VOL. LXVI. NO.10, TEXTILE TRENDS, JANUARY - 2024

Textile Trends

66TH YEAR OF PUBLICATION, NO. 10 JANUARY 24, 2024, ISSN 0040 - 5205, Rs. 60/-

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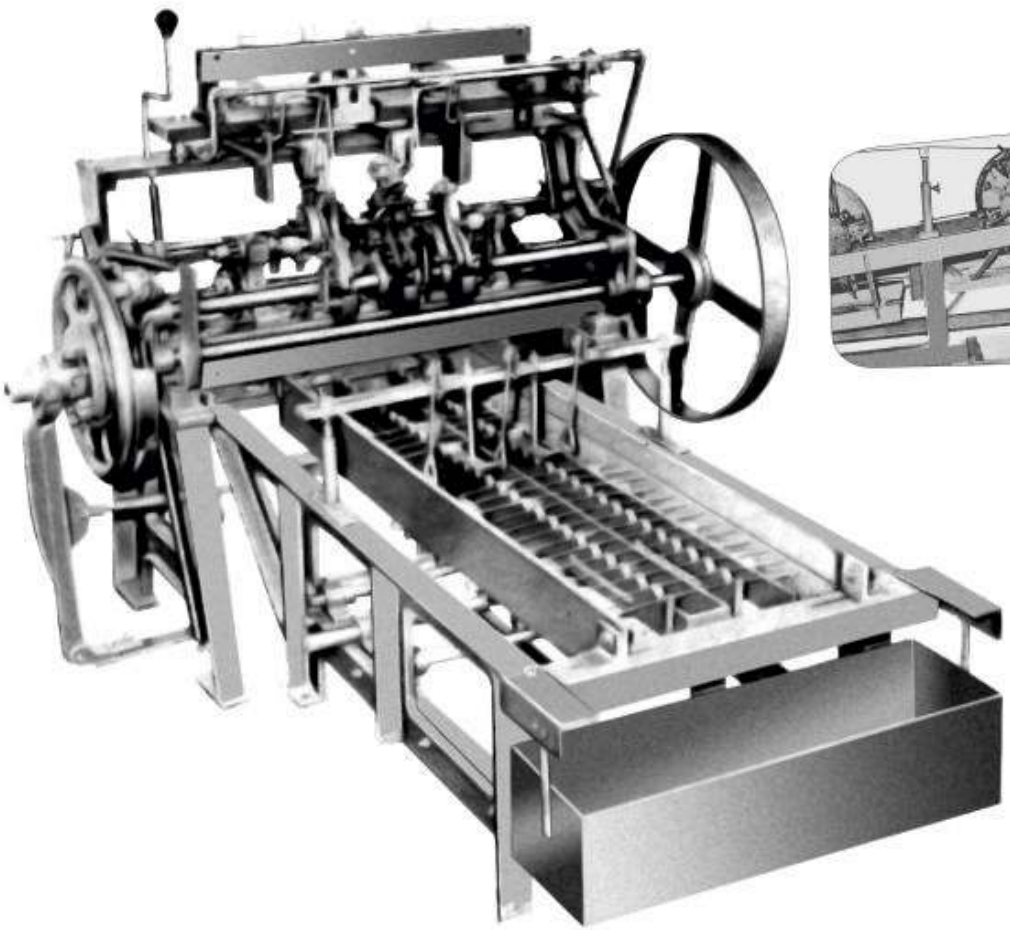

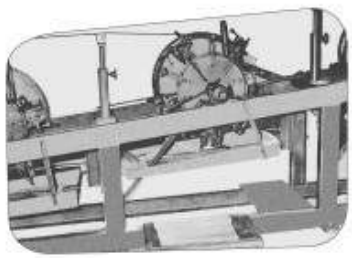

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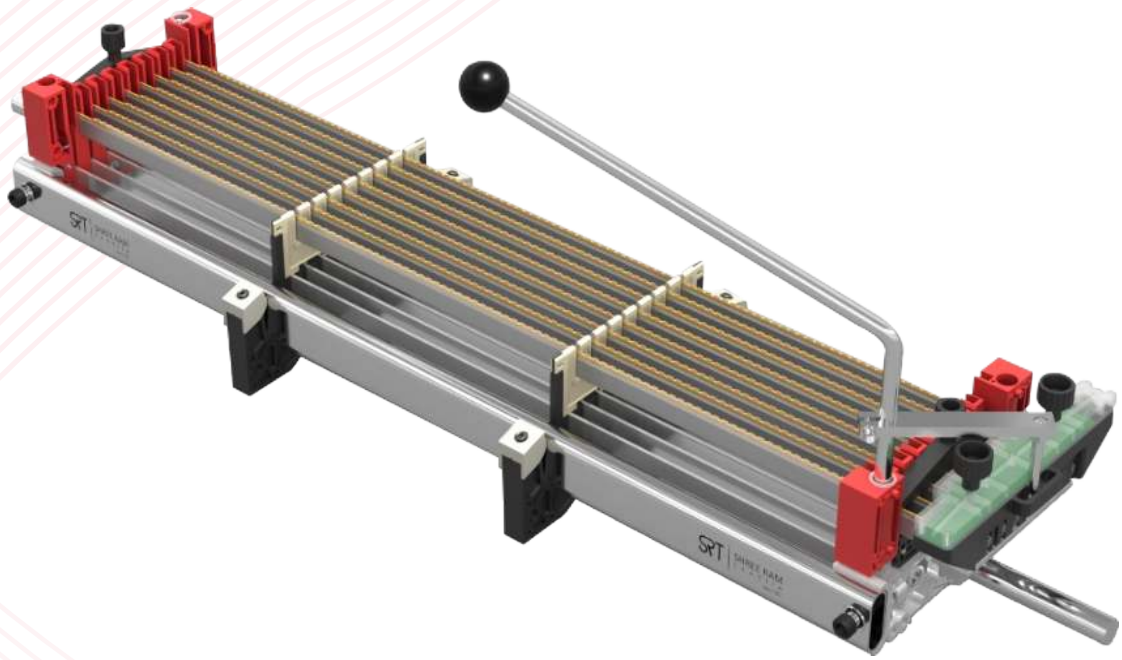

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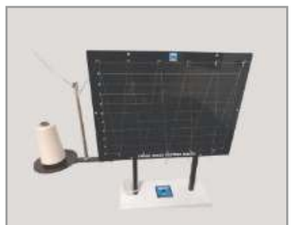

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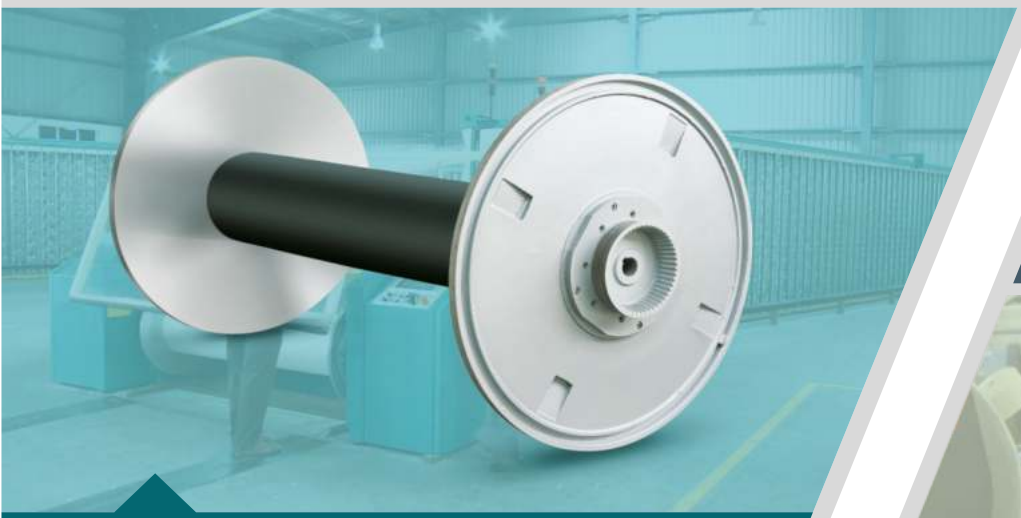

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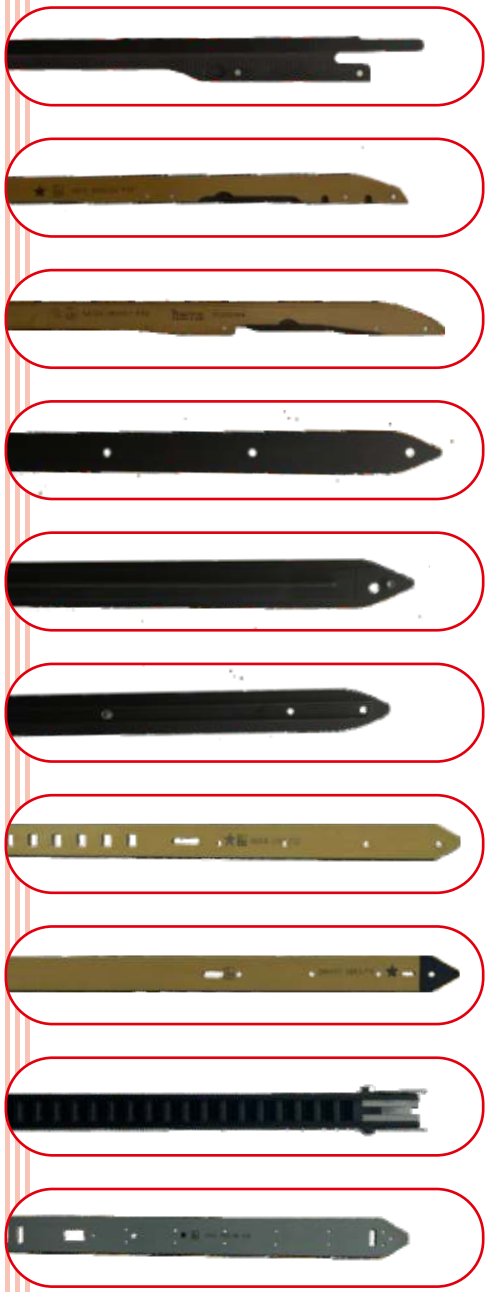

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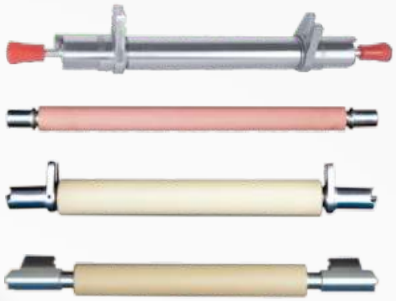

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- Top roller de - greasing machine
- Clearer roller cleaning machine
- Fluted roller truing machine
- Cot mounting machine (Hand/Pneumatic)

Hydraulic Cots Mounting & De-Mounting Machine

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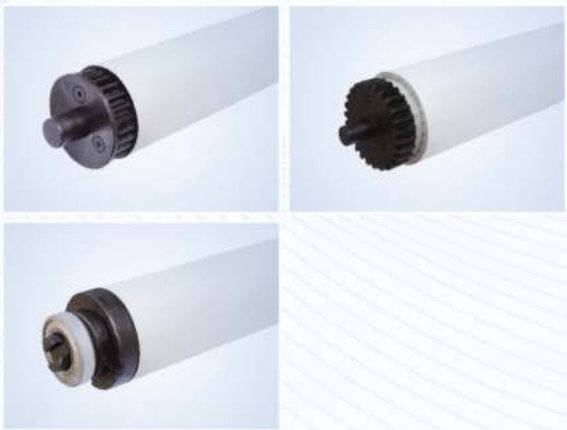

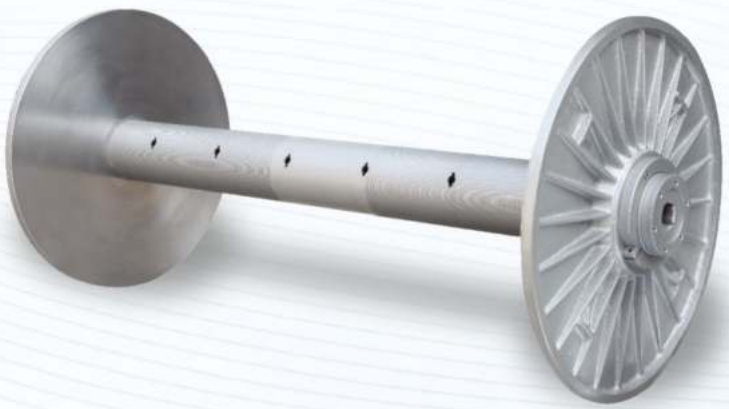

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Annual Subscription (Post Free) : Rs. 650.00
Overseas (Air Mail Post Free) : ST £ 75.00 / US $ 145.00
Bangladesh (Post Free) : US $ 60.00

Vol. LXVI
No. 10
JANUARY 2024

Publisher : Shri D. J. Dutta

Editor : Shri Malay Chakarabarti

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Bir Uttam C R Dutta Road, Dhaka – 1205, Bangladesh
Tel. : 0088 037 72012027 e-mail: ckd@bangla.net
http : ecpl.webjumb.com

Published Monthly by

Eastland Publications Private Limited

44, Chittaranjan Avenue, Kolkata - 700 012, India
Phone : 91-33-2212-2233, 91-33-2212-1096, Fax : 91-33-2212-1096
E-mail : textrend58@gmail.com/textiletrendsindia@gmail.com | *Website : www.textile-trends.in*

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HARNIVEE / 05-2023

EDITORIAL

Regional co-operation and partnership for sustainable development of textile industry

The global textile and clothing industry is passing through a phase of restructuring and consolidation brought about by shift in sourcing, climate change and digitalization. The world economy is yet to get full relief from the after-effects of the pandemic, the war in Ukraine, sticky inflation and new threat before world economy posed by Israil-Hamas war. The 'polycrisis' the textile industry facing poses the challenges, but at the same time, there are opportunities to align one's business model to the emerging trends.

Asia has already established itself as a significant hub for textile manufacturing and consumption. Countries such as China, India, Bangladesh and Vietnam in the region have become major players in both production and consumption of textiles and apparels. Textile industry is among the most globalized industries in the world. It's undergoing paradigm shift with geographical shifts in the industry to the emerging countries with competitive factor cost and favourable market access conditions.

Textile, apparel, and Fashion industries contribute significantly to global environmental pollution at every point of supply chain. Clothing manufacturing and transportation produce a large volume of waste and high greenhouse gas emission, often taking advantage of chief labour in developing countries. As a result, stakeholders are becoming more aware of the effects of textile, apparel and fashion industries on the climate and human rights, thus pushing business to mitigate their environmental damage.

Regional co-operation and partnership play a crucial role in promoting sustainable development in the industry. The industry has significant social, economic and environmental impact. Collaborative efforts among the countries need for combating various challenges. The government of India has given high priority to textile and apparel manufacturing, it regards this industry as an important pillar of 'Make In India' initiative. This initiative enables the policies to help catapult growth as India enters the 'AmritKal' and holds the prestigious G-20 presidency. The government's project of selling up seven mega textile parks under PM Mega Integrated Textile Region and Apparel Scheme has given a big boost to the Indian textile industry and 'Make In India' efforts of the government.

China's exports surge for the first time in 6 months

China's exports grew for the first time in six months in November, suggesting factories in the world's second-largest economy are attracting buyers through discount pricing to get over a prolonged slump in demand. Mixed manufacturing data for November has kept alive calls for further policy support to shore up growth but also raised questions about whether predominantly negative sentiment based surveys have masked improved conditions. Exports grew 0.5% from a year earlier in November customs data showed recently, compared with a 6.4% falll in October and beating the 1.1% drop expected in a Reuters poll. Imports fell 0.6%, dashing forecasts for a 3.3% increase and swinging from a 3.0% Jump in October. "The improvement in exports is broadly in line with market expectations..sequential growth in China's exports in the past few months has strengthened," said Zhiwei Shang, chief economist at Pinpoint Asset Management. "There are green shoots in other Asian countries' export data as well in recent months." The Baltic Dry Index, a bellwether gauge of global trade, climbed to a three year high in November, supported by improved demand for industrial commoditties, particularly from China. South Korean exports, another gauge of the health of global trade, rose for a second month in November, buoyed by chip exports, which snapped 15 months of declines. Trade with China's major peers also painted a rosy picture, with exports to United States. Japan, South Korea and Taiwan all up on October. In the short run, though, the pressure on Chinese manufactures show little sign of easing off completely China's official purchasing managers' index recently showed new export orders shrank for a ninth consecutive month, while a private sector survey high lighted the struggles of factory owners to batter overseas buyers for a fifth month. ❐

Japan loosen arms norms, allows exports to the US

Japan loosened arms export controls for the first time in nearly a decade, a move that would enable the U.S. ally to sell domestically made Patriot missile defence systems to Washington. Japan strictly controls the export of arms under its pacifist constitution, which limits its military capacity to ostensibly defensive measures. Sales of the Patriot Advanced Capability-3 (PAC3) system to the United States would be Japan's first export of lethal arms since the end of World War II, local media have reported. With the new rule, Japan" will be able to export arms which were domestically produced under licence of a foreign company to the licensing country", a national security official in the Prime Minister's cabinet said. Japan produces the PAC3 missile system, paying a licence fee to U.S. defence firm Lockheed Martin which developed the system. ❐

UK inflation shinks in over 2-YR low

British inflation plunged in November to its lowest rate in over two years, prompting investors to pile further into bets that the Bank of England (BoE) will cut interest rates in the first half of next year. The annual rate of increase in consumer prices dropped to 3.9% per cent from 4.6 per cent in October, pushed down in part by cheaper petrol, for its lowest reading since September 2021, the Office for National Statistics said. The headline Consumer Prices Index inflation reading was below all forecasts in a *Reuters* poll which had pointed to a figure of 4.4 per cent. Core and services measures of inflation – closely watched by the BoE—also dropped. British equalities also jumped as the blue-chip FTSE 100 advanced 0.9 per cent, touching its highest level since May 24, outpacing the pan European STOXX 600, which was trading flat. The pound dropped 0.5 per cent after the data. ❐

US economy surges 5.2% in Q3, beats first estimate

Shrugging Off Higher interest rates, America's consumers spent enough to help drive the economy to a brisk 5.2% annual pace from July through September the government reported recently in an upgrade from its previous estimate. The government had previously estimated that the economy grew at a 4.9% annual rate last quarter. In the current fourth quarter, though, economists say growth is likely slowing sharply from the cumulative effects of higher borrowing rates on consumer and business spending. TD Economics, for example, expects growth in the October-December period to come in at a 1.8% annual rate. Second estimate of growth for the July-September quarter confirmed that the economy sharply accelerated from its 3.1% rate from April through June. It showed that the US gross domestic product - the total output of goods and services - grew at its fastest quarterly rate in nearly two years. Consumer spending, the lifeblood of the economy, rose at a 3.6% annual rate from July through September-still healthy but a downgrade from the previous estimate of 4% Private investment surged at a 10.5% annual pace, including a 6.2% rise in housing investment. ❐

UK welcomes $37-bn FDI in 'vote of confidence'

Prime Minister Rishi Sunak announced 29.5 billion pounds ($36.8 billion) of private sector investment in Britain at a gathering of global executives recently aimed at catapulating the country back to Europe's top spot as a destination for foreign money. After the government of late offered permanent tax breaks for businesses to modernise their plants and machinery, Sunak is hoping his wooing of foreign investors will help to speed up Britain's moribund economy. Australian funds IFM Investors and Aware Super will pump 10 billion pounds and 5 billion pounds, respectively, into projects ranging from infrastructure and energy transition to affordable housing. Sunak's Downing Street office said in a statement. In added that Spanish power giant lberdrola would add 7 billion pounds to its investment plans in Britain, which include transmission and distribution electricity networks. Iberdrola said it would now be investing nearly 14 billion euros in Britain by 2028. Microsoft will also make a 2.5 billion-pound investment in artificial intelligence infrastructure. "Your decision to choose to invest in Britain is a huge vote of confidence in our country's future," Sunak said in his speech to address the investment summit at London's 16th century Hampton Court palace. Britain, like many other countries, is seeking private sector investment to help overhaul its economy for the netzero era and to build the kind of infrastructure that its stretched public finances can not fund on their own. ❐

Global trade to decline 5%

Global trade will decline in 2023 by about 5% from last year's record as high borrowing costs weigh on economies, US-China tensions redirect supply chains and more policies restricting cross-border commerce emerge, a UN agency said. The value of goods and services trade will reach $30.7 trillion compared with $32.2 trillion in 2022, according to the Geneva-based Unitted Nations Conference on Trade and Development. A $2 trillion, or 8%, slump in merchandise trade is the main reason. Services trade this year will increase by $500 billion, or about 7%, from a year ago, UNCTAD said. Lower costs for goods affected by high inflation a year ago is also a reason for the decline. "Even though the value of traded goods decreased in 2023, the slightly positive trade in the volume of international trade suggests a resilient global demand for imported products," the report said. UNCTAD noted how countries aligned geopolitically are trading more with each other while those in disagreement are trading less bilaterally. That divergence among several issues clouding the outlook for next year, the agency said. "The forecast for global trade remains highly uncertain and generally pessimistic," the report said. "Persistent geopolitical tensions, high debt, and widespread economic fragility are anticipated to exert negative influences on global trade patterns." ■

