proper size and style of shapewear that allows you to breathe and work comfortably. The fabric also adapts itself so that the user does not feel suffocated while still providing sufficient compression

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Innerwear exports contract on dearer China inputs

India's dependence on Chinese raw materials for garment manufacturing, particularly in the innerwear segment, is hurting the domestic industry. As prices of key inputs have surged, exports in this category have sharply declined over the past three years (FY 22-FY24), raising concerns about the long-term impact of reliance on China, two people aware of the matter said.

The rise in raw material costs by 20% to 30% for cotton yarn, spandex, synthetic fibres and elastics, many of which are sourced from China, is a major reason for the decline in exports of innerwear, said the first of the two persons cited earlier, both of whom spoke on condition of anonymity.

This input cost surge is largely due to the ongoing supply chain disruptions, increasing global demand, and fluctuating energy prices in Chian, the second person said.

According to export data, there have been sharp declines in key innerwear categories. While men's and boys' innerwear exports, including underpants, briefs and pyjamas, fell by 24% from $720.86 million in FY22 to $548.24 million in FY 24, exports of singlets and vests also recorded a modest drop, as per commerce ministry data, exclusively accessed by *Mint.*

As per the data, the women's and girls' innerwear category faced similar hurdles, with exports of slips and night-dresses decreasing from $627.74 million in FY22 to $499.86 million in FY24, reflecting a fall of 20.37%.

Queries emailed to spokes-persons of ministries of commerce and textiles as well as the Chinese embassy in New Delhi remained unanswered till press time.

As per data provided by one of the country's leading innerwear manufacturers, Rupa, the company's exports dipped by 42.38% in rupee terms, from ₹41.11 crore in FY23 to ₹23.69 crore in FY24.

The Men's Underwear Index (MUI), a concept introduced by former US Federal Reserve chairman Alan Greenspan, suggests that increased sales of innerwear can indicate a recovery in consumer spending.

In the case of India, the Men's Underwear Index is relevant to the dip in innerwear exports because it reflects consumer demand trends, which are closely tied to production cycles.

"A decline in exports of innerwear signals broader economic stress, supporting the MUI's idea that lower sales of essential goods indicate pressure on the economy," said Abhash Kumar, assistant professor of economies at the University of Delhi.

The support garments segment saw the sharpest decline, with exports of bras, corsets, and suspenders dropping by 35.30%, from $95.14 million in FY22 to $61.56 million in FY24, the data showed.

"The industry is undergoing a significant transformation, with rising demand for affordable, high-quality products in South-east Asia and the Middle East, further enhancing India's export potential. Consumers are increasingly prioritizing comfort, sustainability and innovation, shaping the future of innerwear," said Ramesh Agarwal, director of Rupa and Co. Ltd.

According to a report by fashion research platform Images Business of Fashion, India's innerwear market is projected to grow at a compounded annual growth rate of 10% between 2024 and 2029, expanding from ₹66,703 crore to ₹1.07 trillion. ❐

As China loses apparel market share in EU and US, India may be benefited

Retailers in the US and the European Union (EU) increased their orders for cotton garments from Vietnam instead of China and Bangladesh in 2024.

India, too, gained during the period, experiencing a 20 per cent growth year-on-year during the April-December period of the current fiscal.

"Compared to 2022, China's market share in the US decline by 1 per cent last year, dropping from 21.8 per cent to 20.8 per cent. Each 1 per cent market share translates to approximately ₹6,900 crore worth of business in the US," said Prabhu Dhamodharan, Convenor of the Indian Texpreneurs Federation (ITF).

China's lost share was distributed among multiple countries, with each competing nation gaining 0.2 per cent to 0.6 per cent from this China Plus One shift.

India gained 0.2 per cent market share, bringing its current share to 5.9 per cent, he said.

According to the Cotton Textiles Export Promotion Council (Texprocil), data released by the Ministry of Commerce and Industry show that exports of cotton yarn, fabrics, made-ups and handloom products from India grew by 11.98 per cent in December 2024 over December 2023.

During April-December 2024, Indian cotton yarn, fabrics, made-ups and handloom products registered a growth of 2.82 per cent. The growth of apparel during the first nine months of the current fiscal was 11.5 per cent.

EXPORT PROSPECTS AND MARKETS

"Bangladesh garment orders have been diverted to India. This has resulted in good demand for domestic yarn and garment exports," said Anand Popat, a Rajkot-based trader in cotton, yarn and cotton waste.

"Even getting 5-10 per cent of the order from Bangladesh means a lot. The weakening of the rupee will also help," said Raichur-based Ramanuj Das Boob, a sourcing agent for multinational and domestic companies.

Hindrance for China

Dhamodharan said the US administration has introduced new tariffs (ranging from 0 to 35 per cent) on small parcels from China. This will create challenges for e-platform companies, making small-parcel shipments from China less competitive.

"This will open up big opportunities for India to bet on e-commerce fashion exports," he said, adding that India was witnessing a surge in inquiries, with apparel exporters experiencing better order visibility form the US.

Indian apparel exporters are witnessing a surge in inquiries and better order visibility, with brands introducing new product categories that were previously not manufactured in India, said the ITF convenor.

Vietnam turns to us

"A few Indian companies are drawing up plans for exclusive largescale capacities to cater to the US market, a positive and much-needed move from India's perspective to enhance scale and competitiveness in the global market," said Dhamodharan.

However, Vietnam has begun to buy more cotton from the US than India. "Indian cotton prices are higher than US rates. Vietnam is buying from Brazil and West Africa too," said Popat.

"Vietnam is not buying as Intercontinental Exchange (ICE) prices are 66-68 US cents a pound. It also does not impose Customs duty," said Das Boob, adding that small quantities of yarn have been imported into India.

Currently, cotton benchmark futures are ruling at 67.4 US cents a pound (₹46,375 a candy of 356 kg). In India, exports benchmark cotton Shankar-6 is quoted at ₹53,550 a candy.

Stagnant Market

"The cotton market is stagnant in India. The Cotton Corporation of India (CCI) has procured 92 lakh bales under the price support programme, buying the natural fibre at the minimum support price (₹7,121/quintal for medium staple variety)," the Raichur-based sourcing agent said.

CCI procurement could top 100 lakh bales but the price level is comfortable for spinning mills, he said. ❐

Trade deficit extends to $23 b in Jan as exports dip 2.38%

The country's trade deficit widened to $22.99 billion in January 2025, up from $16.56 billion in the same month last year, as goods exports dipped 2.38 per cent (year-on-year) to $36.43 billion, the third consecutive month of fall, according to government data. The decline in exports was largely owing to a sharp fall in petroleum product exports.

Imports increased by 10.28 per cent to $59.42 billion in January 2025, with a rise in inbound shipments of electronic goods, gold, non-ferrous metals, iron and steel and chemicals, among others, according to quick estimates of trade data for the month shared by the Commerce Department recently.

Goods exports fell in January 2025 as petroleum products exports reduced by more than half during the month, but non-petroleum exports increased 14.15 per cent to $32.86 billion demonstrating the resilience of exporters, Commerce Secretary Sunil Barthwal said. Despite global conflicts and tariff wars, India has been able to do well in both goods and services exports, he said.

"Electronics goods are driving exports, followed by drugs, pharmaceuticals and rice," Barthwal said. He added that gems & jewellery had shown a pick-up after long, which was a good sign for the future.

India's goods and services exports would cross $800 billion in 2024-25, as targeted, the Secretary said. In FY24, goods and services exports were valued at $778 billion.

During April-January 2024-25, goods exports increased 1.39 per cent to $358.91 billion, while imports rose 7.43 per cent to $601.9 billion. Trade deficit during the period widened to $242.99 billion.

Gold imports rise

The exporters' body FIEO pushed for continuation of the interest equalisation scheme, extension of R&D support, creation of a globally recognised Indian shipping line, and the resolution of GST-related export challenges to help sustain the sector's growth.

In January, India's gold imports increased to $2.68 billion from $1.9 billion in the same month last year. It was, however, lower than the $4.7 billion in December 2024. The top five export destinations in January (compared to same month last year), in terms of growth in value, were the US, Japan, Bangladesh, the UK and Nepal. The top five import sources in January, in terms of growth in value, were China, Thailand, the US, Germany and the UK. ❐

PM : Optimist of achieving ₹9 lakh-cr textile exports before 2030 deadline

Prime Minister Narendra Modi expressed satisfaction over the work being done in the textile sector and said he is optimistic that India will achieve the ₹9 lakh crore annual exports goal ahead of the 2030 target.

This assumes significance in view of the General Budget 2025 announcement of a five-year Cotton Mission to increase productivity of cotton, especially extra-long staple varieties.

It allocated ₹500 crore for the National Cotton Technology Mission.

Speaking at the Bharat Tex 2025, Modi said, "We are currently ranked as the sixth largest exporter of textiles and apparel in the world, with textile exports valued at approximately ₹3 lakh crore. Our goal moving forward is to triple this figure and achieve exports worth ₹9 lakh crore.

"This success is attributed to the hard work and consistent policies implemented over the past decade, which have led to a doubling of foreign investment in the textile sector during this period." "Although I am saying 2030 here, but the mood I saw (at the exhibition) today, I feel you may prove my figures wrong," he said, expressing optimism that the textiles exports target may be achieved ahead of 2030.

He projected that India's textile recycling market could reach ₹400 million in the next few years, while the global recycled textile market is estimated to reach $7.5 billion.

He said with the right direction, India could achieve a larger share in the market.

The Prime Minister said the country's textile and apparel exports have registered a growth rate of 7%.

This success is attributed to the hard work and consistent policies implemented over the past decade, which have led to doubling of foreign investment in the textile sector during this period, he said.

The sector is a major employment generator and contributes 11% to the manufacturing sector.

Highlighting the need for optimal utilisation of resources and minimal waste generation for the industry, he said, "According to an analysis, by 2030, fashion waste is expected to reach 148 million tonnes. Today, one-fourth of textile waste is not being recycled. Our textile industry can turn this challenge into an opportunity."

Speaking about the Mission for Cotton Productivity announced in the Budget, he said it will make cotton supply reliable, make Indian cotton globally competitive and strengthen value chain.

Bharat Tex, being held in New Delhi from February 14-17, is the textile industry's largest event and comprises a mega expo.

India is moving ahead in the direction of manufacturing high-grade carbon fibre, he said.

Modi also asked banking sector representatives to understand the needs and priorities of the textile industry, and urged them to provide assistance to the textile sector where one unit needs an investment of just ₹75 crore, but employs 2,000 people.

"Our focus is on technical textile sector, as India is making its presence felt in this space," he said.

The Prime Minister outlined his 5F-vision for the textile sector — farm to fibre; fibre to factory; factory to fashion; fashion to foreign. This vision is creating new opportunities for farmers, weavers, designers, and traders, he said.

Modi also called upon the textiles industry to collaborate with reputed institutes like IITs to develop new tools.

"India is also moving ahead in the direction of making high-grade carbon fibre," Modi said, adding that policy decisions needed to support the textiles sector were being taken. He cited the example of MSME-related measures announced in the Budget.

He highlighted the efforts to promote the handloom sector and its authenticity through marketing initiatives. Over the past 10 years, more than 2,400 marketing events have been organised to promote handlooms. ■

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Mr. Prakash Shah, Chairman, Prashant Group of Industries felicitated with ITAMMA Life-time achievement Award stressed upon importance of 'People rather than Profit' during his journey; while the Chief Guest Ms Roop Rashi, Textile Commissioner advised to concentrate on 'Ecology rather than Economics' during ITAMMA Award (2023/24) function at i-hub Gujarat, Ahmedabad on 1st February 2025

Mr N D Mhatre, Director General (Tech) in his introductory speech informed that considering the importance of AI in today's era of digitalization, today's presentation will be helpful to our members. If we look at this technology as the opportunity rather than challenge it will help us to track the properties and characteristics of the product during it's operation from field to foreign, which is the need of the hour considering the textile industry is segmented into decentralized sector and so finding very difficult to keep track on the flow of the product.

Mr. N. D. Mhatre, Director General (Tech) delivering his opening remarks

The DATA of marketing trends plays a very vital role in planning the strategies for production, products and promotional budget for growing the business and so today's presentation will be helpful to us.

Mr. Bhavesh Patel, President, ITAMMA delivering Welcome Address

Knowing the future of Green Energy for the benefit for all of us on this planet whether to survive or grow, Tata Power Solar and ITAMMA Forge Strategic Partnership to Advance Solar Adoption in India's Textile Sector through an MoU signed between both of them.

Mr Nimish Sanghvi, Chairman , ITAMMA Gujarat Chapter introducing Mr Prakash Shah, Chairman, Prashant Group of Industries

Mr Prakash Shah, Chairman, Prashant Group of Industries felicitated with shawl by the Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt. of India, and all Office Bearers and members of Managing Committee of ITAMMA.