Engineering exports to US, UK Germany, UAE grew in October

India's engineering exports to 18 major destinations, including the US, the UK, Germany, and the UAE, posted an increase in October 2023 (year-on-year), while shipments to China, Italy, Singapore and Indonesia declined. Overall, engineering, exports from India in October increased by 7.2 per cent (year-on-year) to $8.09 billion, but it was largely attributable to the low base of the previous fiscal, according to the industry body EEPC India. Despite engineering exports growing for the third consecutive month in October 2023, cumulative engineering exports for the April-October 2023 period declined by 1.61 per cent to $61.63 billion compared to the same period last fiscal. The metal sector, specifically iron and steel, aluminium and its products, and zinc, has been pointed out as the biggest contributor to this decline by EEPC India Chairman Arun Kumar Garodia in a statement issued recently. "The slump in the demand in developed countries, especially the European Union, has caused issues for Indian metal exporters. The situation has been further worsened by the various market access barriers imposed by countries in the EU and North America on Indian exporters," he added. EEPC has requested the government for additional support to help the industry remain competitive in the global market. "Raw material prices have been a major pain point for downstream engineering industries. The price analysis indicates that Indian metal prices have gone up compared to international prices," Garodia said. The value of engineering exports to the US in October 2023 was $1.39 billion, up 2.2 per cent compared to October 2022. Engineering exports to the UAE rose by 2.9 per cent in October 2023 to $348.6 million, while exports to the UK and Germany increased by 60.3 per cent to $302.5 million and by 20 per cent to $342.7 million, respectively. ❐

Global funds like India better than China

Global Pension and soverign wealth managers are flocking to India while growing hesitant on China, according to a new study. Almost 40% of investors chose India as the most attractive emerging market, while less than a quarter selected China in a survey by London based think-tank Official Monetary and Financial Institutions Forum. It included 100 funds managing $26 trillion in assets, including Singapore's GIC Pte, and Canada's Caisse de Depot et Placement du Quebee. The findings add to the signs of growing global optimism over India amid a cautious tone on China exposure. Beijing's rising tension with the West, policy mishaps after the pandemic and a weak economy have boosted India's appeal as an alternate investment destination. India is well positioned to benefit from its strong growth, demographics and diversification of global supply chains, said the report's authors led by Deputy Chief Executive Officer Clive Horwood. India is becoming more open to foreign investors, they said, citing the scheduled addition of the country's assets to JP Moregan's bond index in June. "In contrast, there is hesitation on China" they said. "No surveyed fund has a positive outlook for its economy or expects higher relative returns from Chinese assets." The majority of the respondents listed regulation and geopolitics as barriers to investing in China and would put their money there mainly because it's part of benchmark gauges. Demand for Chinese assets has cratered in recent years, with foreign direct investment turning negative for the first time in the third quarter of the year as overseas investors pull out money on growing concerns over its economic recovery. China's CSI 300 Index fell almost 1% and was on track for its lowest close since Fenruary 2019. That's in contrast to a rally in Indian equities, where S&P BSK Sensex Index rose 0.7% to inch toward a new high. ❐

Exports contract again, trade defect narrows as imports fall faster

India's goods exports slipped back into contraction, dropping 2.83% in November to $33.9 billion, while imports fell by a sharper 4.33% to $54.48 billion. Exports had recorded only their second uptick this year in October, and though the value of outbound shipments was up 1.1% on a month-on-month basis, they still marked the second-weakest level since November 2022. The trade deficit for November narrowed sharply

beyond expectations to $20.58 billion, from the all time high of $29.91 billion recorded in October. November's trade deficit was 6.7% narrower on a year-on-year basis, and 31.2% less than October's tally. The originally estimated deficit of $31.5 billion for October was revised downward thanks to a $1.6 billion correction from the initially released import estimate of $65.03 billion. Commerce Secretary Sunil Barthwal asserted that 'trade is not one-way traffic and should be seen in a global context'. "GDP growth is not high in many countries and interest rates have not gone down. Although global trade is suffering, we are holding fort and our exports have beaten the global trends in 2023 by a significant margin. "The green shoots we saw in the last couple of months have stabilised. Exports have been positive in November and higher than the overall exports of the same month last year," he said, referring to the total tally of merchandise exports and estimated services exports in November. While the actual services exports numbers will be available later, the Commerce Ministry pegged November's intangible exports at $28.69 billion, 6.5% above last year, to put cumulative exports for the month at $62.6 billion, 1.2% higher than in the year-earlier period. "India's merchandise trade deficit unexpectedly shrunk in November, with a better-than-expected performance of exports resulting in a narrower deficit than our projection of $23.5 billion," said Aditi Nayar, chief economist at the credit rating major ICRA, Ms, Nayar major ICRA. Ms. Nayar expects the monthly trade deficit to hover in the range of $20 billion to 25 billion through the rest of 2023-24. Between April and November, merchandise exports are now 6.5% lower at $278.8 billion, while imports have dropped 8.7% to $445.15 billion. At $166.35 billion, the trade deficit so far this fiscal is 12.1% narrower than in the same period last year when several commodity prices had shot up after the conflict in Ukraine. Officials reiterated that though the volumes of many major export goods had increased in 2023, their value had reduced due to the dip in global prices. ❐

Core industries' output rose to 12.1% in October

The eight core industries' output growth grew 12.1 percent in October 2023, much higher than the 0.7 per cent growth recorded in same month last fiscal. The government has also revised upwards the eight core industries' output growth for September 2023 to 9.2 percent, against 8.1 per centarlier, official data showed. Also, the August 2023 reading has now been revised up to 12.5 percent from the earlier 14-month high of 12.1 percent projected earlier for that month. July 2023 reading has been revised up to 8.5 percent. All eight industries record positive growth in October 2023. For April-October, the core industries' output grew 8.6 percent (provisional), compared to 8.4 per cent in the same period last year. In fiscal 2022-23, core industries' output grew 7.6 per cent, lower than 10.4 percent growth in the previous fiscal. Coal output continued to sizzle with a growth of 18.1 percent in October 2023, higher than the 3.8 percent growth in October last year. It was higher than the robust 16 per cent growth seen in September this year. For the month under review, the cement sector output grew 17.1 percent (-4.2 percent) and electricity generation was up 20.3 percent (1.2 percent), The eight core industries — coal, natural gas, crude oil, refinery products, fertilisers, cement, steel and electricity — comprise 40.27 percent of the weight of items included in the Index of Industrial Production (IIP). For October 2023, national gas output grew 9.9 percent (-4.2 percent); refinery products 4.2 percent (-3.1 percent) ; fertilisers 5.3 percent (5.4 per cent) ; and steel 11 per cent (5.8 percent). Crude oil output saw a growth of 1.3 percent (-2.2 percent). Aditi Nayar, Chief Economist, Head Research and Outreach, ICRA Ltd, said that the year-on-year growth in core sector expectedly rebounded to double digits in October 2023, aided by the low base, owing to higher number of holidays in the year ago month amid the earlier onset of the festive season in 2022 vis-à-vis 2023. "As many as four of the eight core industries witnessed double-digit growth in October, including electricity, coal, cement and steel," she said. This shift in the festive calendar obfuscates year-on-year comparisons in October and November, thereby making it more meaningful to look at the average y-o-y growth performance for these months, Nayar added. ■

Pink Bollworm attack hits productivity of cotton cultivation in Northern-India

For Manish Mehta, a farmer in Dabwali village in Haryana's Sirsa district, cotton has been a reliable crop for years. This time, he grew cotton in 40 acres of land.

After all, cotton requires less water than peddy, and in the fast groundwater depleting belt in Sirsa, it has been fetching a good price in the market— ₹ 10,000-11,000 per quintal.

But Mehta had not foreseen the pink bollworm attack the hit cotton output in northern India this year. The pest attack not only affected cotton yield and quality, but has also delayed the wheat sowing period. "It has been a bouble whammy for the farmer," said Mehta.

The infestation has hit the cotton-growing northern zone belt of Punjab, Haryana and Rajasthan.

"Pink bollworm attacks the crop at a later stage, when larva enters the ball. We realized the pest is affecting the crop around September, but did not realise how bad the infestation would be," said Mehta. "Crop yield has come down and the quality is also affected."

Since the quality of cotton is affected, its prices have plummeted to ₹6,000 per quintal from ₹10,000-11,000 per quintal, said Mehta, adding that labour cost, too, has increased, as labourers find it difficult to pick an infested crop. "Earlier, we were paying ₹10 per kg to the labourer (he would pick 10 kg per day), but now we haven't got labourers when we are ready to pay even ₹30 per kg. The picking has been slow and wheat has not been sown on time," he said.

South Asia Biotechnology Centre director Bhagirath Choudhary, who works on endemic and invasive pest management, said, "This year, the pink bollworm was at the peak of infestation in the north. It destroyed the quality of cotton balls. Cotton production has come down to 29.4 million bales."

To support farmers, the government undertakes minimum support price operations through the Cotton Corporation of India. The state-run company begins procurement from the market when prices of fair average quality-grade cotton fall below MSP. But since the quality of cotton has been affected, CCI has not been able to procure it.

"We have a quality parameter which is called FAQ cotton. At present, all FAQ-grade cotton and above is being sold in the market at a price higher than MSP. The farmers want that CCI should buy the remaining cotton in the market at MSP," Lalit Kumar Gupta, chairman and managing director of Cotton Corporation of India, told ET. "They want to push the inferior quality, which we cannot procure."

CCI has initiated MSP procurement in 10 states. "We have procured 2.65 lakh bales against the arrival of 50 lakh bales," said Gupta. "The procurement is in remote areas of these states but otherwise the prevalent market price is 2-5% above MSP." The MSP is ₹6,620 per quintal for medium staple and ₹7,020 per quintal for long staple.

Chaudhary, however, said there is a crisis in India, which was the primary cotton grower in the world about 10 years ago. "Cotton cultivation is in deep crisis in India. This is the only crop in the country which has been consistently sliding downward in terms of productivity since 2013-14," he said. "In that year, the production was 39.3 million bales and we had expected to produce 45 million bales by 2023. But it will come down to 29.4 million bales in 2023-24. So, effectively, we are losing 10 million bales every year. If we put the cost of 1 bale at ₹50,000, we are effectively losing ₹50,000 crore annually."

Chaudhary says: "The biggest problem is the non-compliance of conditions attached to production of Bt Cotton when it was approved in 2022." "One of the most important conditions was that the farmer should grow Refugia or non-Bt Cotton around Bt Cotton plants. That condition was introduced because the government was addressing two main pests — American bollworm or Helicoverpa Armigera (which was the main cotton pest in the country) and the pink bollworm (it used to come later in the crop cycle)."

Since farmers did not stick to this condition, pink bollworm is now prevalent, he said. "Pink bollworm is a monophagous pest. It is a concealing pest which feeds inside the ball. No matter how much you spray the plant with insecticides, it is ineffective because the spray does not reach inside and curb it," said Chaudhary. ■

High inflation in buying countries and huge inventory with retailers hit Textile industry

Sivakumar, who operates a foundry in Coimbatore in Tamil Nadu, usually buys scrap from the southern districts of the State. However, recently, he received 250 tonnes of scrap from a textile mill that had sold its machinery in Salem, a textile centre which is just a 3.5-hour drive from Coimbatore.

Similarly, in the powerloom cluster of Somanur in Tamil Nadu, Kandasamy, a weaver, says more than 10 looms are being sold away every month at his village (Devarayapuram) alone.

As such reports abound from clusters in T.N.J. Thulasidharan, president of the Indian Cotton Federation (ICF), says the current distress in the textile and garment industry, which is predominantly part of the MSME sector, is similar to the situation the sector faced in the late 1960s.

In the past couple of months, many factories across the textile value chain have either shut down and disposed of machinery or sold excess lands to stay in business ; working hours have reduced for labourers, impacting their wages ; and the share of textiles and apparel in the Index of Industrial Production has shrunk.

In Andhra Pradesh, P. Koti Rao, who heads the A.P. Textile Mills association, says 8-9 mills have closed down and more are on the verge of closure.

"It [textile mills] is a first generation industry in Andhra Pradesh. We used to export 30% of the yarn produced. Now, it is not even 5%. Cotton prices are high, electricity charges are up, and there is no support from the Centre or State governments," he says. An oft-repeated cause for the crisis is that the industry is going through a prolonged period of low demand in both export and domestic markets.

The domestic demand is tepid though retail sales during the festival season this year was on a par with that a last year.

On the export front, shipment of textiels declined 0.41% in April-October 2023, compared with the same period last year even as it grew 24.29% in October 2023 as against October 2022.

Apparel exports saw an 8.08% de-growth in October and declined 14.58% in April-October 2023 compared with the same period last year.

Apparel shipments began declining last August, but looked better in November and December 2022. They started registering negative growth again since January this year. The geo-political situation, inflation in buying countries, and huge inventory with the retailers are said to have dampened orders, But, for the Indian textiles and clothing industry, there are multiple issues stunting its growth raw material prices, escalating input costs, quality control orders (QCO),and import of garments, to name a few.

Raw material (fibre) constitutes 60-70% of manufacturing cost, which has turned expensive in India impacting the competitiveness of the industry severaly, says S.K. Sundararaman, chairman of the Southern India Mills' Association. "Cotton prices crossed ₹1 lakh a candy in the two seasons back (2021-2022) and still textile mills were buying. Now, cotton prices are less than ₹ 60,000 a candy and there are no buyers," said an official source.

The Indian textile sector is largely cotton based and production and yield of cotton in the country are on a downward trend.

In 2013-2014 cotton season, production and yield peaked to 398 lakh bales and 566 kg a hectare respectively.

In 2021-2022, the actual production was 310 lakh bales and yield 451 kg a hectare. Imposition of 10% import duty in 2021 led to a sharp rise in cotton prices that year and then a fall from last October, hurting farmers and the industry.

"Any decision of the government should be consistent and long term, benefiting farmers and the consumer industry. For more than a decade from 2008, India did not have import duty on cotton," points out Nishanth Asher, secretary of ICF. At the present price levels, Indian cotton is on a par with the world average. Only if it stabilises at this level, can the industry make gains.

In the case of man-made fibre (MMF), domestic supply is limited and introduction of QCO is hurting the industry, say sources. ■

The slow down in the Textile sector damps wages, sparks worker exodus

The challenges over the past year at India's textile and apparel sector, the country's second largest employer with almost 45 million direct jobs, have exposed the vulnerabilities of its workers and the fragile ecosystem they operate in.

The slowdown in the sector has kept wages flat, deprived workers of traditional incentives, pushing arguably lakhs of them into hunting for jobs elsewhere.

While the degree of the impact varies within the sector based on the unit's size, the kinds of textiles they deal with (handloom, power loom, manmade fabric, etc,) there is no comprehensive study indicating the level of stress in the post COVID-19 years. But factory owners and workers nationwide, unanimously sought urgent governmental intervention.

Electrical posts, factory gates, or tree trunks that used to sport 'tailors wanted '/' workers wanted' boards at Tiruppur, known as India's 't-shirt town', now stand bare. A sweeper at one of the garment factories in the city who took home ₹15,000 as bonus last year received less than a third (₹4,500) this year.

In the nearby weaving centre of Palladam, Velusamy, a power loom weaver, had paid ₹2.5 lakh as bonus to 16 workers and operated 30 looms, in 2023. In the last four months, he has had to sell 20 looms, has one worker to man the remaining 10 looms and paid him ₹11,000 as bonus this year, "The workers took ₹7 lakh advance from me and are ready to work to repay the amount. But, I do not have orders to give them jobs," he says.

Sahajan, 32, from West Bengal, was working at a weaving unit at Pongalur. Since he did not receive bonus this year, he moved to another weaving unit. "I want to go back home. I get ₹550 a day for 12 hours of work now. I could get that working as security guard in Bengal and be with my family too," he says.

"There is almost 40% job loss in the garment export units in Tiruppur in the last six months. The (business) owners say they get only 60% work," observes P.R. Natarajan, general secretary of Tirupur District, All India Trade Union Congress.

Garment factories in Bengaluru are short of workers as many have switched to working at shopping malls, and metro rail stations. V.P. Rukmini, President of the Garment Workers' Union, says 90% of workers at garment factories in Karnataka are women. They receive minimum wages and no incentives. They prefer jobs that pay better and "where there is no harassment," she adds.

"Workers who lost their jobs have moved to other sectors," says an exporter in Delhi.

"At least 10 workers who were with me moved to jobs in Gujarat and Telangana," laments Pradeep Natarajan, who operates a textile mill in Coimbatore.

Such tales abound in textile clusters, especially in the southern states, with distress extending to allied activities. Selvaraj has been operating a mini truck for almost two decades, transporting textile goods at Palladam. His earnings have more than halved from ₹7,000 to ₹3,000 a week in the past year.

Arul (name changed), who rents out his godown to textile producers to store their products is unable to get any occupants. He recently disconnected electricity for his unit, unable to pay ₹37,000 as fixed monthly charges.

"I took ₹1 crore loan to buy shuttle-less looms. I had pledged my relative's property. In November I moved the loan account to an NBFC pledging my father-in-law's property, because I cannot risk the property of my relative," says Easwaramoorthy.

Reason for this widespread distress range from loss of orders for garment units, slump in rates for fabric weavers and spinners and an import glut of value added products. The textiles Committee observes in a study, available on the Ministry of Textiles website, that decline in exports and rise in imports affected 2.14 lakh jobs between 2015 and 2020, in the pre COVID-19 period.

The industry states at multi-dimensional challenges : lack of data on the impact of the slowdown post COVID, including those on cottage and micro industries ; vast differences in labour profiles and systems between organised and unorganised sectors ; migration of workers to better paying jobs if prospects do not improve ; and lower labour costs is other textile exporting nations impacting Indian exporters who compete on prices in the global market.

"The industry is so massive that it is difficult to do surveys," said an industry spokesperson, speaking on the condition of anonymity. "A large part of work is done at home and in rural areas and it is difficult to collect data from these places. The Ministry has a portal where migrant workers' details can be registered but it has to be linked to other schemes for better data capture. Moreover, as 90% of the production is in the unorganised sector, there cannot be a uniform approach to address labour conditions." ■

India to become largest cotton producer

India will strive to become the largest cotton producer globally, Minister for Textiles, Commerce and Industry, Piyush Goyal, said in Mumbai of late, inaugurating an annual global meeting of a UN recognised body of cotton producing and consuming nations.

At the 81st plenary session of the International Cotton Advisory Committee (ICAC), the Minister said India has the largest area under cotton cultivation and is the second largest producer. "We need to become the world's largest producer," Mr. Goyal stressed, adding that the textile advisory group on cotton will work towards improving productivity similar to the level in countries like Australia.

India will provide leadership in cotton textiles and technical textiles. It has two advisory groups - for cotton and manmade fibre. These groups have representation from the entire textile value chain and take policy decisions with inputs from sector representatives. India has also launched PM MITRA - a Central government scheme to set up mega textiles parks and promote the entire value chain.

Mr. Goyal said the National Technical Textiles Mission promotes research and development in technical textiles. These are manmade fabric meant for a specific function and are not generally used for apparel or aesthetic appeal.

The Indian textile industry is working towards achieving $250 billion by 2030, including $100 billion exports, he said.

Shortly, the Textile Ministry and the Department of Consumer Affairs would open state-of-the-art testing laboratories nationwide to ensure high quality textile products are manufactured and exported from India, Mr. Goyal said.

He introduced "Kasturi Cotton Bharat" brand, which he claimed could be traceable using blockchain technology, and that it would be "carbon positive".

The first set of textile products made using Kasturi cotton were also introduced at the event. Indian cotton farmers will benefit from drone-based pesticide spraying launched by Prime Minister Modi recently, the Minister said, adding that the use of innovation and Internet of Things will benefit Indian cotton farmers.

The four-day event on "Cotton Value Chain : Local Innovations for Global prosperity" attended by delegates from 35 countries. ■

CAI slashes cotton production estimate on pink bollworm infestation in Haryana

The Cotton Association of India (CAI) has revised its cotton production estimate for the current season (October 2023-September 2024) to 294.10 lakh bales (170 kg each) in its October estimate.

The estimate is against the projection of 295-10 lakh bales made earlier and 311,63 lakh bales last season.

The total supply for October 2023 is estimated at 54.74 lakh bales, which consists of arrivals of 24.34 lakh bales, imports of 1.50 lakh bales and the opening stock of 28.90 lakh bales, the association said in astatement.