ITAMMA, under 'B K Mehta Technology Networking Mission' engages Academia, Research & Industry Associations, Government, Stakeholders from Textile Engineering and Manufacturing Industry on one single platform, supporting and highlighting various key innovation in the sector for the development of pilot project initiatives in partnership with the Stakeholders, thus strengthening Make in India to support ATMA Nirbhar Bharat for the development of "Viksit Bharat." The 'Letter of Intent' executed between Gujarat Student Start-up and Innovation

Mr. Prakash Shah, Chairman, Prashant Group of Industries felicitated with ITAMMA Life-time achievement Award ... Ahmedabad on 1st February 2025

Hub (i-Hub) and ITAMMA will encourage and strengthen this mission through new projects/ innovations by Start-ups.

Mr Prakash Shah, Chairman, Prashant Group of Industries felicitated with "Life –Time Achievement Award" by the Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt. of India, and all Office Bearers and members of Managing Committee of ITAMMA.

Mr. Bhavesh Patel, President, ITAMMA welcomed all the dignities with bouquet and mentioned that ITAMMA and it's members have bagged the opportunity of transforming digitally in order to be with the changing trends Globally, and so ITAMMA also gets encouragement in organizing such programs on latest technologies for its members.

Mr Prakash Shah, Chairman, Prashant Group of Industries delivering his speech

ITAMMA Make in India Award -Award Maksteel Wire Healds Pvt. Ltd., Vadodara. Mr. Arpit Ramesh Sidhpura & Ms. Pooja Arpit Sidhpura-Directors of the Company

Accordingly ITAMMA is working very closely with important agencies like TATA, i-hub etc to help members to face the Global challenges in Technology and Business.

ITAMMA's Environment Friendly Award during 2023/24 Prashant West Point Machinery Pvt. Ltd Ms Amoli Shah, Director of the Company

SPECIAL AWARD FOR MICRO & SMALL ENTERPRISES Super Tex Industries, Mumbai Mr. Dipak Baraiya, Sr. Sales Executive of the Company

HIGHEST EXPORT EXCELLENCE AWARD (Textile Machinery Parts & Accessories) Maksteel Wire Healds Pvt. Ltd., Vadodara. Mr. Arpit Ramesh Sidhpura & Ms. Pooja Arpit Sidhpura-Directors of the Company

Mr Prakashbhai Shah, ***Chairman, Prashant Group of Industries stressed upon importance of 'People rather than Profit'*** was felicitated with "Life –Time Achievement Award" by the Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt. of India, and all Office Bearers and members of Managing Committee of ITAMMA. Mr Nimish Sanghvi, Chairman, ITAMMA Gujarat Chapter introduced Mr Prakash Shah, Chairman, Prashant Group, and Prasad group of Industries and PPI Pumps. He is having

Mr. Prakash Shah, Chairman, Prashant Group of Industries felicitated with ITAMMA Life-time achievement Award ... Ahmedabad on 1st February 2025

1000 people. Prashant Group is a leading group of India to provide one stop solution for world class weaving preparatory through various European and U.S. collaborations. Group is enjoying no 1 position in India. Prasad group is the largest group in India in the field of Plastic Auxilliary equipment with various European collaborations and joint ventures. PPI Pumps is a leading manufacturer of India to make liquid ring vacuum pumps. Mr. Prakash Shah has been honoured with 'RAJIV GANDHI NATIONAL UNITY AWARD' for Outstanding services, achievements and contributions.

SECTOR BASED EXPORT EXCELLENCE AWARD [Accessories Sector: Large Scale Manufacturers - Spinning] Lakshmi Ring Travellers (Coimbatore) Pvt. Ltd., Coimbatore Mr. J. M. Balaji, Vice President of the Company

SECTOR BASED EXPORT EXCELLENCE AWARD [Accessories Sector: Large Scale Manufacturers - Weaving] Maksteel Wire Healds Pvt. Ltd., Vadodara. Mr. Arpit Ramesh Sidhpura & Ms. Pooja Arpit Sidhpura-Directors of the Company

SECTOR BASED EXPORT EXCELLENCE AWARD [Accessories Sector: under MSME category] Spinning Precision Rubber Industries Private Limited, Mumbai Mr. Diven Dembla- Director and Mr. Prashant Barve- Deputy General Manager (Exports) of the Company

more than 55 years of experience in the industry. After finishing his engineering in Mechanical and Electrical branch, he worked in Jyoti Industry. After that he start manufacturing liquid ring vacuum pumps in 1975. With small start of 4 person, today he has spread his work in the area of 110000 Sq. meter of world class infrastructure with more than

SECTOR BASED EXPORT EXCELLENCE AWARD [Accessories Sector: MSME-Processing] Century Inks Pvt. Ltd., Mumbai Mr. Om Prakash Mantry – Managing Director of the Company

Special Award for Dyestuff & Chemical Products Yogesh Dyestuff Products (P) Ltd., Mumbai Mr. Dipak Baraiya, Sr. Sales Executive of the Company

Jury for ITAMMA Awards Mr Avinash Mayekar, MD, SUVIN is offered the Memento by Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt. of India is offered the Memento by the Office Bearers of ITAMMA

Mr. Prakash Shah, Chairman, Prashant Group of Industries felicitated with ITAMMA Life-time achievement Award ... Ahmedabad on 1st February 2025

He has also been awarded 'AMA-ATLAS DYECHEM OUTSTANDING ENTREPRENEUR OF THE YEAR in recognition for unique contributions in introducing technological innovation, indigenous

LETTER OF INTENT executed between Gujarat Student Startup and Innovation Hub (i-Hub) (Mr. Hiranmay Mahanta, CEO, Gujarat Student Startup and Innovation Hub (i-Hub), Ahmedabad) & ITAMMA (Mr Hiranmay Mahanta, CEO, i-Hub, Gujarat Student Start-up and Innovation Hub, Ahmedabad and Mr. Bhavesh Patel, President, ITAMMA signs and exchanges the letter of Intent)

development of technology , converting threats into opportunities leading to expansion and continuous diversification. He has also been recently awarded by Divya Bhaskar for 'BHARAT KE RATNA-GUJARAT SE'. for his outstanding services as an entrepreneur. Under his leadership, The textile group- Prashant Gamatex has been awarded with Corp Excel award for the excellence in textile machinery. The award was given to Mr.. Prakash shah by respected shri Pranav Mukherjee. His Philosophy is – "We believe in creativity rather than cost" – "We believe in motivation rather than manufacturing" – "We believe in People rather than profit" Apart from business, Mr Prakash shah is actively involved in Social work, supporting various activities in the interior district of Gujarat and Bihar, like 4 schools for underprivileged children in Bihar. The activities involved in Dhrampur district of Gujarat, include residential school, vocational training, bamboo plantations, check dams, subsidised food bank and many other activities for upliftment of tribal people. He is actively involved in Art of Leaving foundation and working in upliftment of Khadi and Gramodyog and has vision to give employments to women in interior villages of India through cluster development.

MoU signed and exchanged by Mr. Shivram Bikkina, Chief-Rooftop Solar Business, Tata Power Renewable Energy Limited, Mumbai with Mr N D Mhatre, Director General (Tech), ITAMMA at Mumbai office and Mr Vishal Tiwari, Euro Premium Solar (Tata Power Solaroof) with Mr. Bhavesh Patel, President, ITAMMA during the function at Ahmedabad to promote Green Energy utilization in Textile Industry

Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt.. of India delivering Chief Guest Speech

Chief Guest Ms Roop Rashi, Textile Commissioner advised to concentrate on 'Ecology rather than Economics' She added that Sustainability needs to be given due importance to compete in today's International Market and requested all the members to submit their suggestions and/or problems to her through ITAMMA whereby her office will take efforts in working the solutions on them. Responding to environmental concerns

and demand from consumers, textile machinery manufacturers are developing technologies to address sustainability in terms of reducing manufacturing waste, saving in energy and water consumption, and producing yarns and fabrics from recycled and bio based fibers. It should be noted that sustainability and digitization are highly interrelated.

Chief Guest Ms. Roop Rashi (IA&AS) Textile Commissioner, Ministry of Textiles, Govt. of India is offered the Memento by the Office Bearers of ITAMMA

Mr. Kedar Pandya, Director, SME Program of Wadhwani Foundation delivering his presentations on " Importance of Generative AI for SME of Indian Textile Engineering Industry"

Mr. J. M. Balaji, Vice President, Lakshmi Ring Travellers (Coimbatore) Pvt. Ltd., Coimbatore delivered their presentations on " Marketing of Textile Machines and Components -it's present trend and expected in future"

Mr. Kedar Pandya, Director, SME Program of Wadhwani Foundation delivered his presentations on " Importance of Generative AI for SME of Indian

Mr. Vishal Tiwari, Euro Premium Solar (Tata Power Solaroof Authorized Channel Partner) delivered their presentations on "Revolutionizing the Textile industry with Sustainable solar Solutions"

Mr. Om Prakash Mantry, Vice-President, ITAMMA, delivering Vote of Thanks.

Textile Engineering Industry stating that three in four organizations are currently seeing ROI from their Gen AI Investment. 86% of organizations using Gen AI in production and seeing revenue growth estimate 6% or more gains, to overall annual company revenue. 84% of organizations successfully transform a Gen AI use case idea into production within six months. Once in production, organizations report an increase in annual revenue directly attributed to Gen AI in 12 or more months [for detail presentations please write to info@itamma.org]

Mr. J. M. Balaji, Vice President, Lakshmi Ring Travellers (Coimbatore) Pvt. Ltd., Coimbatore delivered his presentations on "Marketing of Textile Machines and Components -it's present trend and expected in future."

Some highlights- Key Happenings in 2024

Mr. Prakash Shah, Chairman, Prashant Group of Industries felicitated with ITAMMA Life-time achievement Award ... Ahmedabad on 1st February 2025

Trend Reversal: Signs of Recovery

- The textile and apparel market is beginning to recover following the challenges of 2023.
- Improving consumer sentiment, a gradual resurgence in demand for casual & at leisure wear and easing supply chain disruptions were the key drivers of this change.

Audience

- While the recovery remains cautious, it signals a potential positive trajectory for the industry.

Mr. Om Prakash Mantry, Vice-President, ITAMMA, in his Vote of Thanks after thanking all, mentioned that ITAMMA through its cluster development activities is already taking efforts in updating, skilling and supporting its members about latest technologies and businesses by roping in various MoU Partners and Industry Experts. We are also making them ready for the challenges expected in this digital era of AI.

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Web : www.itamma.org ■

Mega event hosted by India ITME Society ITME Technical Awards & ITME Trade Services held on 21st February 2025 at GTTS

This mega event hosted more than 1800 exhibitors in 20 Chapters and a footfall of over 1,50,000 visitors in the 6-day event period.

India ITME Technical Awards – 3rd Edition India ITME Technical Awards aims to encourage high performance, excellence and competitive edge in textile engineering as well as acknowledge the best in the industry.

ITME Trade Services: India ITME Society has always been an initiator in shaping India's textile engineering industry through its various events and has served as a gateway for new opportunities for Joint ventures, investment & manufacturing focused on textile engineering and technology. India ITME Society has now introduced "ITME Trade Services" under which the registered companies could avail multiple services such as

- Trade Enquiry Services
- Participation in International Exhibitions
- Participation in Trade Missions
- Knowledge Sessions
- Project Consultancy

Opening day of GTTES 2025 on the 21st of February 2025 unfolded more exciting opportunities for the industry.

We look forward to being your partner and metamorphose the future of textile & textile engineering industry.

For further information, please contact:
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Great privilege for Colorjet to have hosted Hon'ble Union Minister of Textiles Shri Giriraj Singh at GTE Expo

ColorJet India Ltd., a leading manufacturer of digital textile printing solutions, had the privilege of hosting Shri Giriraj Singh, Hon'ble Union Minister of Textiles; Shri Pabitra Margherita, Hon'ble Union Minister of State for External Affairs and Textiles; and Smt. Neelam Shami Rao, Secretary, Ministry of Textiles, Government of India, at its booth during the prestigious GTE Expo collocated with Bharat Tex at Noida Expo Mart.

The esteemed dignitaries explored ColorJet's advancements in cutting-edge textile printing technology, engaging in insightful discussions with the company's leadership. The visit underscored ColorJet's unwavering commitment to the Make in India initiative, highlighting its pioneering efforts in developing advanced, sustainable textile printing solutions that align with the Government's vision of Atmanirbhar Bharat.

During his interaction with Mr. Madhu Sudan Dadu, Chairman, ColorJet India Ltd., Shri Giriraj Singh expressed keen interest in the spreading the technology, acknowledging its transformative potential in shaping the future of textile printing.

A ceremonial lamp lighting marked the auspicious commencement of ColorJet's participation in the expo, symbolizing innovation, progress, and sustainability.

Speaking on the occasion, **Mr. Madhu Sudan Dadu** stated:

"We are deeply honored to welcome the Hon'ble Ministers and Secretary to our booth. Their visit reaffirms the vital role of technological innovation in redefining the future of textile manufacturing in India. At ColorJet, we are steadfast in our commitment to delivering next-generation digital printing solutions that empower the industry while championing environmental sustainability."

The ColorJet booth at GTE Expo showcased its revolutionary VastraJet K2 48, a state-of-the-art fast production digital textile printer enabled with 48 heads, capable of producing 13,000 sqm/day of production. Industry leaders and visitors witnessed firsthand how ColorJet is spearheading a new era of high-speed, textile printing solutions.

With an unwavering focus on propelling the Indian textile industry toward global competitiveness, ColorJet continues to lead the way in pioneering innovations that drive self-reliance and long-term growth in the sector.

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❐

SanMar tiesup with bluesign®, Reinforcing Its Leadership in Sustainability

SanMar Corporation, one of the largest suppliers of promotional products in the United States, is excited to announce it has joined bluesign® as a System Partner. This move underscores SanMar's commitment to sustainable manufacturing and responsible chemical management, reinforcing its position as a leader in the promotional products industry.

As a bluesign® System Partner, SanMar joins a global network of companies dedicated to reducing the environmental impact of textile production. By

integrating bluesign® standards into their supply chain, SanMar will ensure that their supply chain continues to meet the highest environmental and safety criteria, aligning with their long-term sustainability goals.

"SanMar's decision to partner with bluesign® is a testament to their dedication to sustainability and responsible manufacturing," said Daniel Rüfenacht, CEO of bluesign technologies ag. "Their leadership in the promotional products sector makes this partnership particularly significant. We are proud to support SanMar in their journey towards a more sustainable future, and we look forward to seeing the positive impact they will have on the industry."

Through system partnership, SanMar is taking significant steps to enhance the sustainability of its product offerings, from material sourcing to production processes. By adopting bluesign® standards, SanMar is not only contributing to environmental conservation but also continues their commitment to ensuring that its products are safe for consumers and the planet.

"The awareness and importance of sustainability is growing within our industry, and we're excited to add bluesign® to our bench," said Emily Gigot, Senior Manager of Sustainability at SanMar. "We look forward to leveraging the bluesign system and their team of experts to improve our programs and to continue providing our customers with products made to the highest environmental standards."

About SanMar

At SanMar Corporation, we do more than make and sell t-shirts. We build meaningful connections that elevate lives. As the largest supplier of wholesale imprintable clothing and accessories in the United States, our products, and the connections they create impact organizations, individuals, and the world we live in. It all started more than 50 years ago with a business philosophy that has held true since day one: Be Nice and Tell the Truth. Family owned and operated, SanMar is based in Issaquah, Washington, with nine distribution centers nationwide and apparel from more than 30 celebrated brands. For more information, visit sanmar.com and follow us on LinkedIn, Instagram, and Facebook.

About bluesign®:

bluesign® is a global leader in sustainable textile production, ensuring that harmful substances are eliminated from the manufacturing process and that environmental and safety standards are met. Since its founding in 2000, bluesign® has partnered with over 850 manufacturers, brands, and chemical suppliers worldwide, driving transformative change in the textile industry.

For further information, please contact:
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Monster Digital expands its Significant Production Capacity with the Adoption of 10 Additional Kornit Apollo Systems During 2025

- On demand manufacturer serves the world's largest global brands, retailers and e-commerce platforms
- Operates three locations, nearshore and onshore, running 24/7, promoting new product delivery and replenishments anywhere in the US within 1-3 days after receiving an order
- Significant investment in Kornit Apollo fleet is a continued step in company's digital transformation, shifting millions of bulk production impressions from screen to digital

Digital is significantly ramping up its digital production with 10 additional Kornit Apollo systems during 2025, expanding its on-going transition from screen printing to digital textile production. Headquartered in Miami Florida, Monster Digital is a US enterprise leader in on demand manufacturing of apparel and accessories, serving the largest global brands, retailers and ecommerce platforms. Traditionally a private label screen printer, the company has significantly expanded its digital production during the past several years – including building a fleet of 7 Apollos and 47 Kornit Atlas MAX systems. The expansion of 10 additional Apollos during 2025 will be executed in a mix of capital purchases and Kornit's new All-Inclusive Click (AIC) Model. This major expansion will enable the company to

capture massive new opportunities, and better meet existing customer demands, by shifting significant bulk production impressions from screen to digital production. "Kornit's innovation with the latest Apollo system has been a true game-changer for our business. Now we can move more screen volume to digital with no compromises," said Chief Operating Officer of Monster Digital, Scott Valancy. "Apollo is changing the way we manage order flow – with the ability to produce digitally at levels of speed and quality the industry has never seen. We are excited with the growth opportunities Apollo opens for us and look forward to providing the ultimate customer experience."

Miami-based Monster Digital is dramatically expanding its digital production with the addition of 10 new Kornit Apollo systems during 2025 - adding to its current fleet of 7 Apollos and 47 Kornit Atlas MAX systems

"The industry is changing, and world-class manufacturers are transforming their businesses to better align with demands of today's brands and retailers to capture new opportunities. For companies like Monster Digital, Kornit solutions are the engine driving this transformation," said Ronen Samuel, Chief Executive Officer at Kornit Digital. "We're proud of our long-standing relationship with Monster Digital – and are fully committed to helping them achieve success."

Ready to experience the power of Kornit Apollo? Learn more about how the system is helping industry leaders like Monster Digital transition from screen printing to powerful digital production.

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 and states worldwide. To learn more about how Kornit Digital is boldly transforming the world of fashion and textiles, visit www.kornit.com.

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Breathing new life into fashion: Promising fashion designer Harsh Vardhan holds the hands of Liva Fabrics

Promising fashion designer Harsh Vardhan Jalan has joined forces with Liva Fabrics, the premium offering from the house of Birla Cellulose, to present an extraordinary couture collection that redefines sustainable fashion. The collection, inspired by "Prana"—the ancient Indian concept of the vital life force—showcases a harmonious blend of cultural heritage, modern innovation, and environmental consciousness.

This ground-breaking collection celebrates the interconnectedness of life, resilience, and adaptability, exploring the enduring spirit of nature and humanity. Crafted from innovative materials, including repurposed waste fish scales, the designs blend traditional craftsmanship with contemporary aesthetics. Techniques such as crochet, traditional

embroidery, and distressed yarn intertwining form the foundation of bold, surreal silhouettes that speak to a culturally rooted design philosophy.

Commenting on the collaboration, Mr. Sree Charan, Vice President Marketing and Global Head of Brands at Birla Cellulose, Aditya Birla Group, said, "At Liva, we believe in championing sustainability while delivering fabrics that inspire creativity. Collaborating with Harsh Vardhan Jalan has been a journey of innovation and purpose, as this collection embodies the perfect synergy of nature, fashion, and artistry. It's a testament to how sustainability can fuel unparalleled design excellence."

The color palette of the collection symbolizes the cycle of life, death and renewal, drawing inspiration from the essence of trees and their journey through time. The designs aim to evoke a deeper connection to nature while celebrating the strength and beauty of the human spirit.

Speaking about the inspiration behind his collection, Harsh Vardhan Jalan shared, "'Prana' is a deeply personal concept to me, as it reflects the flow of life that connects every being. Working with Liva Fabrics allowed me to bring this vision to life through sustainable materials and techniques that honor our cultural heritage while embracing modern aesthetics. This collaboration is a reflection of our shared commitment to innovation, artistry, and the planet."

The collection redefines luxury fashion by fusing sustainability with innovation, featuring eco-friendly fabrics and impeccable craftsmanship that aligns with the values of conscious consumers who seek value. A landmark in sustainable fashion, it brings Harsh Vardhan Jalan's visionary designs to life with Liva's revolutionary fabrics, proving that fashion can inspire meaningful change

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Andheri (West), Mumbai-400053
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Lenzing emphasizes on Innovative Industrial Safety at OSH India

The Lenzing Group, a global leader in wood-based specialty fibers, made a significant impact at OSH India 2024, held at the Bombay Exhibition Centre. The event, renowned for fostering innovation and safety solutions, provided an excellent platform for Lenzing to highlight its commitment to sustainability and innovation.

At the event, Lenzing highlighted its TENCEL™ fibers workwear and LENZING™ fibers with FR technology protective wear. Designed to meet the most stringent safety and performance standards, these fibers offer superior comfort, durability, and flame-resistance while promoting sustainability through eco-friendly production processes. The products cater to diverse industries, ensuring enhanced safety without compromising environmental responsibility.

Through interactive displays and expert consultations, Lenzing showcased how its

solutions address the challenges of modern workplaces, including ensuring worker safety, meeting compliance standards for protective and workwear. The presentations underscored Lenzing's unwavering focus on innovation that supports both people and the planet.

Commenting on the participation, Avinash Mane, Senior Commercial Director for AMEA & NEA of Commercial Textiles at Lenzing Group, said, "Our participation in OSH India 2024 reflects Lenzing's commitment to delivering innovative, high-performance solutions for industrial safety. By integrating innovation into workwear and protective wear, we aim to lead the transition toward safer and greener workplaces. Events like OSH India are invaluable for connecting with industry leaders and showcasing our capabilities in addressing the evolving needs of occupational safety."

Lenzing extends its gratitude to the organizers of OSH India 2024 for providing a platform that fosters collaboration and innovation, driving the future of workplace safety and sustainability.

About the Lenzing Group

The Lenzing Group stands for the ecologically responsible production of regenerated cellulose fibers based on cellulose and recycled material. As an innovation leader, Lenzing is a partner to global textile and nonwoven manufacturers and drives many new technological developments. The Lenzing Group's fibers are the raw material for a wide range of textile applications – from functional, comfortable and fashionable clothing through to durable and sustainable home textiles. A range of LENZING fibers is also certified by TÜV AUSTRIA for the following properties: biodegradable in soil, fresh water and marine environment as well as compostable in home applications and industrial facilities.

The Lenzing Group's business model extends far beyond that of a conventional fiber producer. Together with its customers and partners, Lenzing develops innovative products along the value chain, creating added value for consumers. The Lenzing Group strives for efficient utilization and processing of all raw materials used and offers solutions for the transformation of the textile industry from the current linear economic system to a circular economy. In order to reduce the rate of global warming and thereby also support the goals of the Paris Agreement and the EU Commission's Green Deal, Lenzing has a clear, science-based climate action plan that aims for a significant reduction in greenhouse gas emissions by 2030, and a net-zero target (Scopes 1, 2 and 3) by 2050.

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Virgio redefining sustainability under leadership of Amar Nagaram

Amar Nagaram, a passionate technology enthusiast with extensive experience in building innovative products from the ground up. He has a proven track record of leading teams to achieve their goals and consistently delivering results that meet business requirements. Amar thrives in challenging situations, leveraging his strong analytical and interpersonal skills to drive growth and individual excellence. Always eager to learn new concepts, ideas, and strategies, he stays at the forefront of technological advancements to ensure his work remains cutting-edge. Amar is dedicated to providing customers with an exceptional service experience at all times, reflecting his commitment to excellence and customer satisfaction. His leadership, combined with his enthusiasm for technology and innovation, positions him as a key driver of success for his fashion-tech startup, Virgio.

Career Graph

With a career spanning over 17 years, Amar has held key leadership positions at Flipkart, India's leading e-commerce marketplace and was the former CEO of Myntra, prior to founding Virgio, Amar played a pivotal role at Myntra, one of India's largest fashion e-commerce platforms. As the head

of Myntra, he led numerous successful initiatives, including scaling the platform's operations, enhancing user experience, and integrating advanced technologies to streamline processes. Under Amar's leadership, Virgio has emerged as a trailblazer in the fashion tech industry, offering a unique blend of technology and fashion to create personalised shopping experiences.

Strides of success

Virgio, a pioneering circular fashion brand that specialises in crafting stylish, eco-friendly apparel tailored for the conscientious generation. Emphasising sustainable materials and ethical production practices, Virgio seamlessly integrates fashion-forward designs with a commitment to environmental responsibility. The brand caters specifically to the dynamic lifestyle of environmentally aware youth, offering a distinctive combination of trendiness and sustainability. Amar's strategic vision has propelled the company to new heights, establishing it as a leader in the market.

Amar Nagaram
CEO and Co-founder of Virgio

Who is Amar Nagaram outside the boardroom?

Amar is passionate about challenging the status quo and constantly learning, a trait that drives him to make the most of every moment. This dedication to growth is reflected in his professional and personal life. He loves to travel and explore new places, often combining work with his passion for experiencing diverse cultures. As his career takes him to various locales, he makes it a point to immerse himself in local novelties, believing that first-hand experiences are the best way to truly understand a place. This approach not only enriches his personal life but also enhances his professional perspective, allowing him to bring fresh insights and ideas to his work. Whether navigating new business challenges or exploring a new city, Amar's commitment to learning and exploration remains a constant driving force.

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Oerlikon Barmag and Evonik leading suppliers in their respective market – strategic partnership in the growing market for chemically recycled PET

Oerlikon Barmag and Evonik have announced their cooperation to promote chemical recycling of Polyethylene terephthalate (PET) waste. Both companies are committed to develop technologies for robust and efficient depolymerisation and purification processes, coupled with an integrated concept for repolymerisation and the associated EPC business models.