The CAI has retained its consumption projection at 311 lakh bales, exports estimateat 14 lakh bales (16.72 lakh bales last season) and imports outlook at 22 lakh bales (12.5 lakh bales last season). Last season, too, the consumption was estimated at 311 lakh bales.

The Statement said the production has been pruned by one lakh bales following reports of damage to the crop in Haryana due to pink bollworm infestation and uprooting of plants by farmers.

"The committee members will closely watching the pressing numbers in the subsequent months and if any addition or reduction is required to be made, it will be incorporated in the CAI report," the CAI said in the statement issued by its president Atul S Ganatra.

According to CAI, production in northern India, comprising Punjab, Haryana and Rajasthan is estimated at 40.66 lakh bales against 41.66 lakh bales.

The production is down in Upper Rajasthan by seven lakh bales, with Pubjab, lower Rajasthan and Haryana reporting higher production.

In central India, comprising Gujarat, Maharashtra and Madhya Pradesh, the output is projected at 175.65 lakh bales (190.67 lakh bales last season).

The crop has been affected in all three States mainly due to truant weather. In southern India, the output is estimated at 65.60 lakh bales (72.95 lakh bales) with the crop being lower in Telangana, Andhra Pradesh and Karnataka.

However, it is higher in Tamil Nadu at 7.36 lakh bales (5.31 lakh bales). The crop has been estimated lower in Odisha and other States too. ■

COMFORT CLOTHING FOR CONSCIOUS CONSUMERS

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INTRODUCTION

Today consumers are increasingly looking for everyday garments offering greater comfort than ever before. In an era where comfort and sustainability are paramount, the demand for skin-friendly and sustainable clothing is on the rise. Intimate apparel is the most important clothing layer since it acts as human's second skin. As intimate apparel contacts with the skin directly, its comfort characteristics are more important than that of outerwear. The current intimate apparel and retail environments are challenging and there is a clear indication of consumer demand for extraordinary comfort and performance using fabrics that have special properties.

Moreover the space emptied by formals has been taken over by an increase in demand in athleisure and loungewear. Athleisure is casual comfortable clothing fit for exercise and everyday wear. One of the primary aspects driving this trend is a rise in consumer fitness and health consciousness, which is generating the demand for comfortable and fashionable clothes. The major brands are eyeing the casual apparel category as the consumer's focus is shifted to athleisure. Sustainability, a long-standing fashion trend, has made its way into the intimate apparel and athleisure sector. Hence, big brands have shifted their focus on the same. This article reviews the latest technological developments in fibers used in the manufacturing of intimate apparel products and casual wear and its impact on clothing comfort.

MOBILON

MOBILON is a polyurethane product developed by Nisshinbo Textile's proprietary polymer technology. High-quality, high-performance MOBILON products are made in Japan. They have excellent functionality and popular for their soft texture. Mobilon spandex offers comfort fit with soft power but firm grip.

Advantages:

- Its unique features are its soft elasticity and gentle recovery.
- MOBILON has a higher anti-slip effect than normal spandex and has excellent chlorine and light resistance.
- Compared to conventional dry type spandex, the soft stretch and tightness of this fabric makes it easy to move and comfortable to wear for long periods of time without feeling stress.
- Fabrics using MOBILON have superior anti-slip effect than dry spun spandex, because the contact area to skin is larger as the yarn is spun side by side.
- MOBILON fabrics can be heat set at lower temperatures, allowing acrylics, wools, and other fabrics that are sensitive to heat to retain their softness.
- They are also dimensionally stable and shrink less after washing.
- MOBILON has acquired OEKO-TEX certification, which is Class1 for babies. The CO2 emissions from the manufacturing process of MOBILON are significantly reduced compared to dry spandex.
- In addition, MOBILON has less impact on the environment because it does not use organic solvents.

End Uses:

- It is available in yarn, tape, band, film, and other forms. It caters to a wide range of products for apparel, medical, skin care, household products and other materials.
- MOBILON is effective in preventing fraying by heat-fusing spandex to each other. MOBILON has excellent anti-fraying effect and is ideal for non-run stockings and seamless inner wear.
- Its high strength retention rate makes it suitable for use in swimwear and other applications.

Nisshinbo Textile Inc. assures that they will contribute to the solution of environmental issue as 'Environment and Energy Company Group'.

DEOCELL

Consumers' awareness of hygiene and active lifestyle has created an increasing demand for anti-odor textiles. Deocell is a newly invented product whose main characteristic is to instantly neutralize surrounding odors. It also has a bacteriostatic function. It maintains its effect after washing, does not release harmful substances and is soft on the skin. Deocell is deodorant Modal natural cellulosic fibre. As Deocell is not a post processing fibre, its deodorant effect will be maintained even after several washes.

Technology:

- Deocell eliminates the alkaline odour by neutralizing ammonia or trimethylamine compounds.
- Deocell neutralises only the bad odours and does not kill the bacteria. It keeps the wearer all day fresh and the wearer does not have to spend additional money on perfumes.
- Deocell is nano treated at Japan on base of Lenzing micromodal fibre.
- This fibre basically eliminates three odours and the fabric can be very well termed as anti-acetic acid, anti-ammonia and anti-isovaleric acid.
- Also pH controlling is yet another important feature and the fibre retains pH in weak acidity and is friendly to the skin.
- By mixture of Lenzing Modal Microair into the fibre, the feel becomes much more softer.
- Deocell Dry is composed of polyester made from recycled plastic bottles and Deocell.
- Deocell Eco consists of Deocell, organic cotton and recycled polyester and is used to make eco-friendly yarn.

Processing guidelines:

- The content of Deocell fibre required is about 5-10 % for fabric materials with 100-200 gsm.
- While processing the yarns or fabrics with Deocell, the customers are advised to follow the process guidelines strictly.
- Hardness of water used for dyeing, bleaching and washing should be less than 30 ppm.
- Hydrogen peroxide bleaching is only recommended.
- pH has to be maintained between 5 and 5.5. anionic or non-ionic softener is only preferred.

PRELEAL – WarmCel yarn

WARMCEL yarn is an intimate blended spun yarn with 70% Acrylic Micro PRELEAL fibre from TOYOBA, Japan and 30% Viscose LIVA ECO fibre from Birla Cellulose, India. The Preleal offers a very soft pleasant feel acrylic microfibre of fineness 0.10 dtex or less using low-specific-gravity material resulting in light weight feel using EXLAN technology.

Advantages:

- Its unique features are its silky touch, soft texture, warmth and it doesn't get clammy as the gathering of microfibres that have capillary action can reduce clinging.
- Liva Eco Viscose is sustainable, bio-degradable and cellulosic origin.
- Ring Compact spun yarn delivers yarn of intimate fibre blending and even yarn and higher strength.
- Preleal Acrylic fibre offers superb heat retention. The heat retention ratio is double that of cotton when compared for similar fabric structure.
- Liva ECO Viscose absorbs moisture efficiently and micro acrylic supports in transporting the moisture thus keeping the skin dry.
- Sheen of the fabric and depth of colour are good with viscose blend and also the warmth is ensured due to better hygroscopic nature of the viscose cellulose.

ZINC + CEL

Zinc+Cel yarn is an intimate blended spun yarn with 60% Bamboo Viscose fibre and 40% Nano Zinc Oxide Polyester, Perma. Nano Zinc Oxide (nZnO) is added into the polyester fibre producing solution thus it is embedded into the fibre. Nano Zinc Oxide Polyester helps to eliminate the growth of Staphylococcus aureus and Klebsiella pneumoniae. These two bacteriae cause malodour, skin diseases, allergies, and other respiratory diseases. This functionality has been proven by international lab testing. Bamboo Viscose is produced from the wood pulp sourced out of bamboo which has anti-bacterial function. Ring SIRO Compact spun yarn delivers yarn of low hairiness and hence better pilling resistance, even yarn and higher strength.

Advantages

Anti-Bacterial and Anti-Odour:

Nano Zinc Oxide Polyester Perma offers microbial resistant textile. Reusable - 150 wash cycle test data shows that Zinc Polyester fibre helps in eliminating prominent bacterial growth. Mal odour causing bacteriae are eliminated by nano Zinc oxide polyester and the wearer stays fresh.

Moisture Management:

Bamboo viscose with good hygroscopic nature absorbs moisture rapidly and keeps the skin dry.

Skin Care Function:

Prevents acne, reduces infection rate and less odor. Bamboo viscose is soft to the skin with 60% constituent of the yarn. Bio Compatible/Skin irritation free fabric. Cytotoxicity Proof - Tested by Department of Bio Medical Engineering under ISO

COMFORT CLOTHING FOR CONSCIOUS CONSUMERS

10993:5-2009 has proved that Perma fibre is non-toxic / Cyto-toxcity proven.

UV- Protection:

Ultraviolet protection UPF 40+

Environmentally Friendly:

- Toxic chemical free
  - i) The Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) or the EU Chemical Regulations shows that there is no 201 toxic chemical leak to the environment through the Perma, Nano Zinc Oxide Polyester product. And Perma key element (Zinc Oxide) has international FDA approval.
  - ii) Oeko-Tex standard 100 - Annex 6, product class I, have shown that the PERMA goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX for baby article. It means, the product made from Perma fibre are eligible to use even for baby wear due to no harm.
- Non- Coated / Not Dilute – This is the key concept of nZnO polyester fibre, Perma. Perma does not follow any finishing treatment or coating method. Nano zinc oxide is mixed into the polyester polymers in the extrusion of fibre forming cycle.

EKS FIBRE

The movement of heat, moisture, and air through a fabric are key factors impacting the comfort of clothing. Through various technologies, fabrics can keep the body cool, warm, or thermo regulate in response to changes in environmental conditions including the wearer's body temperature and perspiration rate. Wear comfort can be divided into four main aspects such as thermal comfort, sensorial comfort, body movement comfort, and aesthetic comfort. Thermal comfort is the satisfaction of a person with the thermal environment, and to do so there is a thermal balance between the human body and the environment and the proper balance between body heat production and heat loss. Thus, the person feels neither too cold nor too warm.

EKS fibre is a high function acrylic fibre that creates a pleasant micro climate continuously in between your body and daily wear. Human body while idling at rest releases perspiration in the form of invisible vapour. It absorbs 'insensible perspiration' which is invisible in the form of vapour to keep the body dry and comfortable. It generates heat by absorbing moisture from human body

Properties:

- It is light weight with easy care properties.
- 7-20% EKS Acrylate can be added for thermal inner wear as per the requirement of cold weather in consumer's environment.
- It is economical than woollen blended garments.
- It cannot be dyed and only dope dyed / fibre dyed cellulosic fibres can be blended with EKS fibres.
- This is a hygroscopic heat generating material. The fibre also converts the kinetic energy of the absorbed water vapour into heat energy.
- Maintains a comfortably warm temperature inside the garment even in cold winter environment.
- It generates heat by absorbing moisture from human body.
- It has excellent deodorizing effect.
- Generally accumulation of moisture results in alkalization of salt and reproduction of unwanted bacteria creating unpleasant odour. The fibre has ability to neutralize the alkali and breakdown perspiration and odour.
- The fibre also has excellent insulation ability and locks in the generated heat and prevents it from dissipating.
- The speed with which it dries after washing is 3 times better than cotton

CONCLUSION

Sustainable clothing is characterized by its focus on durability, quality, and eco-friendliness. Brands embrace the ethos of comfort, quality, and eco-consciousness. In a world where comfort and sustainability are increasingly valued, skin-friendly and sustainable clothing has carved its niche. The garments not only prioritize comfort and style but also make a positive impact on the environment. It's a shift towards a more sustainable, responsible, comfortable clothing approach, enhancing our well-being while caring for the planet. As the industry examines areas of growth, brands are seeking partners with strong technical knowledge, ability to translate trends into consumers' favourite products, and global capabilities that leverage the opportunities that come with change. ■

A CRITICAL REVIEW OF THE USE OF HYBRID COMPOSITES IN HELMET DESIGN

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Abstract

This paper provides a detailed analysis of hybrid composites in helmet design, emphasizing their pivotal role in enhancing the safety and comfort of helmets used in high-risk activities. Hybrid composites blend diverse materials, each with unique properties, to create helmets that are not only safer but also lighter and more comfortable for the user. Through an examination of various academic studies, the paper delves into the specific attributes and advantages of these composites, including natural fiber-reinforced and Kevlar-based types. The findings highlight the significant improvements hybrid composites bring in terms of weight reduction, impact resistance, and environmental sustainability. The review also addresses the design challenges and the importance of computational modeling in optimizing helmet construction. The paper concludes by projecting the future trajectory of hybrid composites in helmet design, emphasizing their growing importance in advancing safety technologies.

Key words: Hybrid Composites, Helmet Design, Impact Resistance, Kevlar-Based Composites, Sustainability in Helmet Construction.

1. Introduction

Helmets are an essential piece of safety equipment, particularly in high-risk activities such as motorsports and extreme sports. Over the years, the design and materials used in helmet construction have evolved to provide better protection and comfort. One such material is hybrid composites, which are a combination of different materials, each with its unique properties and characteristics. This paper critically reviews the use of hybrid composites in helmet design. Specifically, it explores what hybrid composites are, why they are used in helmet design, and the advantages and disadvantages of using them. The aim is to provide a comprehensive understanding of hybrid composites' role in helmet design and their effectiveness in enhancing helmet safety and comfort.

2. Revolutionizing Helmet Design with Hybrid Composites

A range of studies have explored the use of hybrid composites in helmet design, with a focus on natural fibre-reinforced materials. Murali (2013) and Vali (2014) both investigated the use of sisal, banana, and jute-reinforced polymer composites in construction and industrial safety helmets, respectively, highlighting their potential for reducing weight and improving impact and compression strength. Raji (2021) furthered this work by developing a bike safety helmet using a hybrid composite of polyester resin, glass fiber, and coconut fiber, which demonstrated increased impact and flexural strength. Asyraf (2022) emphasized the importance of concurrent engineering in the development of natural fibre-reinforced polymer composites ballistic helmets, underscoring the need for multi-disciplinary collaboration and the potential for sustainable design. These studies collectively underscore the potential of hybrid composites in revolutionizing helmet design, particularly in terms of enhancing safety and sustainability.

Hybrid composites are a type of composite material made up of more than one type of reinforcing fabric. In the context of the study analyzed, Kevlar-based composites were used, including both non-hybrid and hybrid fabric composites Ismail, Set.al.(2022). Hybrid composites consist of a combination of different types of fibers, such as Kevlar, carbon, and glass Ismail, S et.al.(2022). The hybrid fabric helmets in the study were made using EC9-Glass and 3K-Carbon reinforcements along with Kevlar fabric plies Ismail, S et.al.(2022). The hybridization of materials does not improve the interlaminar shear strength of composites,but it does have intermediate values of energy absorption compared to non-hybrid composites Ismail, S et.al.(2022). The study also investigated two-fabric hybrid composites KGK and KCK, where glass and carbon fabric plies were placed between Kevlar front and rear layers respectively, as well as a three-fabric hybrid composite KCG, where all three fabric types were used in the composite Ismail, S et.al.(2022). Furthermore, hybrid composites are suitable to be integrated with polymer in composites Yahaya, R et.al.(2015). In contrast, natural fiber composites are different from hybrid composites, as they consist of a combination of natural fibers and polymer in composites Yahaya, R et.al.(2015). Although the text does not provide a direct definition or explanation of hybrid composites Ismail, S et.al.(2022), the information provided in the analysis helps to shed light on their characteristics and potential uses.

A CRITICAL REVIEW OF THE USE OF HYBRID COMPOSITES IN HELMET DESIGN

3. Hybrid Composites: Material Composition and Unique Propertie

Hybrid composites, which combine natural and synthetic materials, offer a range of unique properties and applications. Essabir (2016) found that the addition of a coupling agent to oil palm fiber/clay reinforced high density polyethylene improved the tensile and thermal properties of the composite. Jawaid (2019) highlighted the potential of hybrid composites in automotive, aerospace, wind turbine, and construction industries, particularly in the development of lightweight, environmentally friendly components. Pruthviraj (2012) emphasized the role of hybrid composites in achieving a combination of properties, such as tensile modulus, compressive strength, and impact strength, that cannot be realized in conventional composites. Kistaiah (2014) further underscored the importance of engineered biocomposites in meeting the needs of construction and commodity products while maximizing the sustainability of natural resources.

4. Impact Resistance: The Pivotal Advantage of Hybrid Composites in Helmet

Hybrid composites, particularly those incorporating natural fibers, have been shown to enhance the impact resistance of helmets. Meliande (2022) and Salman (2016) both found that the replacement of aramid with natural fibers such as curaua and kenaf improved impact resistance in ballistic helmets. Murali (2013) and Vali (2014) further support this, demonstrating that the use of natural fiber-reinforced composites in construction and industrial safety helmets can significantly enhance impact strength. These findings collectively underscore the pivotal advantage of hybrid composites in helmets, particularly in terms of impact resistance.

5. The Multifaceted Benefits of Hybrid Composites in Helmet Engineering

Hybrid composites, particularly those incorporating natural fibers, offer a range of benefits in helmet engineering. Murali (2013) and Vali (2014) both highlight the potential for reduced weight and improved impact and compression strength in construction and industrial safety helmets. Meliande (2022) further explores the use of hybrid composites in ballistic helmets, finding that the replacement of aramid with curaua fiber can provide cost savings and sustainability benefits. Pruthviraj (2012) provides a broader perspective, noting the potential for hybrid composites to achieve a combination of properties not possible with traditional materials, and their increasing use in various engineering applications.

6. Addressing the Challenges: The Complexities of Hybrid Composite Helmet Design

A range of studies have explored the use of hybrid composite materials in helmet design. Murali (2013) and Vali (2014) both highlight the potential of natural fiber-reinforced composites in construction and industrial safety helmets, respectively, for their weight reduction and improved impact and compression strength. Walsh (2008) emphasizes the importance of considering the environment, usage patterns, and threat scenarios in the design of warfighter head protection, and suggests that advances in materials and computational tools can enhance ballistic resistance through hybridization. Raji (2021) further supports this, demonstrating the positive impact of adding coconut fibers to a polyester resin composite in a bike safety helmet, which increased impact and flexural strength. These studies collectively underscore the potential of hybrid composite materials in addressing the complexities of helmet design, particularly in enhancing protection and comfort.

7. Looking Ahead: Future Research and Applications of Hybrid Composites in Helmets

A range of studies have explored the use of hybrid composites in helmet design, with a focus on improving impact and compression strength. Murali (2013) and Vali (2014) both used natural fiber-reinforced polymer composites to enhance these properties in construction and industrial safety helmets, respectively. Walsh (2005) and Raji (2021) took a different approach, investigating the use of hybrid ballistic materials and a combination of polyester resin, glass fiber, and coconut fiber in bike safety helmets. These studies collectively highlight the potential of hybrid composites in enhancing the safety and performance of helmets.

8. Design Impact

The design of impact-resistant helmets is crucial to safeguard against head injuries caused by high-velocity impacts Ismail, S et.al.(2022). Therefore, ballistic-grade materials are used in helmet design to withstand larger impact forces Ismail, S et.al.(2022). Hybrid composites are a popular material used in helmet design to improve impact resistance Ismail, S et.al.(2022). For instance, Kevlar-glass sandwich composites are an attractive option for developing

protective helmets because of their lower cost and impressive impact resistance properties Ismail, S et.al.(2022). A study was conducted to investigate the high-velocity impact resistance and energy absorption performance of composite helmets in hybrid and non-hybrid stacking sequences. The results revealed that neat Kevlar and Kevlar-glass sandwich hybrid composite helmets withstood the projectile, while all other hybrid helmets were completely perforated during impact Ismail, S et.al.(2022). To efficiently and reliably develop composite hybrid ballistic helmet design, computational modelling methods are employed. These methods are used to identify and simulate engineering-related problems in the development process of ballistic helmet design Ismail, S et.al. (2022). In conclusion, hybrid composite materials are used to improve the impact-resistance of helmets, particularly in ballistic helmet design.

9. Conclusions

The examination of hybrid composites in helmet design reveals several key insights:

1. The integration of natural and synthetic fibers in hybrid composites has led to helmets that are not only stronger but also lighter, enhancing both safety and user comfort.
2. Evidence suggests that helmets crafted from hybrid composites, particularly those utilizing natural fibers, offer enhanced impact resistance, a critical factor for high-risk activities.
3. The incorporation of natural fibers in hybrid composites marks a step towards sustainable development in helmet design, offering an eco-friendlier and cost-effective alternative to traditional materials.
4. Creating helmets with hybrid composites involves navigating various design complexities, including environmental considerations and usage demands. Computational modeling emerges as a key tool in effectively addressing these challenges.
5. The scope for future research in this field is vast, with ongoing advancements poised to further improve the effectiveness, lightweight nature, and resilience of helmets, extending their application across diverse sectors.