Oerlikon Barmag and Evonik are both leading suppliers in their respective key markets. The Remscheid based machine and plant manufacturer Oerlikon Barmag contributes its expertise in polymer processing for the production of chemical fibers and packaging materials to the new partnership. In addition, as a core brand of Oerlikon Manmade Fibers Solutions of the Swiss Oerlikon Group, the company has excellent international market access in the polymer processing industry.

Evonik is one of the world's leading manufacturers of specialty chemicals, dedicated to driving sustainability initiatives and developing next-generation solutions. The partnership with Oerlikon Barmag aims to advance technology and process solutions for the chemical recycling of PET, leveraging innovative catalytic processes.

Investing in a sustainable future

The partners plan to fully launch and commercialize the jointly developed chemical recycling technology solution by the end of the current decade. The intensive involvement and active participation of other companies within the ecosystem (including feedstock, technology and production) and the establishment of a global development partner network are planned.

"We are firmly convinced that with Evonik we gained a strong and experienced partner in the field of specialty chemicals, and together we will establish a significant market position as a total solution provider in the growth market for chemical recycling of PET, but also drive the next generation of sustainability within the plastics industry," says Georg Stausberg, CEO of Oerlikon Manmade Fibers Solutions.

"This partnership marks a great step forward in the chemical recycling of PET. Our new

catalytic processes and chemical technologies will complement the current mechanical recycling approach enabling high recycled PET content from heavily contaminated and mixed PET waste that would otherwise be incinerated or landfilled. This way we are actively supporting a sustainable circular economy," said Max Preisenberger, Head of Catalysts at Evonik.

Jochen Adler, CTO, and Georg Stausberg, CEO, both Oerlikon Manmade Fibers Solutions, Dr. Max Preisenberger, Head of Catalysts at Evonik, Lukas Adamek, Head of Strategy & Business Development Oerlikon Manmade Fibers Solutions, and Dr. Gerd Löhden, SVP R&D Smart Materials Evonik at the official founding of the new partnership between Oerlikon Barmag and Evonik.

Seamless integration into PET production processes

The PET recycling technology will bring numerous advantages. From a chemical perspective it is a highly efficient process, and it can be seamlessly integrated into existing PET production processes. Operational costs, investment cost and scalability are the key drivers in the development.

The combination of cooperational know-how in catalyst and process technologies will allow a chemical recycling of polyester materials from many closed- and open-loop sources, which need chemical technology to allow for high, fossil-like recyclate qualities.

"The strong and complementing technological knowhow and expertise of both companies in combination with Oerlikon Barmag's market access and PET processing knowhow, establishes a competitive and unique partnership within the emerging chemical PET recycling industry. With the goal of creating a circular economy for all types of PET waste that is currently incinerated or landfilled, we want to scale our technology to a significant size and make it available to global PET producers and processors. In this way we will enable our customers to become more sustainable and contribute to a circular economy," explains Lukas Adamek, Head of Strategy & Business Development of Oerlikon Manmade Fibers Solutions.

About Oerlikon Manmade Fibers Solutions

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, Oerlikon Manmade Fibers Solutions is one of the leading providers of manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. As a future-oriented company, the research and development are driven by energy-efficiency and sustainable technologies (e-save). With its range of polycondensation and extrusion systems and their key components, the company caters to the entire manufacturing process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off with automation and Industrie 4.0 solutions. The primary markets for the product portfolio of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Worldwide, Oerlikon Manmade Fibers Solutions has about 2,500 employees and a presence in 120 countries with production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly qualified engineers, technologists and technicians develop innovative and technologically leading products for tomorrow's world.

Oerlikon Manmade Fibers Solutions is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 12 600 employees and generated sales of CHF 2.7 billion in 2023.

For further information: www.oerlikon.com

About Evonik

Evonik is one of the world leaders in specialty chemicals. The company is active in more than 100 countries around the world and generated sales of €15.3 billion and an operating profit (adjusted EBITDA) of €1.66 billion in 2023. Evonik goes far beyond chemistry to create innovative, profitable, and sustainable solutions for customers. More than

33,000 employees work together for a common purpose: We want to improve life today and tomorrow.

The Smart Materials division includes businesses with innovative materials that enable resource-saving solutions and replace conventional materials. They are the smart answer to the major challenges of our time: environment, energy efficiency, urbanization, mobility and health. The Smart Materials division generated sales of €4.46 billion in 2023 with more than 8,100 employees.

Disclaimer

In so far as forecasts or expectations are expressed in this press release or where our statements concern the future, these forecasts, expectations or statements may involve known or unknown risks and uncertainties. Actual results or developments may vary, depending on changes in the operating environment. Neither Oerlikon Barmag or Evonik Industries AG nor its group companies assume an obligation to update the forecasts, expectations or statements contained in this release.

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Mayer & Cie makes a business cooperation with Total Energies in production of stainless oil

Total Energies and Mayer & Cie. co-brand the Tixo Stainless knitting machine oil range

Under a new partnership agreement between Total Energies Lubrifiants and Mayer & Cie. signed, the Tixo Stainless co-branded product range will be sold by Mayer & Cie.'s expert distributors worldwide to their customers.

Mayer & Cie Signed on February 6, 2025, this new agreement allows the two leaders to join forces to combine Total Energies' Tixo Stainless oils, one of the highest performance knitting machine lubricants, with one of the best knitting machines available on the market.

Total Energies Lubrifiants is one of the world's leading suppliers of oils for knitting machines. Its range of Tixo products, specially designed to meet the requirements of knitting machines and approved by key manufacturers, is one of the best oils available on the market for lubricating needles, needle beds, sinkers and knitting cams on knitting machines. They are also compatible with all types of yarn. Tixo knitting oils have been developed to offer the best washability at low, medium and high wash temperatures, without compromising mechanical performance. This ensures adequate lubrication of machine components, guaranteeing machine reliability and the quality of the knitted fabrics produced.

Mayer & Cie., a German company founded in 1905, is a long-established, premium manufacturer and supplier of large-diameter circular knitting machines. As a trailblazer in the sector, setting standards while developing new processes and approaches, the company is further distinguished by its strong expertise and market knowledge. Benjamin MAYER, Managing Partner Mayer & Cie. said: "We are excited to offer our circular knitting machine customers a premium-quality machine and needle oil, adding yet another element to ensure exceptional performance."

Founded on shared values and a common passion for innovation, this agreement reflects both partners' commitment to meeting their customers' specific needs with highly advanced, high performance solutions. The partnership also embodies TotalEnergies Lubrifiants' expertise in knitting machines lubrication as several world's key knitting machine manufacturers place their trust in the Tixo range, which Mayer & Cie. has just joined. For Rainer KEIEMBURG, Vice President for Industrial Lubricants at TotalEnergies Lubrifiants, "It is an honor to welcome Mayer & Cie. as one of our key partners. Combining their circular knitting machines with our lubricants was an obvious choice for me, and I am delighted to collaborate together to fully satisfy their customers."

About TotalEnergies' Lubricants division

TotalEnergies is a leading global manufacturer and marketer of lubricants, with 42 production sites around the world and more than 5,800 employees in 160 countries. TotalEnergies' Lubricants

division offers innovative, high-performance and environmentally friendly products and services, developed by its R&D centers, which employ over 130 researchers. TotalEnergies' lubricants division is a key partner for players in the automotive, industrial and marine markets.

About Mayer & Cie.

Mayer & Cie. (MCT) is one of the world's leading manufacturers of circular knitting machines. The company offers the full range of machines needed for the production of modern textiles – from fabrics for home textiles, sportswear, nightwear and swimwear, seat covers and underwear to technical textiles. In addition, Mayer & Cie. regularly develops new approaches.

Since 2019, Mayer & Cie. 's service portfolio has been supplemented by the production of braiding machines. They are used to manufacture sheaths for hydraulic hoses, for example for use in aviation, the automotive industry or other special niche applications.

Founded in 1905, Mayer & Cie. has around 400 employees, including about 300 at the Albstadt site. In addition to its headquarters in Albstadt, Germany, and its subsidiaries in China and the Czech Republic, Mayer & Cie. is represented in a total of around 80 countries through its sales partners in the field of circular knitting and braiding machines.

About TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas and green gases, renewables and electricity. Our more than 100,000 employees are committed to provide as many people as possible with energy that is more reliable, more affordable and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects and its operations.

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Circulose tiesup with Canopy to transform supply chains and protect forests

Today, Circulose has pledged to support Canopy's mission to reduce the use of Ancient and Endangered Forests in their textile supply chains, and joined solutions-driven non-profit Canopy's CanopyStyle and Pack4Good initiatives. This bold commitment underscores Circulose's dedication to protecting climate-critical forests and global biodiversity.

As part of our commitment to CanopyStyle, we enable brands to replace virgin materials with our Next Gen alternative, CIRCULOSE®, a material made out of 100% discarded textiles, helping to reduce the environmental footprint of fashion.

This announcement comes at a pivotal moment, with demand for man-made cellulosic fibre (MMCF) textiles and paper packaging surging. Over 3.4 billion trees are logged annually for packaging and fabrics. Protecting forests is one of the fastest, most cost-effective strategies for combating climate change, preserving biodiversity, and safeguarding our shared future.

"We're thrilled to welcome Circulose into the CanopyStyle and Pack4Good initiatives," said Nicole Rycroft, Canopy's Executive Director. "Their commitment to transforming supply chains and embracing circular alternatives is a vital step forward in our collective effort to keep forests standing, species thriving, and carbon safely stored."

"Everyone has a role to play, and collaboration is key — but bold action is essential to protect natural ecosystems. A big thank you to Canopy for inspiring action and being such a strong advocate for our planet! Together, we are making a difference with CIRCULOSE®. A proven product made entirely from discarded textiles that replaces virgin materials at scale. Available globally, this validated material delivers the same look and feel, transforming yesterday's textile waste into tomorrow's fashion." — Dr. Anna Sammarco, Senior Director of Circular Business Development and Strategy, Circulose.

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About Canopy

Canopy is a solutions-driven environmental nonprofit dedicated to protecting the world's forests, species, and climate. Working with 1000+ brands, Canopy drives transformative action to eliminate the use of Ancient and Endangered Forests in textiles and packaging while scaling Next Gen Solutions.

About Circulose

Circulose is a Swedish sustain-tech company that developed a patented process that enables the recycling of cellulosic textile waste, transforming it into a new material called CIRCULOSE®. Fast Company named Circulose (formerly Renewcell) one of the World's Most Innovative Companies in 2021 and was a winner of the 2023 World Changing Ideas Awards. CIRCULOSE® was also included on TIME Magazine's list of the 100 Best Inventions 2020. Founded by innovators from Stockholm's KTH Royal Institute of Technology in 2012, the award-winning company's vision is to make fashion circular.

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Asteks emphasises on increasing value and power in export markets in 2025

Asteks, increasing its export target in 2025, will show that it offers the best products and service at the 6 international textile exhibitions it will participate in. In addition to its apron and cots portfolio, the company will underline the value it adds to the textile industry with its grinding, cots UV surface treatment and automation solutions.

Asteks, a leading manufacturer of high-quality and durable apron and cots varieties as well as advanced grinding, UV surface treatment and automation solutions, has increased its targets for 2025 after successfully closing 2024. Asteks exhibited its high value-added, advantageous products and solutions and established new business connections by participating in numerous international textile exhibitions last year, and will continue this strategy in 2025. The company will present new products that will both strengthen its brand perception and offer advantages to textile manufacturers by participating in exhibitions in 6 regions where the pulse of the global textile industry beats. The exhibitions that the company will participate in are as follows; Saigontex 2025 (9-12 April), IGATEX Pakistan 2025 (24-26 April), CAITME 2025 (09-11 September) and ITMA ASIA + CITME 2025 (28-31 October).

Asteks Overseas Sales Manager Taner Engin stated that in addition to the contraction in the global market in 2024, the economic conditions in our country are challenging manufacturers and exporters, emphasising that they have demonstrated successful performance as Asteks despite these negativities. "Our company, which has a deep-rooted history and strong capacity, has made significant progress in the global market with both apron and cot products and technology class machine groups. Our export-oriented growth strategy is progressing successfully. For this purpose, we position ourselves on the axis of flexibility and diversity, without being tied to a single market and a single product. In this way, Asteks has become a demanded brand in many places from Uzbekistan to Egypt, from Pakistan to Bangladesh," he said.

Engin noted that the growth of the machinery segment by over 25% was effective in the total turnover increase of Asteks in 2024, and explained that Uzbekistan stood out as the most important market with the largest sales share in this process. He explained that the positive development in the Egyptian market in recent years has also started to be reflected in export figures and that the demand for aprons, cots and grinding solutions has also increased following the yarn investments in this market. Engin shared the following information: "Investments in capacity increase in the Turkmenistan market also contribute positively to our sales. In addition, when we are in a strong position, we plan to increase our volume in Bangladesh even more. Europe, Brazil, Vietnam and China also found a place in our sales with certain levels of figures." He noted that they expect the share and volume of export markets in total turnover to exceed the previous year in 2025, and that for this purpose, works are being carried

out for market and product diversification and strengthening ties with local representatives.

Egypt stands out among target markets with its high potential

The first important exhibition that Asteks participated in this year and show its solutions got Egy Stich & Tex 2025 to be held in Cairo on February 20-23. Taner Engin stated that they have been participating in this event regularly since 2020, and emphasized that Asteks is among the important suppliers of the market with its advanced technologies and long-lasting products. "We will be displaying the automation and efficiency advantages provided by the combined operation of the 401-SFM grinding machine and the UV-305 Cots surface treatment machine at our booth at the exhibition. In addition, our apron and cots range, which constitute our main product group, and complementary products were presented to visitors at our booth. The Egyptian textile industry with a high potential, moved its ranks even higher among target markets in the coming period," he said.

Astek strengthens brand perception and value in the Bangladesh market

DTG Textile Garment Machinery 2025 in Bangladesh, which Asteks attended simultaneously with the Egypt exhibition, is also of great importance. Asteks has been regularly participating in the exhibition in Dhaka for many years and introducing its products and has already achieved high brand recognition in the market. Preparing to present its solutions to visitors with its local dealers and partners, Asteks has significant power in this market with both its grinding and apron and cots products. Many leading Bangladeshi yarn manufacturers prefer Asteks solutions due to their high quality, durability and efficiency.

Vietnam and Pakistan exhibitions will open doors to new opportunities

Asteks has two events on its exhibition agenda in April; SaigonTex 2025 on April 9-12 and IGATEX Pakistan 2025 on April 24-26. The Far Eastern country of Vietnam is considered a rising star with its geo-strategic location and production power. Asteks, which has been participating in SaigonTex exhibitions since 2022, will meet with the local sector at its booth this year to introduce all product segments and strengthen the brand perception.

Taner Engin said that Pakistan is an important textile manufacturer both in the region and globally, expressing that they are in a strong position in this market. "We have effective and strong references in Pakistan with both our grinding machines and aprons and cots. Leading manufacturers of the sector continue their production with Asteks solutions. We will be ready with our representatives to further strengthen our market network at IGATEX Pakistan 2025," he continued.

Uzbekistan remains the largest market for Asteks solutions

Uzbekistan with the largest share in Asteks' exports, continues to strengthen this position with new investments. Taner Engin announced that they received more demand with the new yarn investments in Uzbekistan, and explained that they worked in cooperation with the strong local representative to offer the best solutions. "With Asteks branded aprons and cots, our machinery park has both a better price-performance ratio compared to its competitors and creates more added value to operating costs. We will hold meetings with textile manufacturers for new business opportunities at the CAITME 2025 to be held in Tashkent on September 9-11," he disclosed.

Asteks takes its place at the first ITMA ASIA + CITME in Singapore

The last exhibition that Asteks will attend in 2025 will be ITMA ASIA + CITME, the most important meeting platform in Asia for the global textile industry that moved from Shanghai to Singapore, to be held on October 28-31. Taner Engin stated that they will attend the event with a strong presentation, saying: "We will give the message that we are together with the textile industry and offer them the best and advantageous solutions, as we do in other events. ITMA has always been an important exhibition for the textile industry that brings together manufacturers and suppliers. We will show our difference with our R&D product technologies and the best aprons and cots at a global event. ITMA ASIA + CITME will also be an important event in determining our 2026 targets and expectations for export markets."

Asteks has been empowering the industry and bringing innovation for 55 years

Asteks Marketing and Sales Manager Sabri İlknur emphasized that they have been developing automation solutions with aprons, cots and grinding technologies for the global textile market, especially in Türkiye, since 1970. Stating that in addition

CORPORATE NEWS

to product quality, supply and service assurance also add value to their brand, İlknur noted that their recent R&D studies have transformed into innovative products and brought them to the forefront in exports. "While Asteks is transforming into a technology brand, it focuses on the future needs of the textile industry. Our machines with high automation features and Industry 4.0 compatibility eliminate manual intervention and enable the most efficient process. Asteks focuses on adding value to both itself and the textile industry by offering the power it obtains from the market as innovative products. Our customers will continue to experience the confidence and comfort of knowing that they have obtained the 'best' from aprons to cots, from grinding machines to automation solutions," he said.

About ASTEKS

Since 1970, ASTEKS has been serving the textile industry by combining its experience and quality with modern technology without deviating from the principles determined in its foundation. Today, the company continues its production with the work force reaching up to 150 employees including highly educated experts in their field at its modern facilities in 11.000 m2 open and 6.000 m2 closed area in Beylikdüzü/İstanbul.

The company is the market leader in Turkey with a far better share and also exports to more than 25 countries including Uzbekistan, Turkmenistan, Indonesia, Vietnam, China, Egypt, Bangladesh, Pakistan, Ethiopia, Peru, Mexico, Italy, Greece, Poland, France, Lithuania and Bulgaria.

In addition to rubber-based apron & cots products, Asteks has commercially started to produce machinery and equipment in 2014, in respect to the goal of offering entire and complete solutions to the yarn manufacturers by transferring its 50 years of experience in the field. Offering new generation smart system high-tech cots grinding machines, cots UV surface treatment machines, all the other roll shop equipment and automatic guided vehicle systems (AGV), the company can supply a wide range of machinery products.

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I, D. J. Dutta, hereby declare that the particulars given above are true to the best of my knowledge and belief.

Sd/- D. J. Dutta

31.3.2025 Signature of Publisher

Leading Manufacturers of Sewing Machines at Garment Tech Istanbul Exhibition

Garment Tech Istanbul 2025, the only and most comprehensive exhibition of the garment and ready-to-wear sector, will host global brands of sewing machines and the latest technologies. Dozens of manufacturers including Juki, Yuki, Brother, Dürkopp Adler, Pfaff Industrial, Pegasus, Siruba will exhibit hundreds of types of sewing machines such as industrial and household, automatic, zigzag, chain, overlock and interlock at Garment TechIstanbul 2025.

During the 4-day exhibition, visitors will be able to experience the functionality of different sewing machines equipped with innovative designs, high efficiency and user-friendly features, get information from experts and discover industry trends.

Sewing Machine Sales to Gain Momentum

As of January-June 2024, Turkiye's sewing machine exports increased by 10.15% to USD 1.608 billion. Among these, the export volume of industrial sewing machines reached 2.28 million units. Among the largest markets, India, Vietnam, Pakistan and Brazil standout, with exports to Pakistan in particular showing a huge increase of 160.46%. Turkiye's exports in Asia, Latin America and Africa showed strong growth, while its markets in Europe and North America declined slightly. Garment Tech Istanbul will significantly contribute to strengthening sales and international exports by increasing interest in Turkiye's sewing machinery sector.

The Garment Tech Istanbul; Garment, Embroidery Machines Spare Parts and Sub-Industry Exhibition, which will be held at the Istanbul Fair Center (IFM) between June 25-28, will increase interest in Turkiye's sewing machines sector and make a significant contribution to the strengthening of sales and international exports. Participating companies will have the opportunity to start new collaborations as well as increase brand awareness.

Be the First One to See Sewing Machines Equipped with the Latest Technologies!

The sewing machine sector has evolved rapidly in recent years with many technological innovations. Digital and smart machines allow users to easily select sewing patterns, and adjust speed settings and automatic thread insertion, while automated sewing functions make things faster and more error-free. Automation systems in industrial machines make production processes more efficient. While machines run quieter thanks to electric motors, IoT technology enables remote monitoring of machines and more efficient management of maintenance processes.

The exhibition, where local and foreign manufacturers focusing on R&D and innovation will meet global buyers, will host industry professionals looking to implement new technologies and direct their investments. Company managers who want to produce flawless garments quickly and cost-effectively, increase their capacity and expand their machinery will be able to experience many sewing machine functions and direct their investments at Garment Tech Istanbul Exhibition.

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Techtextil India

19-21 November 2025
Bombay Exhibition Centre, Mumabi

Unlock Your Next Big Opportunity in the $22 Billion Industry

Be at the forefront of technical textile innovation by joining India's most focused lead generation platform! The 10th edition of Techtextil India brings together leading manufacturers and resellers with decision-makers from 12+ industries. This is the perfect platform to establish a strong presence in India—the world's 5th largest technical textile market—offering immense opportunities for innovation, collaboration, and market expansion.

India: Discover more than just your next customer

- India has the fifth largest technical textiles market in the world
- Technical textiles receives government impetus from agriculture, water resources, road and railways, health, home and family welfare ministries
- Geogrids, Geotextiles, Agricultural textiles, Medical textiles and Protective textiles is likely to be in high demand in the near future

Quick links

- Brochure of the 2025 edition
- **Factsheet:** It includes key facts and figures of the show
- **Post show report** of the last edition (2023)
- Know more about **India's potential in technical textiles**

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TEXTILE EVENTS

ITMA ASIA + CITME

Singapore 2025
28-31 October 2025
Singapore Expo

Geotextiles and Technical Textiles Reshaping Infrastructure Growth

From stabilising highways to managing flood risks, technical textiles like geotextiles and filter media are playing a crucial role in South and Southeast Asia's infrastructure development.

At Pakyong Airport in India, high strength textile geogrids and nonwoven geotextiles helped overcome extreme terrain and weather challenges. Across Bangladesh, Indonesia, Malaysia, the Philippines, and Vietnam, geotextiles reinforce roads, highways, and railway tracks, enhancing durability and safety. In Thailand and Vietnam, they combat coastal erosion and flooding while nonwoven filter media improve air and water quality in fast-growing urban centres.

The cutting-edge technologies behind these advanced textiles will be on display at ITMA ASIA + CITME, Singapore 2025 where leading technology innovators will showcase advanced solutions in geotextile manufacturing, filtration systems, and technical textile production.

Maximise Your Visit to ITMA ASIA + CITME, Singapore 2025

Singapore welcomes visitors with visa-friendly policies, making it easier, especially from South Asia, to attend the exhibition and explore Singapore's rich cultural heritage, world-class attractions, and renowned dining scene.

With unparalleled connectivity from over 400 cities, Singapore provides a hassle-free travel experience. Furthermore, enjoy special hotel rates and shuttle services to/from Singapore Expo when you book through our official travel agent, Burnaby Solutions.

Be the First to Know – Stay Ahead with Exclusive Updates and Latest Industry News

- Invite your colleagues and friends from the industry to join our mailing list so that they don't miss out!
- Tell us what you would like to see at the exhibition.

We are excited to be part of the dedicated chapter for composites at ITMA ASIA + CITME, Singapore 2025. Our participation will enable us to meet customers and prospects in the Asian region in the rapidly developing markets for leading-edge composite and technical textiles such as protective materials, lightweight and structural parts across a broad spectrum of industries."

Ms Kim van den Aker, Director Operations, Van Wees UD and Crossply Technology

DiloGroup is looking forward to the Singapore edition of ITMA Asia + CITME, Singapore 2025. As an important gathering of the whole textile industry, it is a great opportunity for us to present our latest innovations."

Ms Rebekka Dilo, Management, Dilo Systems GmbH

For further information, please contact:
info@itma.com ❐

Gentexh 2025

Global Exhibition on Nonwoven & Hygine Technology

12-14 March 2025

SECC, Ho Chi Minh City, Vietnam

Don't miss your chance to be a part of GenTexh – the ultimate platform to connect, collaborate, and showcase your innovations!

Why Exhibit at GENTEXH 2025?

1. Strategic Market Access: Connect with Southeast Asia's fast-growing nonwoven and hygiene sectors, positioning your brand in a pivotal and high-demand market.

2. Expand Business Horizons: Meet top buyers, distributors, and manufacturers actively seeking innovative products and solutions, opening doors to partnerships across Vietnam and beyond.

3. Showcase Your Innovations: Highlight your latest products and technologies to an audience ready to invest in cutting-edge solutions, allowing your business to shine in a competitive space.

4. Gain Industry Insights: Access expert-led sessions, workshops, and networking events to stay ahead with the latest trends, technologies, and regulations in nonwoven and hygiene markets.

5. Boost Brand Credibility: Strengthen your brand reputation by aligning with industry leaders and enhancing visibility through Vietnam's largest nonwoven expo platform.

How to Exhibit at GENTEXH 2025?

1. Register Your Interest: Visit the GENTEXH 2025 website and complete the exhibitor inquiry form to begin the process.

Or, simply send us a WhatsApp message at +91 95125 92902 to get started right away!

2. Choose Your Booth Package: Select from various booth options tailored to your needs—whether it's a standard space or a premium showcase, GENTEXH offers a range of flexible setups.

3. Prepare Your Exhibit: Work with our dedicated team to finalize booth details, promotional materials, and logistics. Ensure your products and materials align with your marketing goals.

4. Promote Your Participation: Take advantage of GENTEXH's marketing tools. Announce your presence through social media, email campaigns, and the exhibitor listing on our site to attract visitors.

For further information, please contact:
Radeecal Exhicon
42, Ishan 3 Tower A, MCA College Road, Satellite, Ahmedabad, Gujarat, 380015, India
www.gentexh.com, Email: mktg@gentexh.com ❐

SaigonTex 2025 (35th year)

Vietnam Saigon Textile & Garment Industry Expo 2025

(Vietnam biggest textile and garment machinery, non wovens, dyes ,chemicals expo since 1990s)

9 - 12 April, 2025, SECC, Hochiminh City, Vietnam

You are invited to participate in SaigonTex 2025, please register now as over 98% of exhibition spaces already sold/reserved.