In addition, hybrid composites stand at the forefront of innovative helmet design, offering a harmonious blend of safety, efficiency, and sustainability. Their continued evolution is expected to significantly impact the development of protective gear across various industries.

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FACEBOOK FOR EMPOWERING WOMEN FASHION ENTREPRENEURS

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Abstract

This study delves into the multifaceted ways in which Facebook empowers women in the fashion business. Through a qualitative approach, content analysis was done to examine how women entrepreneurs utilise Facebook to access resources, build communities, engage with their audiences, and advocate for causes. The findings illuminate the transformative impact of social media on women's entrepreneurship in fashion, offering insights into the mechanisms through which digital platforms empower women and reshape the industry's narrative. Ultimately, this study contributes to a deeper understanding of the evolving role of women entrepreneurs in the digital fashion landscape and underscores the significance of social media in fostering empowerment and inclusivity within the fashion business using the Social Media Empowerment Theory.

Keywords: Social Media, Women Empowerment, Fashion Business, Facebook

1. Introduction

The world of fashion has witnessed a remarkable transformation in recent years, the power of social media being one of the reasons. Women entrepreneurs, in particular, have harnessed the capabilities of platforms like Facebook to establish and grow their fashion businesses. In an era characterized by digital innovation and social connectivity, the fashion industry has undergone a profound transformation. The emergence of social media platforms, particularly Facebook, has not only revolutionized how fashion is consumed but has also paved the way for a new generation of women entrepreneurs to shape the industry in unprecedented ways. This study delves into the dynamic realm where technology and fashion intersect, exploring how women entrepreneurs leverage Facebook's features and strategies to empower themselves and their businesses. As fashion enthusiasts and businesswomen, these women have harnessed the power of social media to redefine traditional norms, challenge conventions, and amplify their voices. Guided by the framework of Social Media Empowerment Theory (SMET), this research endeavours to uncover the nuanced ways in which Facebook serves as a catalyst for women's empowerment within the fashion business, transcending geographical boundaries and societal expectations.

1.1. Women and Fashion

Women have played a central and transformative role in the world of fashion for centuries. From Coco Chanel's revolutionary designs that liberated women from corsets to trailblazers like Vivienne Westwood challenging societal norms through punk fashion, women have consistently pushed the boundaries of style and self-expression. The fashion industry owes much of its creativity and innovation to women designers, models, and entrepreneurs who have left an indelible mark.

Over the years, there has been a progressing focus on diversity and inclusivity within the fashion world, largely driven by women. Models like Naomi Campbell, Ashley Graham, and Adwoa Aboah have championed body positivity and greater representation of different races and body types on runways and in campaigns. Women-led initiatives and organizations, such as the #MeToo movement, have also sought to address systemic issues like sexual harassment in the fashion industry, advocating for safer and more equitable workplaces.

Women in fashion have not only influenced clothing but have also reshaped the way we perceive beauty and fashion's role in society. With increasing emphasis on sustainability and ethical production, women entrepreneurs are leading the charge toward a more responsible and eco-conscious industry.

The fashion industry continues to be a dynamic and transformative space, and the contributions of women remain integral to its evolution, offering fresh perspectives, creativity, and a commitment to making fashion more inclusive and socially responsible.

1.2. Women and Fashion Business

The fashion business, once primarily dominated by male designers and entrepreneurs, has undergone a remarkable shift in recent decades, with women playing an increasingly influential role. Women have emerged as creative forces, entrepreneurs, and leaders within the fashion industry. Their contributions span every aspect of the fashion business, from designing innovative collections that challenge traditional norms of

beauty and style to founding successful fashion startups and leading renowned fashion houses. Women entrepreneurs have leveraged their unique perspectives, creativity, and business acumen to shape the industry's landscape and redefine fashion on their terms. Moreover, many women in the fashion business have championed inclusivity, body positivity, and sustainability, driving transformative changes that resonate with diverse audiences worldwide. As the fashion business continues to evolve, women's impact on its direction and values remains a powerful and enduring force, inspiring a more inclusive and diverse fashion world.

1.3. The Digital Fashion Revolution

The fashion landscape, once defined by exclusive runways and glossy magazines, is now a dynamic digital arena. Social media platforms like Facebook have democratized the industry, offering a stage for emerging talent and a global marketplace for entrepreneurs. In this age of instantaneous communication and visual storytelling, women entrepreneurs have emerged as powerful drivers of change. They have embraced the digital frontier to carve out niches, build communities, and dismantle traditional barriers. As the fashion business undergoes this digital metamorphosis, women entrepreneurs stand at the forefront, utilizing Facebook's myriad features and strategies to challenge norms, foster inclusivity, and redefine empowerment in the context of fashion entrepreneurship.

1.4. Facebook and Women Fashion Entrepreneurs

Facebook has emerged as a transformative platform for women fashion entrepreneurs, providing them with a dynamic space to thrive and excel in the industry. With its vast user base and diverse features, Facebook offers a level playing field where women can showcase their fashion creations, build brands, and connect directly with their target audience. Whether it is through the creation of visually stunning posts, engaging content, or live streaming fashion shows, Facebook empowers women entrepreneurs to tell their unique stories and assert their voices in a traditionally competitive field.

The social media giant's advertising tools also play a pivotal role in the success of women fashion entrepreneurs. Through targeted ad campaigns, entrepreneurs can reach specific demographics, ensuring their products are seen by those most likely to make a purchase. This not only helps in expanding their customer base but also in optimizing marketing strategies.

Moreover, Facebook provides a valuable platform for community building, where women fashion entrepreneurs can connect with individuals who are like-minded and potential customers. Fashion groups and communities on the platform serve as hubs for discussions, collaborations, and mentorship, fostering a supportive ecosystem.

Through Facebook, women fashion entrepreneurs are not only thriving in the industry but also reshaping its narrative. They are promoting inclusivity, sustainability, and ethical practices, challenging traditional beauty standards, and advocating for diversity in all its forms. In this digital age, Facebook has become a significant tool for women fashion entrepreneurs to realize their creative visions, challenge conventions, and redefine empowerment in the fashion business.

2. Objective of the Study

To investigate how women entrepreneurs in fashion business leverage Facebook features and strategies for empowerment, guided by Social Media Empowerment Theory (SMET).

3. Review of Literature

According to Hossain and Rahman (2018), it is evident that entrepreneurship plays an important role in sustainable development and poverty reduction by creating job opportunities and supporting underserved populations such as young and women. It is clear that women's entrepreneurship has become a critical driving force in the country's economic growth and social development. Women today realize the importance of entrepreneurship, as seen by the increase in the number of female entrepreneurs. The arrival of social media has surely opened doors to new prospects for women.

Agreeing to Bhattacharyya (2020), several patterns have been observed in the economic environment over the decades and have quickly faded. Occasionally, the emergence of some phenomena has the potential to significantly modify and influence the business environment; one such phenomenon is social media, which is frequently used interchangeably with the phrase Web 2.0. Social media platforms range from social networks to private social networks to blogs and micro-blogs. Facebook, LinkedIn, Instagram, Twitter, Skype,

WhatsApp, Viber, WordPress, YouTube, Flikr, Google+, Pinterest, Quora, Reddit, and Snapchat are some of the most prominent and frequently used social networking services. However, of all social media platforms, Facebook is the most widely used by businesses and marketers.

Conferring to Brahem and Boussema (2023), social media has provided new horizons and entrepreneurial prospects for women to pursue their entrepreneurial goals. The choice to launch social commerce was driven primarily by pull motivations. Facebook's favorable qualities have enabled women to build client networks, employ nature marketing tools for free, and develop a good attitude toward entrepreneurship. Finally, while the informal character of business on Facebook is appealing, the majority of women find formalization difficult. It appears that their desire to expand their enterprises leads them to the formal sector.

Conferring to Nguyen (2011), social media platforms such as Facebook, YouTube, and Twitter, among others, are fundamentally changing the way businesses and consumers interact. It has provided opportunities as well as obstacles for marketers. In the fashion sector, Facebook can be utilized to raise brand awareness. Facebook is a useful tool in that it may assist marketers in understanding the behavior of their customers. In the fashion industry, brand is earned mostly through creative management. The strategies include using word of mouth, mutual interest, hyper-segmentation, engaging consumers in emotional and intimate conversations, providing discounts, and promoting on Facebook. Additionally, images, videos, and fashion suggestions should be included. Another strategy is to provide customers opportunities to express themselves and make them feel like they are a part of a community.

Corresponding to Gamboa and Gonsalves (2014), Facebook improves the relationships that increase loyalty through trust, customer happiness, perceived value, and commitment. Our findings show that these relationships are stronger for brand fans than for non-fans, implying that consumer happiness is the most important factor of loyalty. This points to a new channel for marketing managers to build client loyalty: Facebook. Facebook provides a variety of tools for users to manage their profiles. They can communicate with pals and share their views and happenings through status updates. In terms of subscribers and activity, Facebook is the most important social media platform. Facebook can be utilized to reach a larger number of individuals at a minimal cost. As a result, Facebook is an important platform for brand promotion.

Bestowing to Arreola (2016), social media is a platform that fosters the emergence of entrepreneurs. Social media entrepreneurship, as a type of entrepreneurial emergence, is based on gaining access to previously unavailable social capital via the use of social media. Through contacts with others in his network, the emerging entrepreneur can fuel his creative process, analyse market demands, and design a commercial endeavour. What distinguishes social media entrepreneurship from other types of entrepreneurship is that social media can be a single source of adequate social, human, and financial capital, thereby completing the ingredients required for entrepreneurial development. In contrast to other social networking networks (e.g., LinkedIn), Facebook does not require third-party introductions or the approval of intermediaries in order to meet new individuals, allowing for the rapid acquisition of new contacts. Facebook does not enforce any restrictions prohibiting the informal sale, selling, or advertising of things, and in fact gives many instruments for the commercialization of products or services, which forms a fundamental liberty required for aspiring social media entrepreneurs.

4. Research Methodology

Researchers employed qualitative research methods to gain in-depth insights into the experiences and strategies of women entrepreneurs in fashion business on Facebook. Qualitative research is well-suited for exploring the multifaceted nature of empowerment. Participants were selected conveniently to ensure diversity in terms of business size, fashion niche, and geographical location to explore empowerment within the fashion industry. Analysis of Facebook posts, comments, and interactions was done to understand how the entrepreneurs engage with their audience and convey empowerment-related messages. This will include visual content analysis of images and videos shared on their Business Pages. Content analysis of Facebook posts categorizing posts and interactions related to empowerment themes, including access, voice amplification, community building, resource mobilization, and engagement was done.

4.1. Theoretical Framework

Social Media Empowerment Theory (SMET) is a theoretical framework that explores how social media platforms, such as Facebook, empower individuals and groups, particularly marginalized or underrepresented communities, to achieve their goals, assert their voices, and effect positive change. In the context of the study, SMET provides a lens through which to understand how women entrepreneurs in the fashion industry leverage Facebook's features and strategies to empower themselves and their businesses.

5. Findings and Discussion

5.1. Access and Inclusivity

One of the foundational principles of SMET is access and inclusivity. Facebook, as a widely accessible platform that offers women entrepreneurs an equal footing in the fashion business. Regardless of their geographical location or financial resources, women create Business Pages and showcase their fashion creations, ensuring inclusivity in an industry that historically favoured established players. Facebook plays a significant role in promoting access and inclusivity for women entrepreneurs in the fashion business. It provides a platform that empowers women to enter and thrive in the fashion industry regardless of their geographical location, financial resources, or background. Here are some ways in which Facebook facilitates access and inclusivity for women in the fashion business:

a. **Global Reach:** Facebook is a global platform with over 2 billion monthly active users worldwide. This expansive reach enables women fashion entrepreneurs to showcase their products to a diverse and international audience, breaking down geographical barriers.

b. **Affordable Marketing:** Facebook offers cost-effective marketing options, including targeted advertising and promoted posts. Women entrepreneurs with limited budgets can use these tools to reach their ideal customers without the need for extensive financial resources.

c. **Ease of Use:** Facebook's user-friendly interface and accessibility make it an approachable platform for individuals with varying levels of technical expertise. Women entrepreneurs easily create and manage their Business Pages, even without a background in web development.

d. **Community Building:** Facebook Groups and Pages allow women entrepreneurs to build communities around their fashion brands. These digital spaces provide a supportive environment where like-minded individuals can connect, collaborate, and share experiences.

e. **Direct Customer Interaction:** Facebook facilitates direct interaction between entrepreneurs and their customers. Women entrepreneurs can engage with their audience through messages, comments, and live chats, fostering a feeling of connection and trust.

f. **Marketplace Feature:** Facebook Marketplace provides an additional avenue for women fashion entrepreneurs to sell their products locally and globally. It offers a convenient platform for fashion items.

g. **Visibility and Recognition:** Facebook's algorithm prioritizes engaging and relevant content. The women entrepreneurs consistently create quality content to gain visibility and recognition, regardless of their initial level of fame or resources.

h. **Supportive Ecosystem:** Facebook's Small Business Hub and resources provide guidance and support to women entrepreneurs in establishing and growing their fashion businesses. This ecosystem offers educational materials and networking opportunities.

i. Inclusive Advertising: Facebook's advertising tools allow entrepreneurs to reach specific demographics and audiences. Women entrepreneurs target their advertisements to resonate with diverse groups, promoting inclusivity in their marketing efforts.

j. **Access to Trends and Insights:** Facebook offers valuable insights into audience demographics and behaviours. Women entrepreneurs use these analytics to refine their strategies and tailor their products to meet customer preferences.

k. **Content Diversity:** Facebook supports various content formats, not limited to text, images, videos, and live streams. This diversity allows women entrepreneurs to showcase their fashion products and creativity in ways that suit their preferences and resources.

5.2. Amplification of Voice

SMET posits that social media platforms amplify voices, providing a global stage for individuals and

groups. Women entrepreneurs in fashion are using Facebook to share their stories, design philosophies, and unique creative visions. Through visually appealing posts and engaging content, they are not just showcasing their products but also asserting their presence in a competitive field.

Facebook has emerged as a significant and powerful tool for amplifying the voices of women in the fashion business. It provides a platform where women fashion entrepreneurs can share their stories, creative visions, and fashion philosophies with a global audience. Here's how Facebook amplifies the voices of women in the fashion industry:

a. **Storytelling through Visuals:** Women showcase their fashion creations through high-quality images and videos, allowing them to tell compelling brand stories and convey their unique design aesthetics effectively.

b. **Personal Branding:** Through their Facebook Business Pages and profiles, women entrepreneurs establish and strengthen their personal brands and share their journey, values, and inspirations, allowing their audience to connect on a personal level.

c. **Direct Engagement:** Facebook facilitates direct engagement between entrepreneurs and their audience. Women answer questions, respond to comments, and engage in meaningful conversations while fostering a sense of community and trust.

d. **Live Streaming:** Facebook Live offers a real-time way for women fashion entrepreneurs to interact with their audience. They host live shows, behind-the-scenes tours, and product demonstrations, allowing viewers to actively participate and engage with the brand.

e. **User-Generated Content:** Women entrepreneurs encourage customers to share photos and testimonials of themselves wearing their fashion products. This user-generated content not only amplifies the brand's voice but also builds a sense of community and authenticity.

f. **Content Virality:** Engaging and shareable content can quickly go viral on Facebook. When women entrepreneurs create content that resonates with their audience, it has the potential to be shared widely, amplifying the brand's visibility and message.

g. **Advocacy and Causes:** Women entrepreneurs use Facebook to advocate for causes they are passionate about, such as sustainable fashion, body positivity, or social justice. Their amplified voices can bring attention to important issues and inspire action.

h. **Peer Networking:** Facebook allows women fashion entrepreneurs to connect with peers and colleagues in the industry. Networking with other designers, influencers, and professionals can lead to collaborations and opportunities to amplify each other's voices.

i. **Inspiring Success Stories:** By sharing their own success stories and experiences as women in the fashion business, entrepreneurs inspire others who aspire for the same. These stories amplify the message that success is achievable for all.

5.3. Community Building

Community building is another integral aspect of SMET. Women entrepreneurs harness the power of Facebook Groups and communities as spaces for connecting with like-minded fashion enthusiasts. These digital communities serve as platforms for discussions, collaborations, and mentorship, creating a supportive ecosystem for women in the industry.

Building a strong and engaged community on Facebook is a valuable strategy for women in the fashion business. A supportive and active community helps fashion entrepreneurs connect with their target audience, foster brand loyalty, and drive growth. Here are steps and strategies women fashion entrepreneurs use for community building on Facebook:

a. **Dedicated Facebook Page:** Entrepreneurs create a Facebook Business Page specifically for their fashion business. This page serves as the hub for their community-building efforts.

b. **Define Brand Identity:** Most women entrepreneurs clearly define their brand's identity, values, and mission with consistent branding elements, such as logo, colours, and messaging, across their Facebook Page and all promotional materials.

c. **Consistent and Quality Content:** They regularly post high-quality content that resonates with their target audience. They share visually appealing images of fashion products, behind-the-scenes glimpses, style tips, and relevant industry news.

d. **Engage with Audience:** Entrepreneurs respond to comments, messages, and questions promptly. They also encourage discussions by asking questions, seeking feedback, and initiating conversations related to fashion trends, style choices, or industry developments.

e. **Exclusive Offers and Promotions:** Entrepreneurs use exclusive offers, discounts, or early access to new collections to incentivize engagement and loyalty.

f. **Educational Content:** Women entrepreneurs share informative content related to fashion, styling tips, and industry insights, thereby positioning themselves as an authority in their niche by providing valuable knowledge.

g. **Host Contests and Challenges:** They also organise fun and interactive contests and style challenges that encourage participation and creativity among followers.

h. **Collaborations:** Entrepreneurs partner with other fashion brands, influencers, or complementary businesses for collaborative promotions or giveaways. This helps expand their community reach.

i. **Community Guidelines:** Fashion entrepreneurs set clear and positive community guidelines to ensure a respectful and inclusive atmosphere, and also address any inappropriate or negative behaviour promptly.

j. **Consistent Posting Schedule:** Women entrepreneurs establish a consistent posting schedule to keep their audience engaged and informed, and use Facebook Insights to identify optimal posting times for the audience.

k. **Feedback and Surveys:** The entrepreneurs ask for feedback and suggestions from the community by conducting surveys or polls to involve them in decision-making and show that their opinions matter.

l. **Track and Analyse Data:** Entrepreneurs use Facebook Insights and other analytics tools to track the performance of their posts and engagement metrics, adjust their strategies based on the data to optimize community-building efforts.

5.4. Resource Mobilization

SMET highlights how social media enables resource mobilization. On Facebook, women entrepreneurs can access a plethora of resources, from marketing tools and e-commerce integration to customer feedback and market trends. Through targeted advertising and insights, they mobilize resources to expand their businesses and enhance their market presence.

Resource mobilization on Facebook is a valuable strategy for women in the fashion business. By effectively leveraging the platform's tools and features, entrepreneurs access resources to grow and sustain their fashion venture. Here are ways they mobilize resources on Facebook:

a. **Facebook Ads:** The entrepreneurs invest in targeted Facebook advertising campaigns to reach a wider and more specific audience. They use the advertising platform to promote fashion products, drive website traffic, or generate leads.

b. **Facebook Shops:** Fashion entrepreneurs set up a Facebook Shop to showcase their fashion products in an organized and visually appealing manner to allow customers to browse their catalog, make purchases, and contact the business directly.

c. **Messenger for Customer Service:** The entrepreneurs use Facebook Messenger as a customer service tool to respond to inquiries, provide product information, and address customer concerns promptly. Excellent customer service leads to increased sales and positive reviews.

d. **Crowd funding Campaigns:** Entrepreneurs have a chance to consider launching crowd funding campaigns for new fashion collections or projects. They can use Facebook to share campaign updates, engage with backers, and promote fundraising efforts.

e. **Networking in Groups:** Women entrepreneurs join Facebook Groups related to fashion, entrepreneurship, or their niche to engage with members, share expertise, and network with potential collaborators or investors. Groups are valuable for making connections and accessing resources.

f. **Events:** Entrepreneurs host virtual fundraising events or sales events on Facebook Page or through Facebook Live. These events attract customers, generate sales, and raise funds for specific initiatives or projects.

g. **Online Marketplaces and Boutiques:** Women entrepreneurs collaborate with online marketplaces or boutiques that use Facebook

as a sales channel. Partnering with established platforms help them reach a broader audience and increase sales.

h. **Resource Sharing:** The entrepreneurs share valuable resources, such as e-books, fashion guides, or industry insights, with the Facebook community. This not only provides value to the audience but also positions them as an expert in their field.

5.5. Engagement and Activism

Engagement and activism are key components of SMET. Women entrepreneurs are using Facebook to actively engage with their audience. Live streaming fashion shows, behind-the-scenes glimpses, and product demonstrations allow real-time interaction, fostering a sense of community and trust. Moreover, these entrepreneurs are advocates for causes such as sustainable fashion, body positivity, and inclusivity, driving meaningful conversations and change within the fashion industry.