Vietnam's textile and garment industry achieved remarkable growth in 2024

Vietnam's textile and garment industry has fulfilled its 44-billion-USD export turnover target in 2024, an increase of over 11% compared to 2023. Facing the favourable market trends and new opportunities from FTAs, Vietnam is setting its sights on an ambitious export target of $47-48 billion in 2025.

Lots of activities will be held concurrent with the SaigonTex 2025, to motivate the trade and communication between buyers and exhibitors, namely, product presentation & display seminars, fashion parade, business matching, technical seminars, VIP tour etc.

Don't miss out the chance to present at SaigonTex2025 - Over 98% exhibition space has been booked, Please register now to secure your booth! For more details and registration, please visit www.sgntex.com or contact Mr Jason Chow in Hong Kong (Tel: +852 25117427, Fax: +852 25119692, Email: jason@cpexh.com, cpexh@yahoo.com, Wechat: cpexhibition) or our representative in your region.

Other CP shows in Vietnam:

HanoiTex 2025 - Hanoi Textile & Garment Industry Expo

16 - 18 December, 2025 (new Date), ICE, Viet-Xo Cultural Palace, Hanoi, Vietnam

For further information, please contact:
jason@cpexh.com ❐

KOPA's Alliance with Bharat Print Expo 2025 : Forging the Future of Printing in Karnataka

In a landmark collaboration, the **Karnataka Offset Printers Association (KOPA)** has announced its support for the upcoming Bharat Print Expo 2025, **organised by** the **All India Federation of Master Printers** in collaboration with **ReEnvision Events Private Limited,** and co-organized by **Karnataka State Printers Association (KSPA),** scheduled from April 24th to 26th at the Bangalore International Exhibition Centre (BIEC). This alliance underscores KOPA's commitment to advancing the printing industry in Karnataka and beyond, fostering innovation, and strengthening industry networks.

KOPA: A Pilar of Karnataka's Printing Community

Established in 1995, KOPA has been instrumental in representing and supporting offset printing professionals throughout Karnataka. With a diverse membership ranging from small-scale operations to large enterprises, KOPA has continually addressed industry challenges and promoted technological advancements within the printing sector. Notably, KOPA celebrated its silver jubilee in 2020, marking 25 years of dedicated service to the printing community.

The convergence of support from esteemed associations — including the **Sri Lanka Association of Printers (SLAP), Mumbai Mudrak Sangh (MMS), Maharashtra Mudran Parishad (MMP),** the **Madras Printers and Lithographers Association (MPLA),** elevates the event's prominence, fostering a collaborative environment that promises to drive the industry forward, and the **Karnataka Offset Printers Association (KOPA)** stands out as a pivotal supporter, reflecting its deep trust in the Expo's potential to shape the future of South India's printing industry. This collective endorsement not only broadens the Expo's reach but also enriches its content, ensuring attendees gain comprehensive insights into the latest industry trends and innovations.

By supporting Bharat Print Expo 2025, KOPA aims to facilitate knowledge exchange, foster collaborations, and promote best practices among printing professionals. This partnership is set to enhance the Expo's role as a catalyst for industry growth and innovation, ensuring that South India's printing sector remains at the forefront of technological advancements.

Bharat Print Expo 2025 : A Catalyst for Transformation

Poised to be South India's largest and most influential event for the printing and package converting sectors, Bharat Print Expo 2025 will showcase a comprehensive range of next-gen innovations. Attendees can anticipate exploring cutting-edge printing equipment, including offset, digital, and 3D printing technologies, as well as finishing and packaging devices, covering all facets of the modern printing industry.

With the Expo just weeks away, excitement within the industry is reaching unprecedented heights. The anticipation is palpable, as professionals across the sector prepareto converge at this premier event, eager to witness and engage with the latest advancements that are set to redefine the future of printing.

For further information, please contact:
rishabh@print-packaging.com
or visit www.BharatPrintExpo.com ■

GLI-CLEAN

A OHTC for Spinning & Weaving

BUSBAR AND CHAIN DRIVE SYSTEM:

- Pioneer to install OHTC for Ring Frames with Auto-piecer by using a tilting mechanism.
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- Conveniently suits upto 2400 Spindles/Ringframe and 280 Spindles/Speedframe.
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- In house design and manufacturing of complete OHTC.

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- In house design and manufacturing of complete OHTC.

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(Formerly known as Lakshmi Precision Tools Limited)

Arasur- 641407. Coimbatore District, INDIA. Phone: +91 422 617 3500

Email: mktg_textile@lptindia.com | Website: www.lptindia.com

LEADING PARTICIPANTS & STAKE HOLDERS AT DTG 2025, DHAKA, BANGLADESH

(From right) Mr. Bhairav Parikh of Parikh Patel & Co. Kolkata, India and Mr. Subrata Aditya of Tradeway International Dhaka, Bangladesh, A celebration of 25 years of business partnership.

Mr. Uday Piri, Regional Sales Manager, Bangladesh of Precision Rubber Industries Pvt. Ltd. in its stall at DTG 2025, Dhaka, Bangladesh

Mr. Kamlesh Shah of Embee Marketing in its stall at DTG 2025, Dhaka, Bangladesh.

Mr. J. M. Balaji, Head Marketing of Lakshmi Ring Travellers (Coimbatore) Pvt. Ltd. in its stall at DTG 2025, Dhaka, Bangladesh.

Mr. Anil Bharti , Head Export Management, Rimtex Group of Companies in its stall at DTG 2025, Dhaka, Bangladesh.

(Third from left) Mr. J. M. Akhtar, Managing Director, Sail International Ltd. & his associates in its stall at DTG 2025, Dhaka, Bangladesh.

LEADING PARTICIPANTS & STAKE HOLDERS AT DTG 2025, DHAKA, BANGLADESH

(From left) Mr. Biddut Kumar Saha, of Unitex Corporation, Bangladesh, Mr. PN Santhankkrishnnen, Director of Aspire Grand Excel Automation, Md. Ashik Chowdhury, AR Tex Solutions, Bangladesh & Mr. Saravana Vignesh Star Engineering in the stall of Aspire Grand Excel Automation at DTG 2025, Dhaka, Bangladesh.

View of the stall of Lakshmi Card Clothing Mfg. Co. Pvt Ltd. at DTG 2025, Dhaka, Bangladesh.

(From right) Mr. Debasis Datta, Export Manager of Prashant Group of Industries & his associate in its stall at DTG 2025, Dhaka, Bangladesh.

View of the stall of Lakshmi Machine Works Ltd. at DTG 2025, Dhaka, Bangladesh.

(From left) Mr. S. A. Vimal, G. M. – Sales & Marketing of AB Carter India Pvt. Ltd. & his associate in its stall at DTG 2025, Dhaka, Bangladesh.

(Third from left) Mr. Baskaran – VP – Sales & his associates in its stall at DTG 2025, Dhaka, Bangladesh.

LEADING PARTICIPANTS & STAKE HOLDERS AT DTG 2025, DHAKA, BANGLADESH

(Fourth From left) Mr. V. Jayaram Sr. Manager-Sales, Autotex Ancillaries Pvt. Ltd. with their customers in its stall at DTG 2025, Dhaka, Bangladesh.

(From right) Mr. K. Ragu, Manager – Marketing of Simta Group of Companies & Mr. Shanjoy Das in their stall at DTG 2025, Dhaka, Bangladesh.

Mr. Sundaram TS, Jt Managing Director of Super Machine Works, Pvt. Ltd. in its stall at DTG 2025, Dhaka, Bangladesh

(Second from right) Mr. Jignesh Davda, Vice President - Sales of Premier Evolvics Pvt. Ltd. & his associates in its stall at DTG 2025, Dhaka, Bangladesh.

(From Left) Mr. Naium Khan, Mr. Suhas Swant - GM Export of Supertex Industries and Mr. Jashim Uddin in their stall at DTG 2025, Dhaka, Bangladesh.

Mr. L. Nachimuthu, Managing Director of Unispin Card Clothing India , Pvt. Ltd. in its stall at DTG 2025, Dhaka, Bangladesh.

LEADING PARTICIPANTS & STAKE HOLDERS AT DTG 2025, DHAKA, BANGLADESH

(From left) Mr. Anil Yadav , Technical Marketing & Development of Moksha Thermoplastics Pvt. Ltd. , Mr. Bhairav Parikh, Partner of Parikh Patel & Co, , Mr. Subrata Aditya , CEO of Tradeway International, Bangladesh, in their stall at DTG 2025, Dhaka, Bangladesh.

(From Left) Engr. Atul Devnath, CEO, M. B. Trade Corporation & Mr Rafiullah Shahrani, International Sales Manager of ODESI Automatic Dispensing Systems in their stall at DTG 2025, Dhaka, Bangladesh

Mr. S. M. Zahid Ferdous Noman, Service Engineer of Indo Texnology in its stall at DTG 2025, Dhaka, Bangladesh.

(From left) Md. Solyman, Chairman Madina Industries, Md. Abdul Tahid Mojumder, MD. Supreme Group, Mr. D. J. Dutta, Director – Publisher of Textile Trends & Mr. Sandip B. Pawar , Director SB Dye Springs (India) Pvt. Ltd. in the stall of Textile Trends at DTG 2025, Dhaka, Bangladesh.

Mr. Subir Guha, Country Manager, Bangladesh of Inarco Ltd. in its stall at DTG 2025, Dhaka, Bangladesh.

(From Left) Mr. M. Dhaneeswar, Director, Sakthi Associates, Mr. Tapas K. Saha, CEO Lipika, Mr. R. Madhu, CEO, Sagotharen & MD. Rajak, Service Engineer, Sakthi Associates in their stall at DTG 2025, Dhaka, Bangladesh.

PROCESS CONTROL INSTRUMENTS FOR SPINNERS

DRAW FRAME TOP ROLLER LOAD GAUGE - SUNRISE NILOMETER

(For individual & independent end load measurment of top rollers)

(With 2 Dials & Planometer)

(For draw frame, comber, sliver lap, ribbon lap.)

It helps decrease Sliver CV%, Strength CV% and count CV% besides improving appearance. It is a must for better Uster Values.

SUN TARP GAUGE (TOP ARM LOAD GAUGE)

Replaceable varying sized rollers for specific roller cover size running in the mill

YARN SPLICE TESTER (PORTABLE)

ANALOG MODEL RANGE 500, 1000, 1500 & & 2000 GMS.

DIGITAL MODEL RANGE UP TO 2000 GMS. LEAST COUNT 1 GM.

DIGITAL YARN TENSION METER

RANGE UP TO 200 GMS, 500 GMS & 1000 GMS

DIGITAL MOISTURE METER

RANGE UP TO 50% (For Cone, Loose Cotton, Bale)

PACKAGE HARDNESS TESTER

(For Cone, Warp Beams, Bobbin)

DIGITAL STROBOSCOPE

LED FLASH TYPE

(For Spindle RPM Measurement)

SUNRISE INDUSTRIES

12-A Chinai Estate, Dudheswar Road, Ahmedabad - 380 004. (INDIA), M: 98252 26318
E-mail : sunriseindustriesahmedabad@gmail.com / 9825226318j@gmail.com,
Website : http//www.sunriseindustries.co.in / www.sunriseindustries.net / www.homogenisers.in

THE INTELLIGENT CARD

Next-generation intelligent carding:
The TC 26^{i}

Operator-independent high performance with the only proven T-GO gap optimizer which ensures consistent and optimal carding gaps, resulting in multi-fold increases in quality and productivity levels. Intelligent automation using data from our proven T-CON 3 system.

Up to 2% raw material savings with WASTECONTROL and new generation PMS-2 Precision Mote Knife System for the licker-in.

TRÜTZSCHLER
SPINNING

Trützschler Group SE

T-SCAN: Indian customers highly appreciate for impressive performance

Removing foreign parts from cotton is a challenging task. That's why our T-SCAN technology features multiple modules that detect contaminations and reliably eject them as part of our blowroom process. After establishing T-SCAN in cotton ring lines, our Indian customers are now enjoying the benefits of our intelligent solutions in rotor applications.

Ashish Raval, Vice President Spinning, Nandam Terry: "Installing TS-T3 and TS-T5 technologies has drastically reduced color contaminations and improved fabric appearance, satisfying high-end brands and our end users."

When cotton travels out of fields and into spinning mills, it sometimes carries a few unwelcome passengers. Leaves, stems, stones, plastic or jute particles from transport bags, bits of metal or shreds of paper can find their way into cotton bales. Some of these foreign parts sneak past the first cleaning steps in the blow room. Colored parts and plastics like polypropylene create particularly big problems for spinners: They can cause yarn breaks during spinning and weaving, take dye in a different way than the raw material and therefore show up on the surface of the final textile product. And if that happens, the yarn might get rejected or returned to the spinner! In ring spinning, sophisticated yarn clearers with an option to detect and cut polypropylene and colored contaminants are the main solution to this problem. However, the usage of such a yarn clearer in rotor spinning is in practice very limited, especially the detection of polypropylene.

The answer? T-SCAN! Our state-of- the-art system ejects foreign parts out of cotton via its comprehensive range of sensor modules for detecting contamination. The TS-T3 and TS-T5 are the latest versions of this market-proven technology. They empower spinners to maximize quality and avoid costly rejections – even when dealing with low-contrast, small or thread-like foreign parts. This technology detects and removes a wide variety of polypropylene types, such as transparent or glossy polypropylene, or polypropylene that reacts to different UV light intensities. Especially in the rotor and recycling segments, these foreign part separators can be a good solution to effectively deal with contaminants.

Muthupalaniappa M., Senior Vice President (Technical), Thiagarajar Mills Ltd.: "The TS-T5 has significantly improved our yarn quality by reducing contamination and is easy to operate and maintain, with great support from Trützschler."

Proven performance in the rotor and recycling segment

Real-world tests from Trützschler customers, particularly in rotor applications, are confirming the impressive capacity to kick out contaminations, boost quality and avoid rejections with our TS-T5 and TS-T3 systems. Nandam Terry and Nandam Denim are among those pioneering customers. The companies are one of the biggest denim manufacturers based in Ahmedabad, India. They

make 45 tons per day of denim and 10 tons per day of terry towel products. "Since installing TS-T3 and TS-T5 technologies, we have drastically reduced color contaminations with minimum ejection of cotton," says Ashish Raval, Vice President Spinning. "The appearance of our fabric has improved very much and we are now selling contaminationcontrolled yarn to high-end brands. Our end users are really happy."

Blue Rose Cotspin LLP. is happy with the performance of the TS-T3. From left to right: Ganesh Bansal (Chairman), Sawant Singh Kulhari (General Manager of the plant) Ashwani Garg (Managing Director) and Vikas Bansal (Managing Director).

Thiagarajar Mills Ltd. in Madurai, India, is a vertically integrated group in South India known for quality fine yarns and fabrics. The company runs 25 Trützschler machines to produce 250 tons of yarn per month for denim products. After successfully establishing TS-T5 in ring spinning, the customer continued with our foreign part separator in rotor spinning. "The quality of our yarn, in terms of contamination, is much improved with the TS-T5," says Muthupalaniappa M, Senior Vice President (Technical). "It is easy to operate and maintain, with improved cleaning for polypropylene. Along with great support from the Trützschler team, we are making excellent progress with the various challenges related to contamination."

Further positive feedback recently arrived from Blue Rose Cotspin LLP. This company based in northern India produces 20 tons of yarn per day, mainly for hosiery and weaving customers. "We have not received any complaints about contamination since installing the TS-T3 from Trützschler," says Ashwani Garg, Managing Director. "The performance is excellent and it's capable of ejecting all types of contamination while protecting good fibers. The auto-calibration is really valuable for us."

Kamal Kumar, Managing Director, Patiala Gold LLP: "The TS-T3's user-friendly maintenance minimizes downtime and boosts production efficiency compared to other foreign part separators"

Kamal Kumar, owner of Patiala Gold LLP, is enthusiastic about the user-friendly cleaning and maintenance of the TS-T3: "This reduces downtime to an absolute minimum without any loss of performance. Based in Samana, Punjab, the company operates twelve Trützschler cards with IDF, producing up to 30 tons of rotor yarn per day, mainly for bottomweight and bed sheets. "Compared to other foreign part separators, the production efficiency of our blow room and card lines is significantly higher with the TS-T3," says Kamal Kumar. Blue Rose Cotspin and Patiala Gold

are using the TS-T3 in rotor recycling applications, even for polycotton blends. They have also placed repeat orders for their new units based on the performance of the TS-T3.

Info: Minimal Maintenance, Maximum Effiency

The TS-T5 and TS-T3 achieve maximum foreign part separation with very low levels of good fiber loss. They are energy-efficient solutions that use up to 80% less compressed air than comparable systems. The TS-T5 and TS-T3 also have minimal requirements for cleaning and maintenance, which customers value highly. Their range of functions and detection modules are unique in the market.

About the Trützschler Group:

The Trützschler Group SE is a German textile machinery manufacturer headquartered in Mönchengladbach, Germany. The company is divided into three business units: Spinning, Nonwovens and Card Clothing. Trützschler machines, installations and accessories are produced and developed in nine locations worldwide. This includes four factories in Germany (Dülmen, Egelsbach, Mönchengladbach, Neubulach), as well as sites in China (Jiaxing and Shanghai), India (Ahmedabad), the USA (Charlotte) and Brazil (Curitiba). Local service companies in Türkiye, Mexico, Uzbekistan and Vietnam and local service teams in Pakistan, Bangladesh and Indonesia provide customer proximity in key regions for the textile processing industry. For more information visit: www.truetzschler.com

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Oerlikon

BCF yarn producer Sitong widens polyester capacities

The Chinese carpet yarn manufacturer Zhejiang Sitong New Material Technology Co., Ltd. is expanding its polyester capacities with the commissioning of an Oerlikon Neumag BCF system of the BCF S+ type. This will enable the company to ensure a balanced production of polyester, polyamide and polypropylene yarns.

With a total capacity of 50,000 tons per year, Sitong is one of the largest BCF yarn manufacturers in Asia. With the additional four BCF S+ positions for polyester yarn, the company from Hangzhou is responding to the trend towards polyester carpet yarns. In the future, Sitong will use them to produce balanced BCF yarns made of polyester, polyamide 6 and polypropylene. "Our strategy is a broad portfolio; this makes us more robust in the face of trends and market fluctuations," says Tang Liang, president and owner of Sitong. The decision in favor of Neumag was based on the good experiences. "Since our foundation in 2002, we have relied on technology from Europe; for polyester production, we only consider Oerlikon Neumag plants. We have established ourselves with our quality products in both the local and international markets; this shows that we have made the right investment decisions."

The three-end BCF system BCF S+ is extremely flexible: even in the design optimized for polyester yarn production, the system produces excellent polyamide 6 yarn

BCF S+ is flexible

The new BCF S+ Monocolor plant is designed for polyester yarn production, but it also produced excellent data during the production of polyamide 6 yarn during the commissioning process. The ability to quickly switch to the cost-effective

production of high-quality PA6 yarn gives Sitong a significant competitive advantage. "Trends are becoming increasingly short-lived. However, investing in a plant is a long-term decision. So it's a strong argument if I can spin different polymers with the same system without sacrificing the quality of the end product," Tang Liang sums up.

Carpet market in Asia is gaining in importance

The Asian carpet market is currently experiencing noticeable growth. While the focus of carpet yarn production has been in the US and Turkey so far, Chinese BCF yarn production in particular is experiencing a real boom in the post-corona years. This is due, on the one hand, to the strengthening of the Chinese automotive sector and, on the other, to the resurgence in travel. "Many hotels are currently being renovated and new ones are being built. During the pandemic, many hotels were closed, but now there is a significant backlog demand," says Sun Peng, Sales Director at Oerlikon Neumag in China, assessing the increased demand.

Junma ramps up HMLS capacities

The Chinese Junma Group has expanded its HMLS capacities by 20 positions, hence becoming one of the largest tire cord manufacturers in China. At present, the company has 64 positions of HMLS systems, all of which are from Oerlikon Barmag.

The ACW high-speed winder processes HMLS yarn at speeds of up to 6300 m/min.

Junma processes the tire yarn produced in the titer range of 1100 dtex to 2200 dtex in-house into tire cord using the downstream processes of dipping and weaving. The largest HMLS single project for Junma and Oerlikon Barmag to date was put into operation in record time. After just two weeks, the various yarn specifications were approved. "The fact that we achieved the required yarn parameters so quickly shows how reliable our industrial yarn systems are," says process engineer Li Jiangang. "Our systems guarantee a stable spinning process and reliably produce quality yarns – our many years of experience in the industry help us here."

Wang Hongbin, General Manager at Junma, is also aware of this: "We entered the HMLS polyester tire cord manufacturing business in 2008 and at the time, we decided on Oerlikon Barmag systems. All the subsequent expansion stages have confirmed our decision from back then; today, we are convinced Oerlikon Barmag customers."

High-end HMLS technology for the international tire market

Junma supplies its end products to renowned international tire manufacturers and sees definite growth potential in this segment of the automotive industry. "This year, we opened our first branches outside of China. And for the coming year, we are planning our first production facility in Thailand," says Wang Hongbin. In doing so, Junma continues to rely on the expertise of Oerlikon Barmag. The HMLS process from Oerlikon Barmag scores particularly highly with production speeds of up to 6300 m/min, at which the core components of high-speed godets and winders demonstrate their reliability.

About Oerlikon Polymer Processing Solutions Division

Oerlikon is a leading provider of comprehensive polymer processing plant solutions and high-precision flow control component equipment. The division provides polycondensation and extrusion lines, manmade fiber filament spinning solutions, texturing machines, BCF and staple fiber lines as well as nonwoven production systems. It also develops and produces advanced and innovative hot runner systems and multi-cavity solutions for the injection molding industry. Its hot runner solutions serve business sectors, including automotive, logistics, environmental, industrial applications, consumer goods, beauty and personal care and medical. Moreover, Oerlikon offers customized gear metering pumps for the textile, automotive, chemical, dyes and lacquers industries. Its engineering competence leads to sustainable and energy-efficient solutions for the entire polymer processing value chain with a circular economy approach.

Oerlikon Polymer Processing Solutions Division serves customers through its technology brands – Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow – in around 120 countries with production, sales, distribution and service organizations.

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Kornit Digital

Kornit Digital's maiden Direct Presence in France with First-Ever Exhibition at C!Print 2025

Kornit Digital LTD. (NASDAQ: KRNT) ("Kornit" or the "Company"), a global pioneer in sustainable, on-demand digital fashion and textile production technologies, is delighted to announce its first direct participation at C!Print 2025 in Lyon, marking a significant milestone in the Company's expansion into the French market. This move highlights Kornit's newly established direct presence in France, reinforcing its commitment to driving innovation, customer intimacy, and sustainability in the European textile industry.

Empowering the French Market with Innovative Solutions

At C!Print 2025, Kornit Digital will demonstrate its most advanced digital textile printing solutions, empowering French businesses with greater flexibility, efficiency, and sustainability. Key highlights include:

- **Atlas MAX Poly:** A revolutionary system designed for premium, on-demand polyester and blends production, delivering unmatched versatility and vibrant results.
- **Smart Textile Dryer Orion:** A next-generation drying technology that ensures rapid, ecofriendly processing for various textile applications.

Kornit will also showcase collaborations with industry leaders like Sols, Stanley/Stella, and Photocenter 3D while celebrating the success of French customers such as Brodelec and Stone Kids. These partnerships and real-world examples illustrate how Kornit's solutions transform textile production.

A New Era of Customer Engagement in France

The transition to direct operations in France enables Kornit to provide an enhanced customer experience, offering faster delivery, personalized service, and local market expertise.

"Our direct presence in France reflects our deep commitment to the success of our customers and partners," said Len Koerts, General Manager Southern Europe at Kornit Digital. "By engaging directly, we can offer solutions tailored to the French market, empowering businesses to achieve unprecedented levels of efficiency and sustainability."

C!Print: An Invitation to Lead the Future of Textile Printing

As Kornit Digital makes its debut as a direct exhibitor at C!Print, the event serves as a platform to showcase the Company's vision for reshaping the textile and fashion industry. Attendees will gain introduction into how Kornit's technologies, including the Apollo system capable of producing 400 impressions per hour, are setting new benchmarks for agility and profitability in textile production including new and innovative business models.

Visit Kornit Digital at C!Print 2025

Visit Kornit Digital at stand 2U08 during C!Print 2025 from February 4 to 6 to experience firsthand how its innovative solutions are transforming the textile industry. For media queries and interviews, contact Ingrid Van Loocke at ingrid@pr4u.be.

SCIENCE IN INDUSTRY

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 and states worldwide. To learn more about how Kornit Digital is boldly transforming the world of fashion and textiles, visit www.kornit.com.

For further information, please contact:
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Ingrid Van Loocke, Public Relations – Europe
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Mimaki Europe B.V.

Mimaki keeps pace with innovative and advanced technology

How Mimaki's RasterLink7 is Transforming Print Software

By Marc Verbeem, Supervisor Product Management, Mimaki Europe

Today's printing industry is full of innovative and advanced technologies. From high-speed printing capabilities to robotics to sustainable inks, it is an exciting time for the sector. However, for all its advancements, hardware cannot operate on its own. This is why having equally advanced software, such as Mimaki's RasterLink7, is essential to the modern printing workflow.

What is RasterLink7?