Facebook serve as a powerful platform for engagement and activism for women in the fashion business. It allows fashion entrepreneurs to not only promote their brands but also advocate for causes they are passionate about, foster inclusivity, and drive positive change. Here are ways to engage and activate Facebook audience as a woman in the fashion industry:

a. **Raise Awareness:** Women entrepreneurs use the platform to raise awareness about important issues within the fashion industry, such as sustainable fashion, ethical production, body positivity, or fair labour practices and also share informative posts, articles, and statistics to educate their audience.

b. **Advocate for Inclusivity:** Fashion entrepreneurs promote inclusivity and diversity in their fashion business, showcase models of different sizes, races, and backgrounds wearing products, celebrate and highlight underrepresented voices and talents in the fashion world.

c. **Support Causes:** The entrepreneurs align the business with causes that resonate with their values and mission. The share information about charitable organizations to support or fundraising campaigns involved in to encourage their audience to join in making a positive impact.

d. **Interactive Campaigns:** They launch interactive campaigns or challenges that encourage engagement and activism, for example, create a hashtag campaign related to a cause they care about and encourage their followers to participate.

e. **Storytelling:** Entrepreneurs share personal stories or experiences related to their journey in the fashion industry as authentic storytelling resonates with the audience and inspire them to take action.

f. **Transparency:** Entrepreneurs are also transparent about their business practices, including sustainability efforts, materials used, and ethical commitments that demonstrate their dedication to positive change.

g. **Engage in Dialogue:** The women entrepreneurs engage in respectful and informative dialogue with individuals who may have differing opinions or perspectives to encourage constructive conversations that promote understanding.

h. **Advocate for Women's Empowerment:** As a woman in the fashion industry, they advocate for women's empowerment and equality, and celebrate and support the achievements of other women in the field to inspire others.

i. **Call to Action:** They can encourage their audience to take specific actions, such as signing petitions, donating to causes, or supporting ethical brands, and provide clear calls to action in their posts.

6. Conclusion

The impact of women entrepreneurs leveraging Facebook features and strategies reaches far beyond individual businesses. Collectively, they are reshaping the fashion industry's narrative. By challenging conventional beauty standards, promoting ethical and sustainable practices, and advocating for diversity, women are influencing not only consumer choices but also the broader ethos of fashion.

Facebook's accessibility, affordability, and global reach make it an empowering platform for women fashion entrepreneurs, fostering inclusivity and providing opportunities for business growth. It democratizes access to the fashion industry, allowing women from diverse backgrounds to participate, connect, and succeed in the world of fashion. Facebook serves as a dynamic and inclusive platform where women fashion entrepreneurs amplify their voices, share their creativity, and

connect with a global audience. Through visual storytelling, direct engagement, and advocacy, it empowers women to shape the narrative of fashion on their terms and inspire positive change within the industry. Various strategies help women in the fashion business create a thriving and engaged strong Facebook community that not only enhances brand visibility but also fosters brand loyalty, trust, and advocacy among the audience, ultimately driving success in the fashion business. The platform's diverse features and extensive reach make it a powerful tool for resource mobilization within the fashion industry.

By using Facebook as a platform for engagement and activism, women in the fashion business not only promote their brands but also contribute to meaningful change within the industry and society as a whole. It is an opportunity to leverage their influence and platform for positive impact.

In conclusion, Social Media Empowerment Theory (SMET) serves as a compelling framework to understand how women entrepreneurs in the fashion business leverage Facebook's features and strategies for empowerment. Through access, voice amplification, community building, resource mobilization, and engagement, these women are not only thriving in the industry but also driving change and shaping a more inclusive, sustainable, and diverse future for fashion. Their success stories on Facebook illustrate the transformative power of social media in advancing women's entrepreneurship and empowerment in the fashion world.

Acknowledgement: This work is funded by PSG College of Arts & Science under the Intuitional research SEED grant.

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Texprocil to rollout blockchain for certifying Kasturi cotton

The Cotton Textiles Export Promotion Council has rolled out a blockchain-based teachnology to enable traceability of garments and fabrics made of Kasturi cotton using QR code. The government has appointed the Cotton Corporation of India and Texprocil as the nodal agency to promote Kasturi as the premium cotton brand from India.

Texprocil has registered 300 ginners on its platform that certifies the premium 29-30 mm cotton with trash content of 2 per cent and other defined matrix. The Kasturi cotton will fetch a premium price of 5-6 per cent for farmers.

Lalit Kumar Gupta, Chairman and Managing Director, CCI, said the industry expects an output of 300 quintals of Kasturi cotton in the first year of production. The quantity will increase in the coming years as the farmers realise the benefit of growing cotton the meets the specification to be branded as Kasturi cotton, he said at the event to announce the 81st plenary meeting of the International Cotton Advisory Committee in Mumbai.

Roop Rashi, Textile Commissioner, said the event which is themed as "Cotton Value chain : Local innovations for global prosperity" would serve as a platform for sharing goods practices and experiences across the globe on productivity, climate resilience and circularity for a vibrant cotton economy.

In a bid to promote Kasturi cotton among global audience, she said textile minister Piyush Goyal will launch a logo and stamp of the cotton brand Kasturi.

Siddhartha Rajagopal, Executive Director, Texprocil, said CCI will identify the farmers who want to sell cotton that meets Kasturi specification and the Council will certify the cotton bales after doing the due diligence.

Once the cotton is certified, a specific QR code will be generated and it will be updated as it changes hands from ginners, spinners and weavers. The final garment made of kasturi cotton will have a QR code which can be used to trace back the ginner he said.❐

Cotton connect unveils digital traceability platform Trace Bale

Cotton Connect, which helps global brands source cotton fairly and sustainably by creating robust and resilient raw material supply chains, has launched a traceability platform, TraceBale.

The platform is now available as a tool to all in the apparel industry to help brands address the growing challenges around trust and transparency in the suply chain. The potential it provides for large cotton producing nations such as India is also significant, as a solution to transparency challenges in the cotton supply chain, Cotton Connect said in a statement.

The digital platform offers farm-group-to-end-garment manufacturing traceability. Trace Bale has been in the making for ten years. "It builds from CottonConnect's in-depth work with retailers and suppliers to understand what takes place at each stage of the supply chain," the company said.

The platform has already been adopted by 18 retailers, including The White Company, Mark's, C&A, it said.

Alison Ward, CEO, CottonConnect, said, "The cotton supply chain is complex as cotton goes through multiple stages and can be traded many times, often across borders, before a finished product reaches the store. Our expertise in the sustainable cotton sector and close relationships with cotton farmers and brands have enabled us to produce a traceability solution that is customisable to retailers' needs."

Through collaborations with partners including DNA-marker-provider Haelixa, one of the most innovative elements of TraceBale is its ability to combine digital traceability with physical traceabililty. Using unique DNA marking teachnology, TraceBale captures all relevant data showing that the marked material is in the supply chain and used to manufacture the finished product. It also enables brands to track right back to the source of their raw materials, including tracking last-mile delivery from farms to gins to spinners, the statement said. ❐

Vaishnaw emphasises on export-led growth

After Achieving Success in domestic mobile manufacturing, the government is working on a strategy for an export-led growth for smartphones and electronics, communications and IT minister Ashwin Vaishnaw told of late in an exclusive interview.

"Today Indian has become part of the global value chain (GVC) of mobile phones and electronics. Now we are looking at a strategy of export-led growth rather than simply import substitution and looking at our needs," Vaishnaw said. "A great opportunity has come our way and we have reached a level where we can rapidly grow our exports," he added.

For an export-led growth in mobile phones and electronics, the ministry of electronics and IT (MeitY) will work closely with the ministry of finance for making movement of goods across borders very smooth. Vaishnaw said this is needed as the nature of GVC is such that goods keep crossing borders multiple times before the final product is made. "Speed is important in this process," he added.

According to him, what all needs to be looked at to make multiple transaction across borders more smooth are import duties, processes, automation, and warehousing.

The minister's observations are quite timely and relevant. If one looks at Vietnam, its domestic market for mobile phones and electronics in value terms is worth $2 billion but exports around $40 billion. In the case of India, the domestic market is worth $33 billion but exports as of FY 23 was $11 billion. So there's immense scope to grow.

Vaishnaw said that India has reached a level where the domestic component ecosystem has started getting developed. He said that in electronics manufacturing the volume of the final products need to cross a threshold then components start coming from domestic sources. "That threshold has been reached. Today we can comfortably say that close to 30% (in volume terms) of components has started getting manufactured domestically and this will grow rapidly now," Vaishnaw said.

Pointing towards India's success in developing a domestic ecosystem in a short period of time, he said that in 25 years the domestic value addition by China in electronics manufacturing chain is 30-40% in value terms and Vietnam's at 20-25% in a span of 15 years. "In value terms India's domestic value addition is around 15-18% in 9 years, so we are quite close to Vietnam," Vaishnaw said, Semi-conductors play the biggest role in pullling up the value of domestic value addition.

The minister said that what matters is at what point of time a country becomes part of a GVC and that has already happened in the case of India. Vaishnaw said that what's noteworthy is that exports of several components, which include mechanicals, chargers. PCB assemblies etc, have started from India.

Explaining the way GVC works and why duties, processes, automation, and ware houses matter, Vaishnaw said that the nature of GVC is such that everything crosses boundaries of at least two countries more than once. For instance, components come, then they are put in a phone or a laptop, then it goes to some other country for server fitment, than again comes back to the country from where it went for final assembly, "So there's movement across borders multiple times. It's a complex system," the minister said, adding warehouses come into picture because one warehouse may be storing products for several manufacturers and supplying them components as well. The government has MOOWR (Manufacturing and other operations in a customs bounded warehouse) Scheme, for this. Under it, manufacturers import components which are used for domestic production for export purpose. Such imports did not attract any import duty or any other taxes. However, in the FY 24 Budget the government levied IGST (integrated goods and services tax) on such imports at the rate of 18%.

This, analysts say, will adversely impact domestic manufacturing under various production linked incentive schemes like IT hardware and smartphones. US-based semiconductor manufacture, Micron Technology, has already flagged its concerns regarding this move. ❐

High inflation dampens holiday cheers of apparel exporters

Christmas and New Year demand from US and European buyers amid persistently high inflation in those markets has failed to bring cheer to the country's apparel trade.

Exporters from Tiruppur, the Tamil Nadu town that accounts for 55% of the country's apparel exports, said global brands have bought low-priced garments like simple t-shirts that cost around $2 per piece, in contrast to fashion garments and jackets priced $8-10 per item that they bought last year during the holiday season.

Traditionally, shoppers in the US and Europe prefer to buy high priced items during the Christmas and New Year period. "They discard the old ones and buy fashionable and heavy garments which are suited for the winter season. But surprisingly, our overseas bulk buyers say that this year the shoppers are buying simple items like innerwear and t-shirts, and are not much inclined to costlier garments," said Raja Shanmugam, managing director of Tiruppur based knitwear company Warsaw International. "Apparently, high inflationary pressure is keeping the US and EU shoppers away from buying high-priced garments."

High inflation hurts the purchasing power of consumers. Both the US and Europe are struggling with high inflation, caused by a ramp up in demand after the pandemic and supply chain disruptions due to the Russia-Ukraine war, among other reasons.

"Leading global brands have taken low priced items this year for the holiday season. After the 2008-09 economic crisis, we are witnessing this trend for the first time," said Shanmugam, also a former president of Tirupur Exporters Associations.

Added K Balakrishnan, partner of Tiruppur-based knitted garment manufacturing and exporting firm Aahana International. "People are talking about lower demand in the US and Europe. We are supplier to Australia and there too we are facing a similar trend. The situation is gloomy."

According to KM Subramanian, president of the Tiruppur Exporters Association, the Christmas and

EXPORT PROSPECTS AND MARKETS

New Year demand this year is down by 40%."We were hopeful that demand for the holiday season would pick up from September. But unfortunately, that did not happen. The smaller units, in particular. had been hard hit."

The Tiruppur cluster has 30,000 units, including ancillary units. In the April-September period, or the first half of this fiscal year. Tirupur had exported goods worth $1.84 billion. a drop of 20.6% compared with $2.32 billion recorded in the corresponding period a last year, according to data from the commerce and industry ministry.

"Because the order position is poor, the units are operating four days a week instead of six. This will assist the units in controlling operational expenses even though the profit margins will also be affected. We were expecting that the situation would improve from September, but that didn't happen," said Shanmugam.

Half of the estimated 600,000 workers in Tirupur is migrants. Already 25% the migrant workers have left for better opportunities as they are earning least at Tirupur due to fewer days of production.

Meanwhile, garment suppliers to the Middle East are better off. Johnson Guru, owner of PoleStar Garments, said : "We still have orders in hand. But many units in the neighbouring areas have hardly any export orders in hand." ❐

Good shining for Textile Inudstry

After experiencing contraction for a year ; textile production and exports are trotting back to normal, having got rid of inventory pileup even as stock buildup due to Christmas holiday season in the West continues to drive export demand. September marked the third consecutive month of expansion for the industry, and experts expect the growth to sustain in the second half of 2003-24.

"We are expecting a pick-up in production for the remainder of the year. Last year also,the turnaround happened post January," said a senior official who requested not to be identified.

Textile production grew 3.7% year on year in September ; as per Index of Industrial Production (IIP) data released recently, outpacing the 1.6% uptake registered in August.

"The industry has bottomed out and is in a revival phase now," said Sanjay Jain, chairman of Indian Chamber of Commerce's national expert committee on textiles. "The inventory pipeline that was built up during Covid has now finished, and the Ukraine war is now de-escalated, which is helping the industry improve," he said. Textile exporters believe the country can post an 8-10% annual Jump in exports in FY24.

Enquiries are up 10-20% over last year due to the improving demand scenario in the US, Australia and the UAE, they said. The US is among the largest importers of textiles along with the European Union.

"We will sustain this growth because the US had reduced buying due to the war and is now low on inventory," said Ashok Rajani, founder chairman of Midas Touch Exports. "We expect growth in the next 4-6 months as the feel-good factor is coming back. The order book is 15-20% better than what it was 4-5 months ago," he said.

Exports of cotton fabric, yarn and handloom products were up 5.7% during April-October, compared with April-October, compared with April-August period when they were 2% less than last year's levels, according to data from the Ministry of Commerce and Industry.

However, the industry is yet to reach pre-Covid production levels, Although the gap in production from pre-pandemic levels halved from the start of the year ; textile production was still 6.5% lower in September compared to the 2019-20 period, according to data from the Ministry of Statistics and Programme Implementation (Mospi).

Many experts believe a complete recovery to pre-Covid levels is a long way away.

"This uptick is a reflection of inventory pile-up for the festive season in western economies," said Sunil Kumar Sinha, principal economist at Ind Ra, referring to production and export spurt in September and October.

Long-term recovery would depend on improving global trade conditions, he added. ❐

India will be Pepe Jeans' largest market in 2 years

Pepe Jeans global chief executive officer Mercella Wartenbergh said India will become its largest market in the next two years, outpacing its home country Spain and the UK, helped by young consumers increasingly embracing western-style clothing.

"We are seeing accelerated growth in India compared to more mature markets and have outpaced in terms of sales and profit. Also, Gen Z still doesn't have enough money and it is really millennials and Gen Y that will drive the market and we need to make

sure the brand fits them, "Wartembergh told recently in an exclusive interaction. "One of the big advantages that India has is they are very close to the suppliers and that helps to be much faster in innovation."

For the clothing retailer, which also owns menswear brand Hackett, India is the biggest market by volume and accounts for nearly a third of its global sourcing. Pepe India sales grew over 50% to ₹560 crores during the year ended March 2023 but claimed its consumer revenue on price tag is over ₹1,100 crores.

However, nearly 90% of its sales in India are from meanswear compared to 65% in Europe, a salience it wants to change now. The company aims to expand footwear and women western wear, a market which is completely dominated by global rivals including Zara and H & M.

"We believe women are becoming much more modern in India driven by western influence, and are also playing an important role in business. If our women's wear is just 30% of what we earn from men's merchandise, the numbers will swell," added Wartenberge, who joined in 2019 replacing earlier CEO Carios Ortega, a Spanish entrepreneur who still has a stake in the apparel and accessories group.

"So the growth will come by creating new lines, improving our margins, and gaining market share."

Pepe, the second largest denim brand in the country, operates more than 200 branded outlets and most of them franchisee run. It was founded by Indian origin siblings Arun, Nitin and Milan Shah in London in 1973 as a roadside stall in Portobello Road, but has changed hands since. In February 2015, the Pepe Jeans Group was bought by LVMH subsidiary L Capital Asia and M1 Group from a clutch of investors.

India is an attractive market for US and European brands and has, over the past few years, attracted a clutch of the world's largest apparel brands including Gap and Uniqlo that are banking on young consumers across price-points. In a McKinsey & Company report The State of Fashion 2024 released of late, India emerged a promising market for fashion, despite the global economic outlook continuing to be unsettled in major markets, directly impacting consumer confidence and spending. ❐

Exports may have declined in 2023

India's Merchandise Exports in 2023 would not buck the larger global trends and are set to contract 5.3%, according to an analysis by trade policy think tank. But the performance of electronics segment stands out, giving indications that support measures might work for other priority sectors too.

According to the United Nations Conference on Trade and Development, global exports would see a contraction of 5%, while China has reported a 5.2% drop in merchandise exports in January-November.

In 2023, India's merchandise exports decreased to $429 billion from $453 billion in 2022, a fall of 5.3%, while the decline in imports was deeper at 7% to $669.6 billion, according to the projections by Global Trade Research Initiative (GTRI). Services exports increased 10.5% on year to $333.6 billion, while services imports were stable at $176.4 billion. The services sector helped India record an overall exports growth of 1% at $763 billion. As fall in imports is more than exports, the overall trade deficit (merchandise and services) will decline to $82.8 billion from $141.3 billion.

Within India's export basket, 78% of the products by value are expected to decline 11.6% on year in 2023 to $320 billion. "The decline can be attributed to weak global demand and India gradually losing competitiveness in labour intensive sectors," the GTRI analysis said.

The high priority items that have seen a decline in 2023 are engineering and petroleum products that account for almost 50% of total exports by value. Following closely behind are chemicals, gems and jewellery, textile and garments, leather, handicrafts, carpets and some agriculture products. During the year, smartphones emerged as a major success story for India, with its exports projected to surge to $13.9 billion in 2023 from $7.2 billion in 2022. This significant increase contributed to the overall rise in electronics exports, which reached $26.8 billion, marking a growth of 26.2%. There has been a noticeable increase of 25% in import of electronic components to $30 billion in 2023. This has impacted imports of finished electronic products like computers, laptops, and other hardware as they dropped from $13.8 billion in 2023 from $15.4 billion last year.

"These trends indicate early success of the production-linked incentive scheme and suggest strengthening of India's electronics manufacturing capabilities," author of the analysis and co-founder of GTRI Ajay Srivastava said.

Success in electronics under-scroes the necessity for India to adopt a similarly focussed strategy to rejuvenate exports in labour-intensive sectors. Small firms active in these sectors face 10-15% cost dis-advantages vis-a-vis the competition due to high cost of capaital, low quality grid power, delays at the ports and higher compliance cost. However, PLI is not an answer to product categories like textiles, leather and handicrafts where thousands of firms make the same products as it will put non-recipients to disadvantage.

"A horizontal scheme extending 2-3% incentive to every firm in the sector will help in meeting some of the cost disability," Srivastava added. ■

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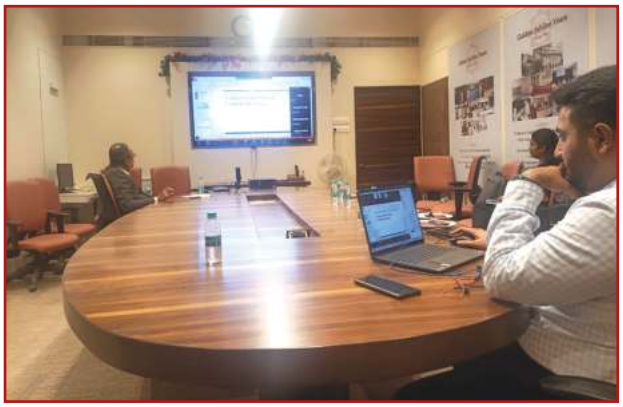
ITAMMA kicked off the on-line series of webinars also at PAN India for the Development of Capital Goods Sector of Textile Industry with the funding support of Ministry of Heavy Industry with 1st Webinar on 21st November 2023 involving founder community of R&D, the Academicians and their Role in the Development of Capital Goods Sector

Ms. Shangrila A Sharma being moderator Introduced eminent speakers

Key take-a ways of the Seminar at Solapur on 30th October 2023 jointly with TDF

This gathering was a testament to the industry's commitment to a continued collaboration with Academia and its impact on technical innovation and progress in the capital goods sector OF Textile Industry.