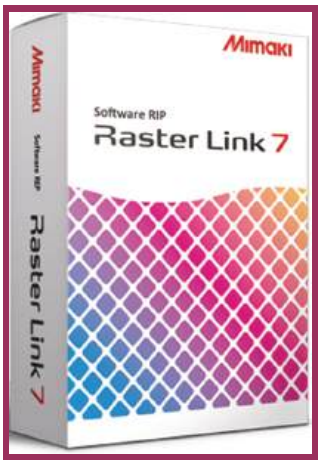
RasterLink7 is Mimaki's latest proprietary RIP (Raster Image Processor) software that bridges

the gap between the digital file and the printer, converting the file into a format that the printer can understand and process. If the printer is the body, RasterLink7 acts as the brain, processing and translating digital images into a format the printer can understand and execute.

Designed to work seamlessly with Mimaki printers and cutters, RasterLink7 ensures smooth communication between software and hardware. This tight integration results in a streamlined and efficient printing process, eliminating the challenges associated with coordinating separate systems. By facilitating seamless operation between devices, RasterLink7 minimises downtime and errors, enhancing the reliability of the entire printing setup.

The Crucial Link

Without the brainpower provided by RasterLink7, some areas of the printing workflow would see a significant decrease in efficiency, while others would simply not work. For example, without RasterLink7's ability to convert and prepare digital files, the printer would not be able to fully understand the design, meaning thatdetails would be lost in the final print.



Beyond file conversion, it offers advanced print settings and controls, allowing users to optimise colour management, nesting, and ink usage for maximum efficiency. This level of control is vital for professionals seeking to maintain high standards while keeping costs down. Without RasterLink7, users face significant limitations in managing these critical components of the workflow, potentially leading to increased costs and lower print quality.

Master of the Raster Image: How RasterLink7 is more than just a RIP Software

RasterLink7 boasts several features that elevate it from simple RIP software to a powerful tool that can be used to enhance all aspects of the printing workflow. The software includes 'New Profile Manager' that allows users to create and manage device profiles for different media types, making it easier to achieve the best results for each print job. The 'Layout Preview' feature provides a visual representation of print jobs directly on the screen, simplifying final confirmations before printing. Moreover, the ink-saving functionality reduces ink consumption by up to 30% without compromising colour balance, offering substantial cost savings.

RasterLink7 also supports 2.5D printing, previously exclusive to flatbed printers and now available on roll-to-roll printers, expanding creative possibilities. The software's 'Cutter Support' feature integrates directly with cutting plotters, allowing seamless print-and-cut operations. Additionally, the 'Lab Colour Chart' enables precise colour matching, ensuring that colours are rendered exactly as intended. These features, along with the ability to estimate ink consumption and manage advanced print effects like multilayer printing and watermarking, make RasterLink7 a comprehensive solution for modern printing needs.

By going beyond the traditional functions of RIP software, RasterLink7 offers an array of advanced tools that streamline the entire workflow, from file preparation to the final print. Whether it's optimising colour management, reducing ink consumption, or enabling new creative possibilities, RasterLink7 ensures that every aspect of the printing process is handled with precision and efficiency. For professionals looking to elevate their print operations, RasterLink7 is more than just software; it's an essential component in achieving outstanding results consistently.

About Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers and cutting machines for the sign/graphics, industrial, textile/apparel and 3D markets. Mimaki develops the complete product range for each group; hardware, software and the associated consumable items, such as inks and cutting blades. Mimaki excels in offering innovative, high quality and high reliability products, based upon its aqueous, latex, solvent and UV-curable inkjet technology. In order to meet a wide range of applications in the market, Mimaki pursues the development of advanced on-demand digital printing solutions. Mimaki Engineering Co. Ltd., (President: Kazuaki Ikeda)

Nagano (Japan), is publicly listed on the Tokyo Stock Exchange, Inc.

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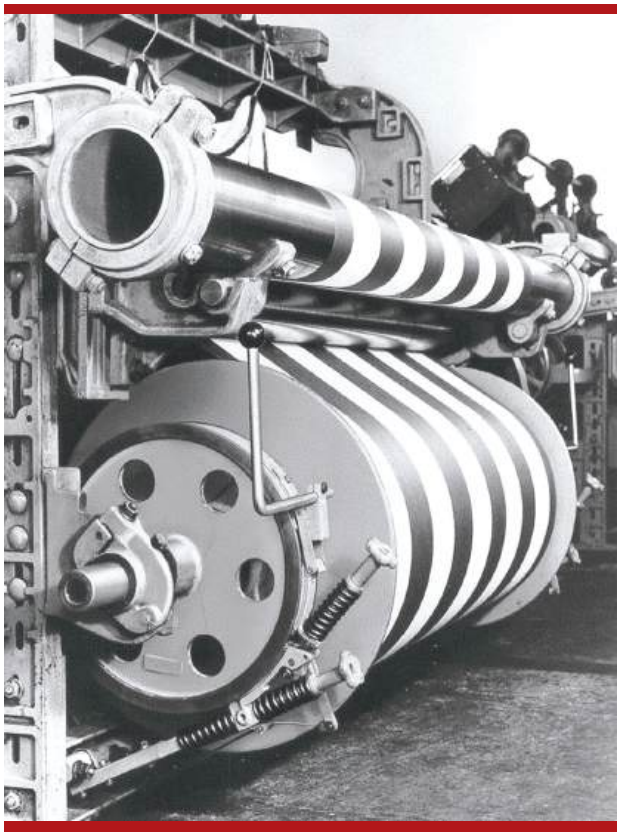
Crealet AG

ECR Warp let-off: Constant Warp Tension Solution

We modernize existing tape and rope brakes and develop and manufacture customized brake systems specifically tailored to different warp beam sizes. Our goal is to ensure a constant warp tension throughout the entire weaving process – from the full to the empty warp beam.



ECR Warp let-off: Automated Tape and Rope Brake

Traditionally, on ribbon weaving machines, the brake force for tape and rope brakes is generated by weights or spring force to regulate warp tension.

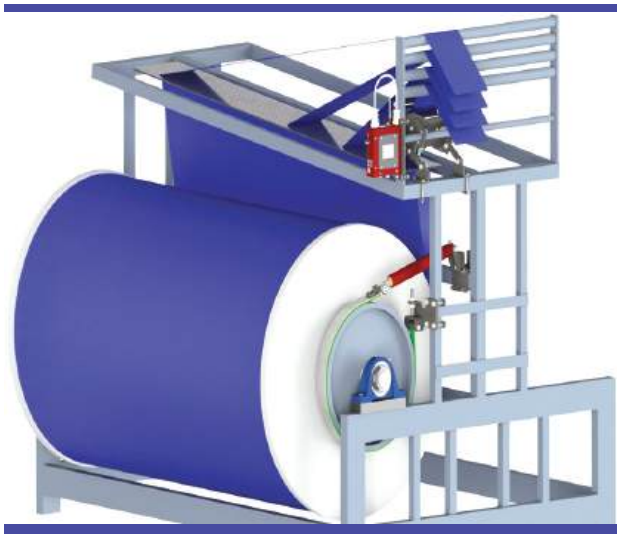
These systems require regular manual adjustments, especially when the diameter of the warp beam decreases during the weaving process.

The ECR Warp let-off eliminates this effort by automatically adjusting the tape or rope tension, ensuring constant warp end tension.

Innovation Through Retrofitting

By retrofitting existing tape and rope brakes with the ECR Warp let-off, a modern, highly precise system is created that automatically regulates the warp tension. An integrated load cell continuously monitors the warp tension and dynamically adjusts the brake force via a cylinder. As a result, the warp tension remains constant, whether the warp beam is full or empty – a key

advantage for quality control throughout the entire production process.



Energy-Effcient Solution

In cases where the warp tension is sufficient to move the warp beam, it does not need to be actively driven to maintain constant tension. A targeted braking of the warp beam is enough to maintain the desired tension. This approach simplifies the process, reduces energy consumption, and eliminates the need for a mechanical drive.

Advantages of the ECR Warp let-off

- Cost-effective solution for constant warp thread tension
- Reduction in labor costs and increased production efficiency
- Simple warp tension adjustment for highest precision
- Constant reproducibility of warp thread tension
- Visualization of warp tension for better process control
- Even tension from full to empty warp beam, resulting in consistent fabric quality

Benefit from the advantages of ECR Warp let-off!

Take the opportunity to retrofit your existing tape and rope brakes with the innovative ECR Warp let-off or ask us to develop a customised solution for your specific application.

Our system ensures that your warp tension remains constant throughout the weaving process – from full beam to empty beam.

Contact us today to learn more about this energy efficient, cost saving and accurate solution and how we can help you optimise your production processes.

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MARCH 2025

We are listing most common stressful events which majority Spinners are now facing. Here, we talk of one such event.

Theoritical and academic causes of increased Yarn Hairiness are known to all spinners. But they are unaware...

The reasonfor Increased Yarn Hairiness is a practical one, the wellness of Spinning and Ring-Frame. Poor condition of Ring Frame components creates jerky yarn passage, unstable spinning triangle, which generates hairiness and keeps on generating till the wellness status of machine with all its components is restored.

Wellness is the fundamental thing, if not observed due to practical practices or due to ignorance it will definitely initiate several problems in spinning, which can result in accumulating losses. And such losses, when numerically accounted, give shocking figures.

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We have checked 400+ such cases by now, and acquainted them with Wellness and its problem. All such problems were resolved. All are happy with the results. Not only their problems are solved but have gained in Quality and Productivity. We are encouraging others to share their problems, if any, we will be glad to guide and assist. Together, we will be able to resolve all such problems, and in some time, lift up the industry's Quality and Productivity standards.

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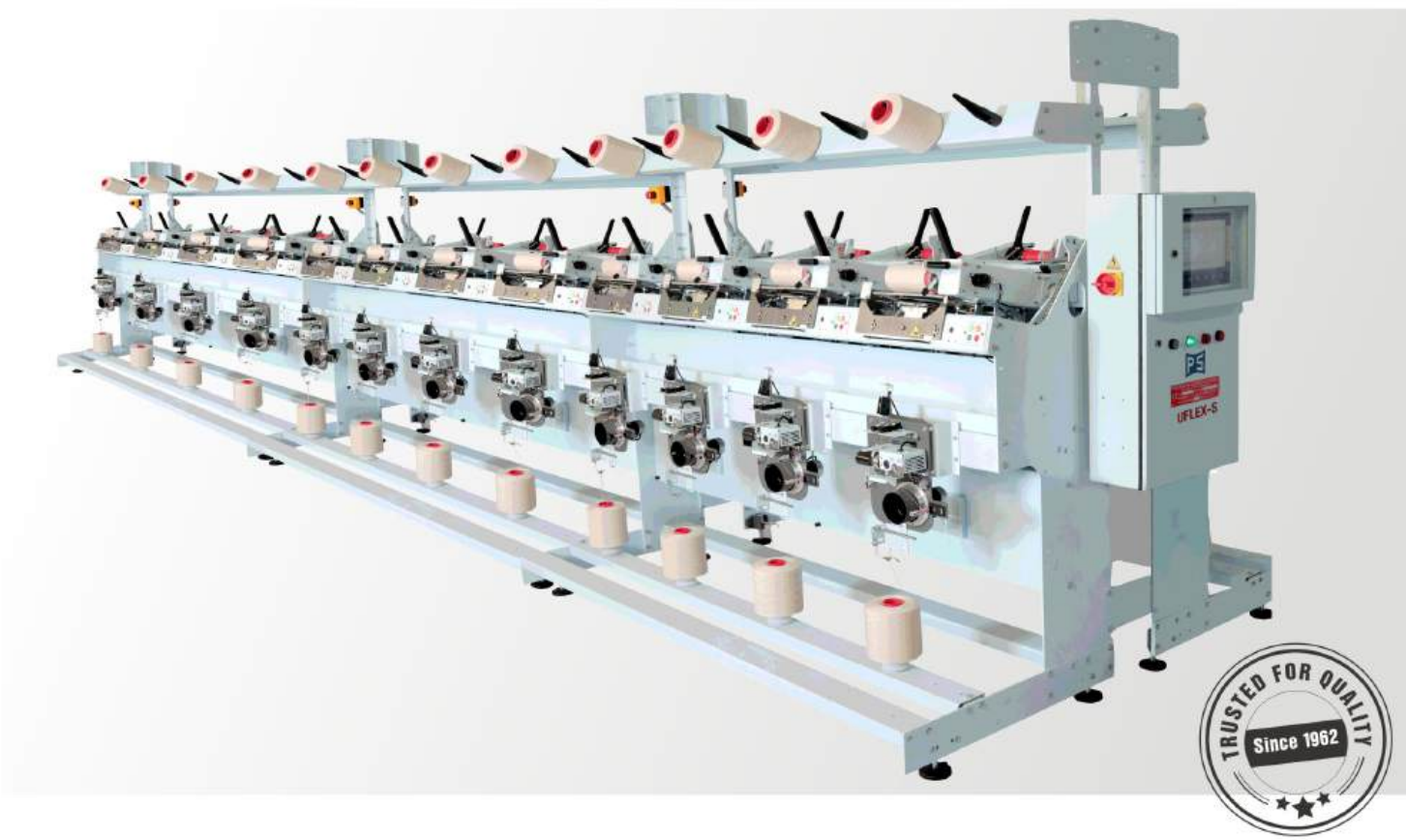

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