- **Mr Nimesh Shah,** President ITAMMA (2023/24) in his welcome address mentioned " that the statistics of Capital Goods Sector of Textile Industry is not encouraging as we are fulfilling only 50/55 % of home consumption while about 83 % imports are recorded for the Accessories and Components. And so the presentations made today by the Eminent speakers and stalwarts of the Industry will definitely help in bringing out the development of the Capital Goods Sector especially in the Textile Engineering Sector ".



- **Dr Anirban Guha,** Professor, Indian Institute of Technology (IIT), Dept. of Mechanical Engineering, in his presentations on "Initiatives taken at IIT, Mumbai in regard with 3 –D Fabric, Cloth roll mechanism, Bullet proof jacket and 4 hydrogen pressure vehicle. Their research has led to technological advancements and innovations that benefit the capital goods sector. This could include developing new manufacturing processes, improving the efficiency of machinery, and exploring new materials for Manufacturing and production.

  Dr Guha also introduced the gathering to SINE-Society for Innovation and Entrepreneurship." It is one of the earliest incubators in academia with a potential to create startups focusing on economic growth, strategic value, and social relevance." It is an organization flourishing under the aegis of IIT Bombay.

- **Dr. Saatish Lavate,** Faculty, Department of Textiles, DKTEs Textile and Engineering Institute, in his presentations on "Initiatives taken at Department of Textiles, DKTEs Textile and Engineering Institute in the Capital Goods Sector of Textile Industry" informed about the Dr Lavate presented all the innovative machines that his students had manufactured after intense studies and research. He emphasized the need for technology transfer activities, ensuring that the latest research findings and technological advancements are applied in real-world applications. This can involve collaborating with industry partners to implement research outcomes, licensing technologies, or establishing spinoff companies based on academic innovations.

- "SMART DATA CLINIC – a proposed value-added platform on ITAMMA's Business Enabler Website " Mr. Mehul Goswami, Director/Digital Business Enabler, Sambuq.com India Pvt Ltd. highlighted how the ITAMMA Business Enabler Platform powered by SAMBUQ offers valuable assets to members and shared future plans for enhancing its role in knowledge and business development for the Textile Engineering and Manufacturing Industries.

This session discussed the latest marketing strategies and digital tools that can benefit the capital goods sector.

- **Mr N D Mhatre,** Director General (Tech), ITAMMA explained the various schemes of MHI stressing upon the benefits to Academicians in taking forward their innovations from pilot plant /laboratory to production level in the industry. Mr Mhatre specifically stressed upon the important role of Industry Experts in bringing this process as a successful experiment, as the students can bring out the out-of-box ideas on the Desk Research, however the same can be successfully disseminated on the grass-root/production level with the help of Industry Experts, who have enormous expertise and experience in the implementation of such projects. While summing –up his presentations he mentioned that UNESCO study of Gross expenditure in R & D spend by the Government, Business Enterprises and Educational Institutes states that Indian Government stands 2nd highest, whereby Japanese Government is far behind and still in Technology Japan is at top.

ITAMMA kicked off the series of webinars also at PAN India ..... Capital Goods Sector

Mr N D Mhatre, Director General (Tech), ITAMMA, informed that a detailed study needed to

be performed about the number of total number of innovations applied for, attended, successful/ failure and their reasons, etc. This will help in strengthening the eco-system of fund allocation and also in saving the considerable time.

The webinar showcased the industry's commitment to innovation, efficiency, and the continuance of technological excellence with the help of government initiatives. It shed light on how academic research translates into technological advancements, the pivotal role of education in shaping the workforce, and the collaborative initiatives that strengthen the ties between academia and industry.

The event underlined ITAMMA's dedication to empowering its members and fostering industrial growth.

The event was organized by our MoU partner, M/s SAMBUQ.com India Pvt. Ltd. who invited more than 2500 delegates out of which about 75 attended the webinar.

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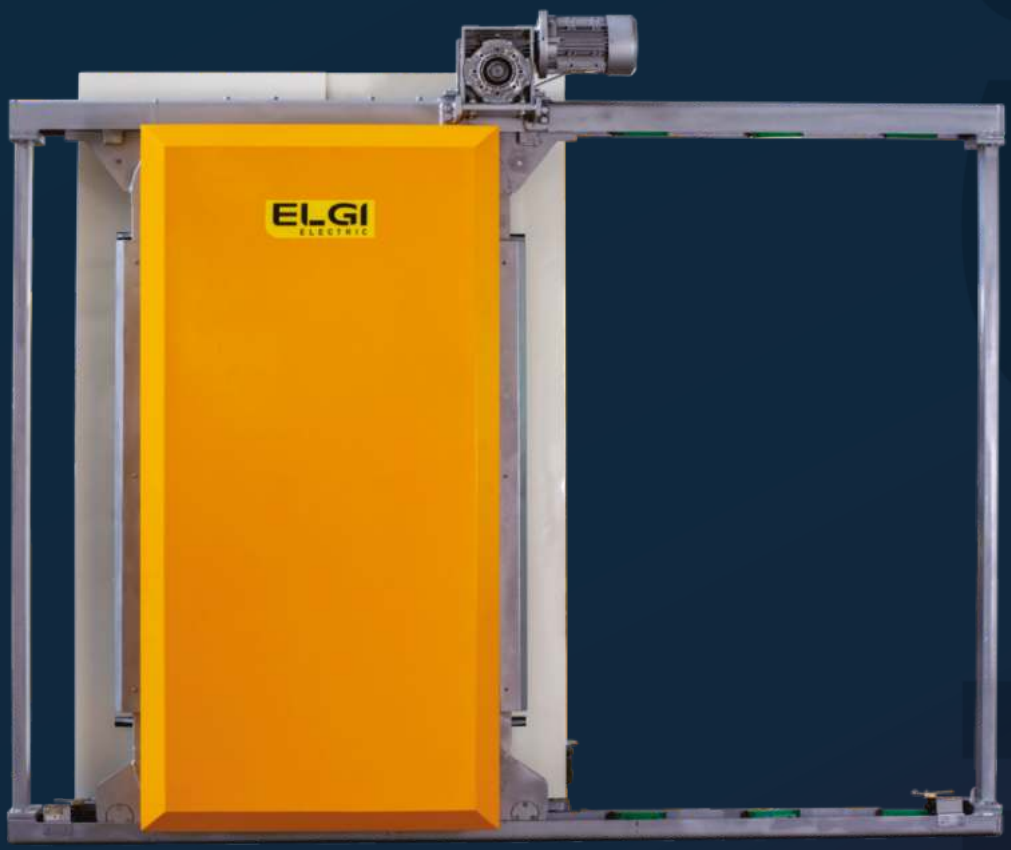

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Birla Cellulose unveiled Sustainability Agenda in Home Textiles at Karur Hub-Meet

Birla Cellulose, a pioneer in sustainable fiber solutions, hosted a pivotal hub-meet at The Residency in Karur, emphasizing the transformative potential of sustainable Man-Made Cellulosic Fibers (MMCF) in the Home Textiles sector. This meet was attended by 175 prominent exporters and company owners from the Karur cluster, the event aimed to pave the way for sustainable innovation in the industry.

The central theme of the discussions centered on the application of sustainable MMCF solutions in the Home Textiles domain, offering a gateway to eco-friendly, high-quality products that resonate with modern consumer preferences for sustainability. The hub-meet witnessed an active participation from esteemed value chain partners, such as AGT Mills, PKPN, Kumaran, and Ultimax, showcasing a collective commitment to drive sustainable practices across the textile ecosystem.

Distinguished guests such as Mr. K. G. Prithvi, Vice President of Karur Textile Manufacturer Exporters Association and, Mr. S. Gowrisankar, Deputy Director of the Textile Committee in the Karur cluster, along with industry stalwarts like Mr.Perumal, Managing Director of South Indian Textiles, and Mr. Kaliappan, Managing Director of Anboli Fabrics, graced the event.

"Karur's home textile industry welcomes Birla Cellulose's initiative to hand hold them into the adoption of MMCF range. The representatives of Birla Cellulose solved many ambiguities about MMCF which the members had and also provided a much confident purpose to pursue Birla Cellulose's fibres into the regular product offerings as well. The process for incubation has begun and we look forward for more sustainable and economical substitutes for existing raw materials." shared Mr. K. G. Prithvi - Vice President - Karur Textile Manufacturer Exporters Association. Mr. Kaliappan, the Managing Director of Anboli Fabrics added "The elaborate presentation on Birla Cellulose's product offerings, provided a deep insight into the possible applications of the fibres in home textiles."

The highlight of the session was the profound interest exhibited by exporters in Birla Cellulose's innovative products, prompting a desire to embark on trial initiatives for adoption. Their flagship product Spunshades garnered special attention due to its innovative Color Lock Technology that prevents fabrics from fading even after multiple washes as dye pigments are embedded into the fibre versus conventional fabric piece-dyeing.

"We are delighted and encouraged by the positive response from industry leaders and exporters at the Karur hub-meet. Our deep discussions and eagerness to explore our products reinforce our belief in the transformative power of responsible innovation. Our innovative product Spunshades and other MMCF solutions are poised to redefine the Home Textiles landscape, and the overwhelming interest shown here is truly encouraging," shared Sheerish Kumar, Senior Vice – President, Business Development - Home Textiles of Birla Cellulose.

About Birla Cellulose

Birla Cellulose, the pulp and fibre business of the Aditya Birla Group, is a leading sustainability focused Man-Made Cellulosic Fibres (MMCF) producer. Birla Cellulose operates multiple pulp and fibre manufacturing sites that apply environmentally efficient technologies. Birla Cellulose tops the Hot Button Ranking and has been accorded a 'dark green shirt' by the Canopy Planet Society. Its global advanced research centers are equipped with state-of-the-art facilities and pilot plants. Birla Cellulose's fibers are made from renewable wood and are produced using a closed-loop process with significantly lower carbon emissions and lower resource consumption. Birla Cellulose's fibers such as Livaeco viscose, Livaeco Modal, Excel™ (lyocell), and Spunshades™ Eco- Enhanced are manufactured with accredited sustainability benchmarks and deliver superior performance. LivaReviva is a circular viscose fibre made using cotton waste and provides a solution to recycle fashion industry waste into fresh fibers. Birla Cellulose collaborates actively with its upstream and downstream partners with an aim to create a bigger and broader positive impact on sustainability of its value chain.

Visit: www.birlacellulose.com

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CORPORATE NEWS

Oerlikon Barmag and Nanshan Fashion inked a contract on the Strategic Cooperation Agreement for PA6 and PA 6.6 solutions

Oerlikon Barmag and Nanshan Fashion (Shandong Nanshan Fashion Technology Co., Ltd.) signed a contract on the "Strategic Cooperation Agreement" for their latest nylon POY+DTY project in Longkou, Shandong, China, at the ITMA ASIA + CITME 2022, right now happening at the NECC in Shanghai.

"For Oerlikon, it is the first time we have had the opportunity to work with an integrated textile manufacturer representing a well-known brand, DELLMA. This should help us to better understand the ongoing developments in the consumer market and the demands that these market developments place on the manmade fiber industry, said Georg Stausberg, CEO Oerlikon Polymer Processing Solution at the first day of the show.

Oerlikon Barmag and Nanshan Fashion signing ceremony at the first day of the ITMA ASIA + CITME 2022 in Shanghai.

"It is the first time for Nanshan Fashion to enter the field of manmade fiber production. We at Oerlikon Barmag are pleased and proud that Nanshan Fashion has chosen our company as partner for this step. We are the market leader for many technologies in the field of chemical fiber production and we will support Nanshan Fashion with all our experience in establishing a new branch of your business," said Stausberg.

"I am convinced that both parties are strongly committed to building Nanshan Fashion's nylon business into a benchmark in the nylon industry and moving towards brand internationalization. This cooperation is a milestone for both parties," said Zhao Liang, Chairman and General Manager of Shandong Nanshan Fashion.

China National Textile and Apparel Council (CNTAC) President Sun Ruizhe also joint the signing ceremony at Oerlikons booth in hall 7.1, A55. He said: "Congratulation to both companies. We can see a bright future for this cooperation. Within the China textile industry, we need further international partnerships like Oerlikon Barmag and Nanshan Fashion."

As a leader in the manmade fiber equipment industry, Oerlikon Barmag has always been known for its high-speed, efficient, energy-saving, and stable yarn quality, as well as its complete supporting equipment and services, providing solutions that cover the entire textile value chain. Over the years, Oerlikon Barmag and several leading companies in the manmade fiber industry have jointly completed several large-scale projects from melt to yarn, laying a solid foundation for the development of China's textile industry. In recent years, Oerlikon Barmag has focused on innovation, continuously optimizing the spinning design, updating the WINGS family, and developing the EVO DTY machines. In addition, Oerlikon Barmag is increasingly focusing on sustainable production. Since the introduction of the e-save label for all products in 2004, Oerlikon Barmag has continued to move towards greater eco-friendliness and efficiency.

The cooperation with Nanshan Fashion is Oerlikon Barmag's first project to provide a complete solution for nylon filament. The scope of supply includes a complete set of equipment from chip drying, spinning, winding to texturing. The achievement of an integrated quality control from chip to yarn is of great significance.

According to the "Strategic Cooperation Agreement," both parties will engage in equal, win-win and complementary cooperation based on mutual trust and long-term development considerations. Target will focus on high-end nylon production by implementing the concept of green production and pursuing excellence and innovation in PA processes. Among them, Oerlikon Barmag will provide high-quality and high-performance differentiated nylon filament production solutions, integrate the advantages of Nanshan Fashion's scientific and technological R&D resources, and jointly promote the global leading position of "Oerlikon Barmag & Nanshan Fashion" joint brand in the nylon filament industry.

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.

The division is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 13 000 employees and generated sales of CHF 2.9 billion in 2022.

For further information: www.oerlikon.com/polymer-processing

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As a advanced industrial printing sector Mimaki developed latest large format LED-UV flatbed printer

A JFX-Plorationwith Mimaki – 6 AWESOME ways the JFX600-2513 can transform your PrintShop

In today's competitive market, staying ahead of the curve is crucial for businesses seeking success. Here at Mimaki we are committed tocreate a more efficient andadvancedindustrial printing sector.With that in mind, we developed our latest large format LED-UV flatbed printer, the JFX600-2513, which stands out as a game-changer in this field. This cutting-edge printer combines precision, speed, and versatility, offering an array of state-of-the-art features that make it an unbeatable choice for professionals in the printing industry.

In this blog we willexplorethe potential that the JFX600-2513 has to transform print shops, discussing some of its vital functions, and delving into how it can benefit our customers, positioning them for success.

1. Versatility

Adaptability is key, and the JFX600-2513 ensures you're ready to take on any project that comes your way. Glass, wood, metal, from flat surfaces to textured substrates. You name it, this machine can print on it. It's this versatility that makes Mimaki's 7th generation LED-UV technology so beneficial for customers. Usersare able to pursue creativity without limitations on a printing bed size of 2.5x1.3 meters, allowing forboth large and small prints.

Moreover, various types of ink can be used with the JFX600-2513, including rigid and flexible, depending on the type of application you're going for and the material being printed on. This means that materials such as glass, can have the right ink to best match with the surface texture and still provide the upmost quality. These inks can be printed with up to 17 layers, with a thickness of up to 0.5mm to allow for 2.5D textured prints, with differing effects, such as embossed and debossed.

2. Speed

Time is money, and we at Mimaki understand that. Developing new technologies is largely about improving efficiencies and productivity, and the JFX600-2513 does just that. Boasting higher speeds, over three times faster than its predecessor, the machine can reach printing speeds of up to 200m²/h depending on the job at hand. This is achieved with the use of 16 printheads - more than in any of our previous UV flatbed printers - ensuring quick turnaround times.Now printerscan painlessly meet deadlines, satisfy customer demands, and maximize their overall efficiency.

3. Functionality

User-friendliness and functionality are paramount with the JFX600-2513,pre-equipped with the intuitive Mimaki Printer Controller software. This combines machine setup, printer operation and job control via a large user-friendly touch panel. From this display dashboard, customers can monitor and control settings remotely, switch effortlessly between jobs, and even be provided with important machine alerts,

such as when the ink is running low. The automated maintenance features and advanced ink circulation system minimize downtime and simplify routine tasks, saving valuable time and effort.

Additionally, the interface streamlines operations, making it easy for beginners and seasoned professionals to have seamless control over job management. The printer also comes IoT ready, allowing for smoothintegration into large-scale production lines.

4. Precision &Quality

The 16 printheads previously mentioned don't only give the machine a hefty speed boost, but they have also improved the quality of the final print. They enable much more precise printing, with a4-colour configuration, or 8-colour configuration for higher definition finishing. These printheads also go hand in hand with our Mimaki Advanced Pass System(MAPS4) technology, which uses algorithms to calculate the best way to inject the ink drops on the varied materials.The stunning output helps businesses to impress with a competitive edge in the market.

5. Sustainability

Mimaki's commitment to environmental sustainability shines through with the JFX600-2513, as it utilizes UV-LED technology. This technology helps printers reduce energy consumption and minimise environmental impact, allowing users to reap the benefits of a greener printing solution without compromising on performance.

6. Potential

Many Mimaki customers have already discovered the unique applications and lucrative opportunities that our technology presents.

Starglas, a Mimaki customer from Germany, have used our UV technology to master the niche of printing digitally on all things glass. In fact,90% of the detailed and intricate products they create are completely unique. With the JFX600-2513 having an effortless and one-touch workflow, printers handling bespoke projects like this can switch between jobs and design with ease. With the additional speed and quality afforded, it's clear to see how this will increase efficiencies all round, especially for companies looking to run larger scale operations.

For customers likeD-POS, who createindoor and outdoor decorations using glass, metals, woods, plastics and more, the JFX600-2513 brings significant benefits. There is no limit to the potential oftheir creative applications, from decorative kitchen splashguards, to detailed finishes for outdoor wooden panelling. It's no surprise that the JFX600-2513is a great option forany company looking to further enhance their offerings without having to sacrifice quality.

Whether you're aiming for demanding industrial prints, unique personalization and decorations, or artistic creations, it empowers you to achieve extraordinary results. Don't miss out on the chance to revolutionize your printing capabilities and unlock endless possibilities with the Mimaki JFX600-2513.

About Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers and cutting machines for the sign/graphics, industrial, textile/apparel 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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Bluesign hosts an interview with Kutay Saritosun

As the denim industry converges at the upcoming KINGPINS NY at Pier 36 on January 24 and 25, 2024, we're excited to offer you an exclusive opportunity to interview Kutay Saritosun, Director of Brand Services and Partnerships at bluesign. Working for ISKO for

almost a decade before joining bluesign, Kutay is a renowned expert in sustainable denim textile and chemical solutions. He will be on-site to speak about the new bluesign® Denim Initiative: A Sustainable and Responsible Choice.

- Commitment to Environmental Sustainability: bluesign® Denim epitomizes the commitment to sustainable practices in the textile industry. It represents a significant shift towards environmentally-friendly production, focusing on clean chemistry that minimizes harmful impacts on both the planet and its inhabitants.

- Collaborative Efforts for Cleaner Production: The bluesign® team works in close partnership with denim manufacturers to phase out hazardous inputs and integrate sustainable processes. This collaboration ensures that every stage of denim production, from raw material sourcing to final product, adheres to the highest standards of environmental responsibility.
- Innovative Approaches to Denim Manufacturing: bluesign® Denim leverages cutting-edge technology and innovative methods to produce denim that sets a new benchmark in clean and sustainable fashion. These techniques not only enhance the quality and durability of denim but also ensure that production processes are eco-friendly and safe.
- Guaranteeing Worker and Consumer Safety: By striving for the cleanest denim in the world, bluesign® ensures that both workers in the manufacturing process and end consumers are exposed to safe, non-toxic materials. This commitment extends to all aspects of worker welfare and consumer health.
- Promoting Sustainable Consumer Choices: bluesign® Denim allows consumers to make responsible fashion choices without compromising on style or quality. The range offers the unique blend of individuality and sustainability, enabling consumers to express themselves while supporting eco-conscious fashion.
- Forthcoming Developments and Partnerships: The attached PDF outlines exciting upcoming announcements regarding the bluesign® Denim program and its collaborations. These developments mark significant milestones in the journey towards more sustainable denim manufacturing globally.
- Expert Insights from Industry Leaders: Kutay Saritosun, a denim industry expert, is available for interviews to provide deeper insights into bluesign® Denim's objectives and strategies. His expertise and dynamic vision for sustainable denim production are invaluable for understanding the future of eco-friendly fashion.

Why meet with Kutay Saritosun of bluesign:

- • Gain firsthand insights into bluesign's commitment to sustainable denim through. Kutay will explore the innovative strategies bluesign employs to enhance clean fashion in the denim industry
- • With his extensive background, including an 8-year tenure at ISKO Denim, Kutay offers valuable perspectives on sustainable supply chain management within the textile sector.
- • Kutay is well-versed in the implications of the EU Green Deal and upcoming textile legislation on a global scale. His insights are crucial for grasping the future of sustainable and circular textiles.

This interview is a chance to delve into the intricacies of sustainable denim, particularly focusing on bluesign's efforts to revolutionize production. Kutay's expertise will provide your audience with an in-depth understanding of the current trends and future directions in sustainable fashion.

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Santoni Shanghai is set to acquire Terrot, a Pivotal Realignment of the Circular Knitting Machine Industry

Acquisition establishes Santonias the world's top circular knitting machine producer, unifying the fragmented industry through its robust Ecosystem Strategy

Santoni Shanghai Knitting Machinery Co., Ltd., made an appearance at the ITMA Asia + CITME 2022, and is honored to announce that it has received regulatory approval from Chinese authorities for its proposed acquisition of Terrot GmbH, a leading manufacturer of circular knitting machines in Germany.

CORPORATE NEWS

The acquisition represents a pivotal step in Santoni's strategy to advance the circular knitting machine industry. The integration of Terrot into the Santoni ecosystem is projected to increase Santoni's production capacity and boost its market share, and in conjunction with other strategic objectives, firmly solidify Santoni's position as the leading manufacturer in the industry, with unrivaled scale, depth of innovation and expertise.

Seeking to meet rising demand for high-end circular knitting products, Santoni has pursued an Ecosystem Strategy in recent years, aiming to unify a highly fragmented industry and enhance innovation, sustainability and digitalization to more effectively meet market needs. The deployment of both parties' latest innovation practices, textile automation offerings, integrated enterprise services, C2M solutions, and a platformfor designers "Materialliance", will allow Santoni Shanghai and Terrot to connect and bridge demand and offer of circular knitted products, delivering substantial added value to clients.

By incorporating Terrot's offerings, particularly in the double jersey and jacquard sector, Santoni stands to gain a competitive edge in offering high-efficiency machines known for their superior performance, low maintenance, and cost-effectiveness. Highlighting this shift, Terrot's patented UCC 572-T got showcased at the upcoming ITMA Asia + CITME 2022in the Santoni's Shanghai premises. This state of the art high-feeder transfer jacquard machine for sports and leisurewear in fine gauges will offer a glimpse into the potential of future collaboration.

"I am very excited about today's announcement," said Gianpietro Belotti, CEO of Santoni Shanghai. "The acquisition of Terrot, including the reputable Pilotelli brand, will allow us to deliver on our commitment to building a stronger, more consolidated global ecosystem capable of yielding a sustained competitive advantage in the circular knitting machine industry. Looking ahead, we aim to cultivate an even more extensive talent pool and solutions portfolio, creating synergies that empower us to deliver a superior knitting experience to our customers."

"Today's excellent news represents the coming together of two outstanding teams," said Robert Czajkowski, Managing Director of Terrot GmbH. "Santoni Shanghai's strategic acquisition broadens our global manufacturing capabilities, augments our technological expertise, and strengthens every link along the supply chain, allowing us to offer innovative textile performances to the global market more effectively."

"We look forward to upholding Terrot's 'Made in Germany' heritage while further growing its strong brand at Santoni," said Dirk Lange, Terrot GmbH Co-Managing Director. "With our shared passion for innovation and our mutual vision for a more efficient and sustainable textile and apparel industry, we are poised to drive incredible transformation by enhancing the production of superior textile machinery and inspiring customers with fresh approaches to growth."

Following the acquisition, Terrot will continue to operate under the leadership of managing directors Robert W. Czajkowski and Dirk Lange. Santoni Shanghai plans to maintain Terrot's headquarters in Chemnitz, Germany, along with its facilities, brands, and practices.

About Santoni Shanghai

Established in 2005, Santoni Shanghai Knitting Machineries Co., ltd. offers a full range of innovative textile knitting products and solutions to its customers. With two decades of journey, its business expanded with multidimensional organic growth and through acquisitions. Today Santoni Shanghai owns several circular knitting machines brands, particularly JingMei for the large diameter, Hengsheng for the mid and SOOSAN for the small diameter before adding up Terrot and Pilotelli both focused on large diameter production. Fueled by this enormous combination of capabilities Santoni Shanghai aims to take the experience of its customers to a different level with the development of the ecosystem that offers a Knitting Platform for the intelligent manufacturing plant, "Materialliance" a portal connecting designers and makers, an Innovation Lab, C2M solutions like the recently launched "MyKnit" program, and Textile Automation offerings.

About Terrot

For over 160 years, Terrot GmbH has been a premium partner to the textile industry worldwide. With its Terrot and Pilotelli product lines, the company is present in 120 countries. The innovative circular knitting machines offer the most flexible solutions for different customer requirements. The trademark and Unique Selling Points of Terrot GmbH are highly efficient, durable and particularly versatile circular knitting machines with the focus on high-quality products and services. The product range extends

from the finest single and double jersey circular knitting machines to highly developed electronic double jacquard machines. Top manufacturers and well-known brands from all over the world produce their knitted fabrics for sports, leisure and fashion industries on Terrot machines. Mattress covers, home and technical textiles, including those for the medical and automotive sectors, are also produced on Terrot circular knitting machines. A network of more than 50 qualified sales agencies guarantees the worldwide contact and professional support of customers, the service of existing machines, the supply of spare parts as well as the commissioning of new machines.

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VEOCEL™ collaborates with beauty and feminine care brands to roll out carbon neutral products in AsiaPacific

- VEOCEL™ continues to usher the industry towards carbon neutrality by encouraging brands and value chain partners to switch from harmful raw materials to responsible alternatives to achieve carbon emission goals
- Personal care products produced using carbon neutral1 VEOCEL™ Lyocell fibers have been launched by BRIDGE 24/7 and Yejimiin for the first time in facial sheet masks and sanitary napkins across Asia Pacific

VEOCEL™, the flagship specialty nonwovens brand of Lenzing Group, has reached new partnership milestones with leading beauty and feminine care brands in the Asia-Pacific region, including Taiwanese skincare brand BRIDGE 24/7, Korean feminine care brand Yejimiin, and aglobal healthcare and beauty retailer, to launch responsible personal care products made of carbon neutral1 VEOCEL™ Lyocell fibers. The extended partnerships highlight VEOCEL™'s commitment in driving the industry-wide shift from using fossil-fuel based materials to planet-friendly raw materials, reducing the overall carbon footprint of the nonwoven industry value chain.

Through a recent partnership with Korean feminine care brand Yejimiin, which introduced feminine care top sheets made of carbon neutral VEOCEL™ Lyocell fibers, VEOCEL™ demonstrated the versatility of the fiber, which can be used across beauty, skincare, and hygiene care products.

"In recent years, Korean consumers have become more proactive in choosing brands which are socially responsible. They are not only interested in what the material of the product they purchased is made of, but also how the product is produced. Riding on this trend, our collaboration with VEOCEL™ to launch feminine care products made of carbon neutral VEOCEL™ fibers will encourage consumers to look out for planet-friendly alternatives and join us to protect the environment," said Daisy Lee Koeun, Marketing Team Leader, Yejimiin.

"We are proud to work with leading personal care brands to address the growing consumer demand for high-quality, functional, and responsible products," said Steven Tsai, Senior Regional Commercial Director for Nonwovens Asia, Lenzing. "Our partnerships with BRIDGE 24/7, Yejimiin, and healthcare and beauty retailers represent not only our unwavering commitment to empower partners in the region to achieve their carbon emission goals, but also demonstrate howVEOCEL™ fibers, which are gentle on skin and certified as clean and safe, are the trusted ingredients that support the sustainable evolution of personal care products."

Versatile VEOCEL™ fibers address growing industry needfor planet-friendly alternatives

VEOCEL™ has expanded its co-branding portfolio through the collaboration with Taiwanese skincare brand BRIDGE 24/7 to introduce the first-in-Taiwan market facial sheet mask using carbon neutralVEOCEL™ fibers.

"Our partnership with VEOCEL™ enables us to differentiate ourselves from other industry players with high-quality certified carbon neutral fibers," said Wallace Liu, CEO, BRIDGE 24/7. "As we advance into an ageing society, we believe the demand for personal care products such as invisible and thin adult diapers and sanitary pads that are soft on the skin will continue to grow. Being a brand that cares

for consumers' personal needs, it is essential for us to join hands with VEOCEL™ to recognize the importance of sustainability in everyday products and raise awareness of consumers or retailers around environmentally friendly options in the market."

In addition, the VEOCEL™ brand has also teamed up with a global healthcare and beauty retailer to launch the latest facial sheet mask product using 100% carbon neutral VEOCEL™ branded lyocell fibers.

Advancing solutions to drive carbon reductions inthe nonwoven industry remainsa priority in 2024

VEOCEL™ continues to usher the industry towards carbon reductions by encouraging companies to switch from harmful raw materials to responsible alternatives.

"Adhering to VEOCEL™'s commitment as a 'responsible care brand', we will continue to further reduce the environmental and climate impact of our fibers, providing brands and consumers with solutions for responsible product options. We will also walk hand-in-hand with our partners on their journey in pursuit of a carbon neutral industry value chain," added Steven.

VEOCEL™ believes low-carbon and environmentally responsible products are the future of the nonwoven industry, adhering to Lenzing'sscience-based targets commitment to limit global warming. As a part of the journey towards net zero, VEOCEL™ offers carbon neutral lyocell fibers produced with reduced carbon emissions, while unabated carbon emissions are offset by supporting climate projects (such as reforestation) from the Climate Partner portfolio, thus making a meaningful contribution to climate action.

About VEOCEL™

VEOCEL™ is Lenzing Group's flagship specialty nonwovens brand. Derived from renewable raw material wood, VEOCEL™ provides natural care every day, and is committed to driving industry standards around sustainability and comfort in the nonwovens sector.

The VEOCEL™ product portfolio features VEOCEL™ Lyocell fibers and VEOCEL™ Viscose fibers that are tailored for eco-friendly lifestyles and help to maintain environmental balance by being fully integrated into nature's cycle. All wood-based VEOCEL™ branded fibers are clean and safe, biodegradable and compostable and manufactured in an environmentally responsible production process. They are derived from responsible wood sources coming from sustainably managed forests, following the stringent guidelines of the Lenzing Wood and Pulp Policy. Carbon neutral VEOCEL™ Lyocell and Viscose fibers have also been introduced by Lenzing as a solution for nonwovens industry partners and brands to reduce climate impact through the use of fibers with a net-zero carbon footprint.

The VEOCEL™ brand is categorized into four branded offerings including VEOCEL™ Beauty, VEOCEL™ Body, VEOCEL™ Intimate and VEOCEL™ Surface and its fibers are used in baby care, beauty and body care, intimate care, and surface cleaning products. VEOCEL™ fibers are biodegradable in soil, fresh water, and marine conditions and compostable in home & industrial conditions, enabling them to break down safely into raw materials and fully revert into nature.

To find out more about Lenzing's initiatives on sustainability, please visit: https://www.lenzing.com/sustainability

About the Lenzing Group

The Lenzing Group stands for ecologically responsible production of specialty fibers made from the renewable raw material wood. As an innovation leader, Lenzing is a partner of global textile and nonwoven manufacturers and drives many new technological developments.

The Lenzing Group's high-quality fibers form the basis for a variety of textile applications ranging from elegant ladies clothing to versatile denims and high-performance sports clothing. Due to their consistent high quality, their biodegradability and compostability Lenzing fibers are also highly suitable for hygiene products and agricultural applications.

The business model of the Lenzing Group goes far beyond that of a traditional 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 the efficient utilization and processing of all raw materials and offers solutions to help redirect the textile sector towards a closed-loop economy. In order to reduce the speed of global warming and to accomplish the targets of the Paris Climate Agreement and the "Green Deal" of the EU Commission, Lenzing has a clear vision: namely to make a zero-carbon future come true.

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Revolutionising Global Textile Partnerships: India's Sustainable Pathway to ESG Excellence

The textile industry, historically associated with significant environmental social and governance (ESG) impact, has undergone a paradigm shift. The specific timing of the need for ESG in the Indian textile industry can be traced back to the early 2000s when global attention began focusing more on sustainable and responsible business practices. However, the momentum gained considerably in the past decade as awareness about climate change, environmental degradation, and social issues hassignificantly increased worldwide.

It is a matter of pride how India's textile sector, which is steeped in tradition and innovation, has responded to this transformation by adopting and introducing various initiatives that address the need of the hour. Today, where ESG goals are at the forefront of business strategies across the world, international textile buyers are increasingly recognizing the importance of sustainable sourcing practices. India, renowned for its rich textile heritage, has emerged as a pivotal hub for global buyers seeking to fulfil their ESG commitments while engaging in mutually beneficial partnerships.

Improved Measures & Practices:

Measures have been taken by the Indian textile players and the Indian government to actively promote these practices across the value chain. Sustainable farming practices, regenerative farming, reducing the use of chemicals, promoting soil health, use of recycled fabrics, conservation os water through recycling, and investing in renewable energy sources, energy-efficient technologies and machinery to achieve the desired outcomes, are contributing on a massive scale towards meeting the ESG goals of Indian companies and the government.

The use of eco-friendly dyes and chemicals has started gaining a lot of prominence in the Indian textile industry which align with the Green Chemistry Practices. Indian textile manufacturers have invested in innovative technologies and processes aimed at minimizing the industry's ecological footprint. By embracing renewable energy sources and implementing efficient waste management systems, these manufacturers not only cater to buyer demands, but also contribute positively to the environment.

Social Responsibility and Ethical Practices

Indian textile manufacturers and stakeholders across the value chain have significantly improved the sustainable livelihood and earnings of the labour and advanced their working conditions while also emphasising their skill development.

This makes it imperative for international buyers who source from India to benefit from partnerships that prioritize fair wages, safe working conditions, and community welfare programs. The implementation of labour standards aligned with international norms, coupled with initiatives supporting local communities' underscores India's commitment to social sustainability. By boosting inclusive growth and empowering artisans and workers, the industry contributes to the socioeconomic development of the regions involved.

Transparency and Governance

India's textile sector has made strides in enhancing transparency by adopting traceability tools and certifications that provide buyers with visibility into the entire supply chain. The Indian government has also introduced various certifications like GOTS - Global Organic Textile Standard which is an official indication of the textile standards.

Furthermore, adherence to ethical business practices and compliance with international standards ensures good governance with international partnerships.

Government Initiatives:

The Government of India has introduced several initiatives and policies aimed at promoting ESG which brings the practices within the textile industry. Some notable initiatives include the Sustainable Apparel Coalition (SAC), Technology Upgradation Fund Scheme (TUFS), SAMARTH Scheme, National Clean Energy Fund (NCEF), Amended Technology Upgradation Fund Scheme (ATUFS), Zero Liquid Discharge (ZLD) Norms, National Policy on Textiles, Skill Development Initiatives and several others.

Additionally, there's a growing trend among consumers towards eco-friendly and sustainable products, which is pushing the industry to adopt more responsible practices.

These initiatives signify the nation's commitment to promoting sustainable practices, enhancing environmental stewardship, improving social conditions, and promoting good governance within the Indian textile industry. They aim to balance economic growth with environmental and social responsibility, driving the industry towards a more sustainable future.

Challenges and Opportunities

Despite commendable progress, challenges persist. The need for continual investment in sustainable technologies, addressing water scarcity issues, and ensuring widespread adoption of ethical practices across the industry remains crucial. However, these challenges also present opportunities for innovation, investment, and the evolution of sustainable practices in the Indian textile sector. These initiatives introduced and implemented across the textile sector of India demonstrate the nation's commitment to reducing environmental impact.

As ESG considerations continue to shape business decisions, the ongoing collaboration between international textile buyers and India's textile sector serves as a beacon of hope, illustrating the potential for industries to thrive while remaining environmentally conscious and socially responsible. The convergence of international buyers' ESG objectives with India's sustainable initiatives has fostered collaborative partnerships that transcend traditional buyer-supplier relationships.

Bridging the Gap with Bharat Tex 2024

As the Indian textile sector weaves sustainability into its fabric, Bharat Tex 2024 stands as a beacon for progressive dialogue facilitating crucial discussions and transformative collaborations. With dedicated pavilions on Sustainability and Recycling, the mega textile event will also host knowledge sessions and discussions led by industry experts. With exhibitors showcasing sustainable textile products, the event will serve as the gateway for international textile buyers seeking to forge meaningful alliances with India's textile sector.

The event also has dedicated knowledge sessions for high-level deliberations between on stakeholders including Government, Private Enterprises and various institutions on ESG, Sustainability, Textiles Waste Management among other relevant areas to set goals for Global Textiles industry, share best practices and facilitate partnerships on Sustainable solutions.

By bridging the gap between ESG commitments and industry initiatives, Bharat Tex 2024 embodies the spirit of collaborative progress, ensuring a future where commerce thrives harmoniously with environmental consciousness and social responsibility. ■

13th Intex India

7-8-9 December, 2023
Hall 1C, IICC, Dwarka
New Delhi, India

Intex India 2023 exhibition concluded successfully with leading Indian and overseas buyers who attended the show to explore new products and services for their domestic and export business, gather market intelligence about the latest innovations, trends and product diversification across the supply-chain and value-chain and connected with participating companies to explore textile sourcing opportunities across India and beyond.

The show was inaugurated by Ms. Shubhra, Trade Advisor, Ministry of Textiles, Government of India, in the presence of senior representatives from the Vietnam Trade Office in New Delhi, Confederation of Indian Textiles Industry (CITI), Okhla Garment & Textiles Cluster (OGTC), Udyog Vihar Chamber of Commerce & Industry, Karnataka Innerwear Association and others.

Intex India saw the participation of leading manufacturers and suppliers from India and overseas who showcased a wide variety of textiles, trims & clothing accessories, dyes & chemicals, certification and business consulting services as well as trade and investment opportunities in Africa. Some of the leading buyers (apparel manufacturers, brands and retailers, buying offices, importers, etc.) who attended the show from across major cities of India were Calvin Klein, Ralph Lauren, Benetton Sourcing, Pepe Jeans, Pentland USA, Arvind Fashion & Lifestyle, Reliance Brands Limited, Aditya Birla Fashion & Retail, Numero Uno, VIP Clothing, Bhartiya International, Celestial Lifestyle LLP, Celebrity Fashions, Go Go International and Newtimes Group to name a few. Apart from these, Intex hosted overseas buyers from 10+ countries who had successful meetings with the participants during the 3 days of the exhibition.

This year, two special forums comprising Intex Textile Conclave (ITC) and Interactive Business Forum (IBF) were organised alongside the exhibition. These platforms enabled business leaders and domain experts to present their insights to industry stakeholders, exchange ideas, unlock business opportunities and pave the way for future growth. The Intex Textile Conclave (ITC) under the theme Fibres of Fashion: Reimagining the future of Textiles was co-organised with DFU-FashionatingWorld as knowledge partner of the forum. The conclave brought in eminent speakers who shared their perspectives on the Indian and global outlook for textiles and apparel through panel discussions and presentations on the topics 'Mapping India's Fiber Market on a Global Canvas', 'Fibres of the Future' and 'Fabrics of Fashion & Functionality'. The Interactive Business Forum

Seminar Series witnessed trends workshop by the world's leading trends forecasting agencies – WGSN from UK and Fashion Snoops USA. IBF also witnessed a session on the role of artificial intelligence in textiles and apparel. Both forums were well attended by participants, trade buyers, delegates and overseas visitors.

Intex India is endorsed by leading industry trade bodies and business chambers such as Confederation of Indian Textiles Industry (CITI), The Textile Association (India) Delhi Unit, Tirupur Exporters Association (TEA), Noida Apparel & Textile Cluster (NAEC), Garment Exporters Association of Rajasthan (GEAR), Okhla Garment & Textile Cluster (OGTC), Delhi Hindustani Mercantile Association (DHMA), Gurgaon Chamber of Commerce & Industry (GCCI), NCR Chamber of Commerce & Industry and many more.

We are proud to conclude that all the 3 editions of Intex which were held this year in Bangladesh, Sri Lanka and India saw participation of more than 400 exhibitors from 12+ countries who participated in our exhibitions to promote their latest collections of textiles, explore new business and market opportunities in South Asia, the 2nd largest market after China and connected successfully with more than 10,540 domestic and international trade buyers from 20+ countries.

The next editions of Intex – The Premier International Textile Sourcing Show of South Asia will be organised in Dhaka, Bangladesh from 30th May to 1st June 2024 and in Colombo, Sri Lanka from 7th to 9th August 2024.

Follow us on Facebook / LinkedIn / Instagram for updated information of the upcoming editions of Intex or login on to our website – www.intexsouthasia.com

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ITMA ASIA + CITME concluded successfully with visitorship of 100,000

ITMA ASIA + CITME concluded successfully on 23 November 2023 at the National Exhibition and Convention Centre (NECC) in Shanghai. The five-day combined exhibition featured an exciting showcase of textile machinery from the entire manufacturing value chain. It attracted the strong participation of textile professionals eager to explore the latest automation and sustainable technologies.

The eighth combined exhibition welcomed visitorship of 100,000 from 105 countries and regions. Local Chinese visitors from 31 provinces and cities formed the largest group of visitors, followed by India, Taiwan, South Korea, Bangladesh and Iran.

Visitors from outside mainland China accounted for more than 13 per cent of the visitors. There was a significantly higher number of overseas delegations, including more than a dozen large buyer groups, compared with previous editions.

Exhibitors at ITMA ASIA + CITME 2022 were impressed by the turnout. Mr Georg Stausberg, CEO of the Polymer Processing Solutions Division and Chief Sustainability Officer of the Oerlikon Group, said: "We can look back on a successful show where we were able to meet many of our customers, not only from China, but also from Pakistan, India and Indonesia."

More than 1,500 exhibitors from 23 countries and regions took part in the exhibition which grossed over 160,000 square metres. Many local and international brand names staged product launches which were well received by visitors.

Mr Fritz Legler, Textile Marketing Officer of Stäubli, commented: "We enjoyed a tremendous level of high-quality customer traffic at our booth. Our automation technology in warp preparation, the latest generation of shedding solutions for high-speed weaving machines, as well as carpet weaving systems have found the acclamation of our Chinese and international customers."

Mr Cédric Schlicher, Director, Fil Control, also acknowledged: "What an exciting moment for us to be back in Shanghai for ITMA Asia! The show was beyond our expectations and it allowed us to meet our partners in China and to build relationships with new ones."

Show owners, CEMATEX, together with its Chinese partners – the Sub-Council of Textile Industry, CCPIT (CCPIT-Tex), China Textile Machinery Association (CTMA) and China International Exhibition Centre Group Corporation (CIEC) were elated at the results of the combined exhibition.

According to the show owners, the high-quality showcase by two established ITMA and CITME textile machinery exhibition brands have contributed to the success. The extensive outreach programmes to more than 300 business associations and industrial clusters, media partnerships, roadshows and other promotional programmes have also yielded positive results.

The next ITMA ASIA + CITME exhibition will be held from 14 to 18 October 2024 at the NECC Shanghai. It is organised by Beijing Textile Machinery International Exhibition Co., Ltd. and co-organised by ITMA Services.

For more information, please visit www.itmaasia.com or www.citme.com.cn.

Issued by: CEMATEX, CCPIT-Tex, CTMA & CIEC

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TEXTILE EVENTS

Innovative Transformation of Fibre to Yarn

Luxury on the Body and Underfoot Too

As was amply illustrated at ITMA 2023 this June, tradition and innovation go hand in hand for members of UCMTF, the French Textile Machinery Manufacturers, including NSC Fibre to Yarn, Superba and Spoolex.

A series of acquisitions over the past 20 years has consolidated the position of NSC Fibre to Yarn as a leader in textile lines for luxury long-staple fibres, as well as wool and technical fibres. Superba is a specialist in the development of machinery for the heat-setting of carpet yarns – whether from natural fibres like wool or synthetics.

Spoolex is now the umbrella organisation for a number of long-established French specialists in flexible slitting, rewinding and spooling solutions (Calemard), ultrasonic welding and cutting (Decoup+), and low inertia rolls for industrial applications (Roll Concept).

Read on to find out how companies are integrating automation and digital control in their production line in adaptation of Industry 4.0.

Discover more fibre-to-yarn technologies and solutions on ITMAconnect. Explore >> Exhibitor List >> Companies, and search using the keyword "Fibre".

Now Trending On-demand

Log in to your ITMAconnect account to access a wide range of on-demand content.

- Making a Change in Climate Impact at Scale With A New Generation of Biobased and Resource Efficient Fibre by Ida Alnemo, TreeToTextile AB.
- Next Generation of Waterproof Breathable Fabrics by Mario Stucki, dimpora AG.

Join the Community Now!

- Stay in the know with the latest innovations and technological advancements. Access a comprehensive repository of insights and expert knowledge.
- Engage in meaningful discussions with likeminded peers and exchange ideas via the Messaging feature.
- Source from the world's largest and most comprehensive digital listing of textile and garment technology manufacturers.

Register for an ITMAconnect visitor account at just €25 (exclude VAT). Membership is valid till 14 November 2026 regardless of when you sign up.

All ITMA 2023 visitors are automatically enrolled as subscribers. Exhibitors' staff must be assigned an ITMAconnect staff account by their company's administrator. Existing ITMAconnect subscribers can log in via www.goto.itmaconnect.com using their personal passcode. To retrieve passcode, click on "Lost Passcode" on the login panel.

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

IGMACH INDIA

1st International Garment Machinery Textile & Accessories Exhibition

21 to 24 February 2024

Helipad Exhibition Centre, Gandhinagar, Gujarat, India

ITMACH India exhibition has a proven track record of connecting machinery and technology marketers to entrepreneurs as well as supported the expansion and development of the textile industry. The upcoming show, after a span of four years, is hosted within and near to growing garment & textile markets when the industry is planning for unprecedented capacity growth backed by new Central Govt. initiatives like PLI, PM-MITRA scheme as well existing supportive state textile policies.

Both ITMAC Hand IGMATCH exhibitions are being organized simultaneously at the same venue due to which the garment and textile industries will get great benefits. Garment manufacturers, Textile manufacturers, Start-up industries and fashion designers will have a great opportunity to get to know the industry with new technology, new design fabrics. As a large number of garment manufacturers are confirm to visit this exhibition, garment machinery manufacturers, dealers, distributors, fabric manufacturers and suppliers as well as accessories industries will benefit greatly.

It is a matter of pride for us that the event grown in size backed by the successful past event as well

as improved quality of services. IGMACH India would help its exhibitors and visitors discover the market and current trends in the garment & textile industry. It lays out the opportunity to meet technical experts of the leading garment & textile machinery, technology suppliers, industry professionals and thinkers, and the finer tune of ideas and network.

The IGMACH India 2024 would be participated by 200+ exhibitors from India and overseas as well as attract over 25,000 business visitors from domestic as well as from neighbouring countries at a picturesque Exhibition Centre.

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PAMEX 2024 To Give A Glimpse Of The Future Of Print!

PAMEX is continuing with the theme of 'Convergence in Print' in edition 2024, also spanning across the innovations that make us look beyond the obvious. The exhibition is dedicating a pavilion to some of the most advanced and futuristic print technologies in the industry. These technologies are paving the way for the future of printing, offering improved efficiency, versatility, and quality.

The pavilion will display few technologies as below:

3D Printing

A revolutionary printing method that allows for the creation of three-dimensional objects by layering materials on top of each other. From architectural models to customized prosthetics, 3D printing has the potential to transform various industries.

Augmented Reality (AR) Printing

AR printing combines print with digital content, allowing for interactive and immersive experiences. This technology opens up new possibilities for marketing, education, and entertainment, as printed materials can come to life with virtual elements.

Nanographic Printing

This unique printing method uses nano-sized ink particles to achieve high-resolution prints with vivid colors and sharp details. It offers exceptional print quality, making it ideal for applications such as packaging and labels.

Flexible Electronics

They have revolutionized various sectors by offering lightweight, bendable, and low-cost electronic components.

Sustainable Printing Technologies

With an increasing focus on environmental consciousness, the print industry is embracing eco-friendly solutions and exploring sustainable printing options, such as water-based inks, energy-efficient printers, and eco-friendly substrates.

Advancements in Digital Printing

Faster printing speeds, improved color accuracy and enhanced variability! From personalized marketing materials to short-run packaging, digital printing offers flexibility and efficiency, allowing businesses to meet the demands of today's fast-paced market.

Pamex 2024 will highlight the potential of these technologies in enhancing printing processes and creating new opportunities for the industry.

Attendees will get hands-on experience of various applications including flexible electronics in print, flexible displays, sensors, RFID tags, and wearable electronics.

Besides the exhibits, the pavilion will also have a presentation and meeting area where talks and discussions around how these technologies can be incorporated into packaging, signage, labels & other printed materials to enhance functionality, interactivity and aesthetics will happen.

PAMEX 2024, organised by All India Federation of Master Printers in association with Print-Packaging.com Private Limited, is scheduled to happen from 6-9 Feb at Bombay Exhibition Centre, Mumbai and the Innovation Pavilion will be situated in Hall 2 of the venue.

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Website: www.pamex.in ■

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- Rewinding Machine (Precision / Drum)
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DTG

The 18th Dhaka Int'l
Textile & Garment
Machinery Exhibition

Innovative Threads: Woven Towards Success

Concurrent with:

DitaTex

DYECHEM Dhaka

1 - 4
February
2024

International Convention City Bashundhara (ICCB)
Dhaka, Bangladesh

www.chanchao.com.tw/DTG

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Bangladesh Textile Mills Association

Yorkers Trade & Marketing Service Co., Ltd.

DTGexpo

DTG The 17th Dhaka Int'l Textile & Garment Machinery Exhibition

DTG Textile & Garment Machinery Exhibition

SOME PARTICIPANTS AND THEIR EXHIBITS

Oerlikon

Oerlikon Barmag has developed new SW & CW end-of-life replacement concept

Full service support for old CW and SW winders will end next year. Oerlikon Barmag Customer Service had already informed its customers about this in 2021. "At the end of a product life cycle, spare parts supply, software support, troubleshooting and other services are becoming increasingly difficult to provide. This leads to increased downtimes and thus to decreasing profitability of the system. It is not always possible or sensible to invest in a completely new system," says Stefan Heesen, Head of Customer Service Products.

Switching to WINGS technology, which has been established on the market for years, is not always easy for operators of spinning systems with CW and SW winders. In addition to building restrictions, processes certified by the end customer are often a stumbling block for yarn producers. Oerlikon Barmag has developed the new SW & CW end-of-life replacement concept for these system operators. Like the ACW-WINGS modernization package presented a few years ago, the pragmatic concept focuses on the utilization of state-of-the-art drafting and winder technology without significant investment costs.

Full service support for old CW and SW winders ends in 2024. The new end-of-life replacement concept offers a pragmatic solution to make these systems fit for the challenges of the future.

Higher efficiency, better yarn quality and operational reliability at manageable costs

The concept not only provides for conversion to the highly efficient WINGS drawing fields. ACWW winders, mostly in 6- and 8-fold versions, with Siemens electrics are used as replacements. This solves the supply problems with spare parts instantly, fits into the existing building complexes and is compatible with existing automation systems. Certified POY/HOY processes in the 2500-6500 m/min range can also continue to be operated. The availability of the Siemens control components still used in series production guarantees operators worldwide long-term security. The equipment can also be repaired in the global Oerlikon Service Centers. The virtual connection of existing and new machines to the new IT environments, such as Atmos.io or Doffer & Plant Operation systems, is possible with this exchange package.

The ACW-WINGS modification solution has been implemented with great success at customers in China and India since 2019 and exceeded all expectations with a return on investment (ROI) in just 4 to 5 months.

The list of benefits is long: extremely low-friction premium ceramic components in the yarn path ensure above-average yarn evenness. This in turn is particularly noticeable in improved dyeing properties. The ergonomic advantages typical for WINGS make the string-up process easier for the operator. The enclosed design of the encapsulated tangle units with their air suction and extraction units makes not only the process but also the ambient air significantly cleaner.

"With our new replacement package, we offer our customers operational reliability and spare parts availability at a manageable investment cost. We are confident that the end-of-life replacement concept will be just as successful as the ACW-WINGS concept," says Stefan Heesen confidently. The ACWWINGS modification solution has been running with great success at customers in China and India since 2019 and exceeded all expectations with a return on investment (ROI) in just 4 to 5 months. This was achieved primarily through 50%

personnel savings due to the elimination of the separate drawing field level and energy savings of more than 40% thanks to more efficient tangle units and manual injectors. Significantly reduced string-up times lead to lower air consumption and reduced operating pressure, thus reducing the compressor capacity required. An improved yarn path with fewer contact points has reduced the number of yarn breaks and increased the full package rate by 10%.

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.

The division is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 13 000 employees and generated sales of CHF 2.9 billion in 2022.

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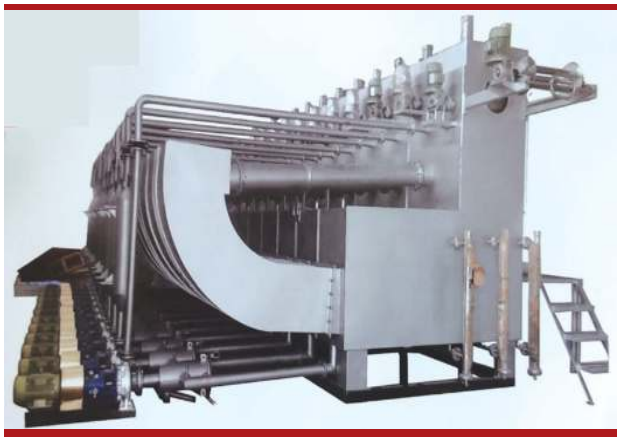
Krsna Group

The facts about Krsna Groups begining

Krsna Group Textile Machinery Manufacturing is First Generation Family Enterprises made a humble beginning in Mumbai Apartment, by Technocrat Turned Entrepreneur VJTT Mumbai Graduate Mr. M.D. Shah (Fellow Institute Manchester UK) Krsna Engineering Works move in 1990 to present location of 2000 square yard plot 45, GIDC Naroda, and Ahmedabad India. Well response from Market for Krsna younger brother P.D. Shah joined at initial stage followed with young Techno Savy Family Members helped Krsna Expaned its activities & form new venture under leadership of Mr. Chandresh Shah (Managing Director President of the Indian Textile Accessories & Machinery Manufacture Association) Business & Law Graduate with help of uncle Mr. H.D. Shah Electrical Engineer, Krsna Engimech Pvt. Ltd. B4, GIDC, Phase 2, Naroda, Ahmedabad-328330.



Latest innovative products of Krsna Group

- Krsna an innovator of Dyeing Technology introduced 1st time in India soft/over flow dyeing machines.
- 5 to 7 soft flow dyeing machines fully automatic month Krsna Krantz soft flow dyeing machine.
- Krsna continuous open width washing ranges for knit fabric & woven.
- Krsna open cum rope washing range.
- Krsflow continuous rope washing & bleaching range 1st time in India.
- Tumble dryers for woven & knit terry towel.
- Merceriser Mini & Regular.

SOME PARTICIPANTS AND THEIR EXHIBITS

Krsna Group concept to reality

- Krsna with its zeal to protect environment always tried to design machineries to save water chemical energy.
- Krsna range of soft-flow & other textile processing machineries fundamental are accuracy in manufacturing using top quality materials. Krsna ranges of machines are well known for reliability, robust construction & ease in operation.
- Krsna in operation.
- Krsna with reinvent obsession could.
- Introduce first time in India
- Krsna soft-flow dyeing
- Krsflow multipurpose washing cum bleaching CBR
- Krsna open width tensionless vibro drum washer for bio wash & after print wash of knit fabric.

What Adopted at Krsna

Lean manufacturing completeness system & 5s +

- Safety rules
- Sort
- Straightens
- Shine
- Standardisation

This system adoption helped in

- Mfg. best performing machines
- Consistency in quality
- Repeat performance with excellent quality
- Produce user friendly machines
- Get 90% repeate order

Today Krsna is name to reckon with Krsna Operating all over India & 23 countries worldwide.

Krsna introduced softflow dyeing machine with German Technology in India

First Indian manufacturer to offer atmospheric soft flow and high temperature soft flow in various capacity 5 kg to 2000 kg.

First Indian manufacturer to offer sample soft flow atmospheric & high temperature 5 kg to 50 kg. First Indian manufacturer of double nozzle long tube (twin nozzle) combination of soft flow & jet long tube soft flow.

First Indian manufacturer of Krsflow continuous rope washing/bleaching range.

This noven machine developed by the company is an import substitute & help to same water, energy, as well as dyes and chemicals.

First manufacturer of soft flow dyeing machine from India displayed at international exhibition itme '99 Paris.

First manufacture to export soft flow to MEXICO in South America in 1998.

First universal soft flow machine to dye all types of fabrics. Silk / Polyester / Cotton / Viscose / Lycra / Terry Towel / Knits / Woven / Loosely Woven Fabric & Blend.

First Indian manufacturer of DOUBLE Nozzle Long tube (TWIN Nozzle). The combination of soft flow & jet long tube soft flow.

First and the only manufacturer to offer long tube soft flow designed to process lighter fabric of 20 meters/kg. & heavier fabric 2 meters/kg. variety fabric.

More than 2500 machine are in operation in India & 23 countries worldwide.

Krsna soft flow dyeing machines are eco-friendly & greater market acceptance by all over India by the user industries.

Special Features

Krsna group's tradition of solid design excellent manufacturing tradition help us to build this new concept of continuous washing/bleaching of all kind of textile in rope form like woven/terry towel/knits — hosiery/loosely woven (woolly georgette chiffon).

Krsflow with unique features help to save water/save chemical/save energy & help to protect environment.

Krsflow continuous rope washing & bleaching range krsna pioneer manufacturer of soft flow in India, with constant synergetic relation customer helped us to introduce the unique design, special purpose continuous rope bleaching range.

Krsflow continuous rope bleaching/scouring washing range.

Krsflow continuous washing range encompasses all the principles of efficient washing. This range has an intelligent combination multi tube (few) soft flows running in tandem.

The fabric is being process in rope form with use of highly acclaimed krsflow (over flow) system the 8 to 16 soft flows process the fabric together to accelerate the process of after print fabric washing or scouting bleaching.

Actual working of krsflow processing on krsflow fabric enters 1st train (soft flow) through squeezer enters soft over flow section & being gently carried at rear side through transport tube on return path fabric is being squeezed in squeezer of next train (soft flow tube) & enters soft over flow section of next train & then gently pushes to rear side likewise cycle continue.

Fabric enters 1st soft flow section then enters second section of soft flow then continue to exit in last soft flow at working speed of 20 to 30 meters/minutes depends on quality of fabric. Water consumption: 1 kg of fabric needs 10 to 15 liter from gray to bleach.

Sample Soft Flow for all types of Fabrics

Technical Specification

- Robust Reliable Construction of SS 316 L material. High volume low pressure pump (with AC variable inverter drive).
- Variable driven inside reel with silicon strip to avoid abrasion mark.
- Liquor ration 1:4 with 100% moist fabric.
- Teflon sheet at rear side for entangle free fabric movement.

- Water flow meter (Optional).
- Fully Auto Operation (Optional).
- Seam Detector (Optional).

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Uster Technologies AG

Know-how for a better world with recycled textiles

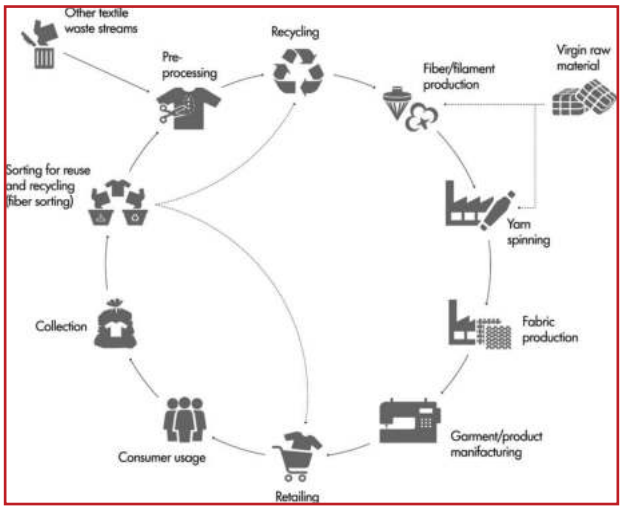
Uster Technologies issues practical guidance in its new Sustainability Bulletin

Definitions, standards and specific industry knowledge…Uster Technologies covers the whole story of recycled textile materials in its application report Sustainability Bulletin No. 1. The publication is part of Uster's commitment to support the use of recycled materials along the entire textile value chain.

Many consumers today already expect recycled materials to be used in the clothing and home textiles they purchase– and this is clearly pushing innovation throughout the industry. However, there is a degree of uncertainty about what this trend means for yarn producers, both economically and technically. The first Uster Sustainability Bulletin outlines the challenges and presents the solutions.

Starting positions and results

Upstream in textile processing, spinnersare often asked to produce yarns with recycled materials, with comparable quality to those from new fiber. "The use of mechanically recycled fibers in spinning has specific quality considerations. Such fibers have a higher short-fiber and nep content and may often be colored, particularly if post-consumer material is used," says Gabriela Peters, Head of Product Management Laboratory Systems at Uster Technologies and one of the bulletin's authors. It is also true that recycled yarns have limitations in terms of yarn fineness. But thermo-mechanically and chemically recycled fibers and filaments are thought to present fewer processing challenges, as they are expected to have similar processing behavior to newfibers and filaments from synthetic and viscose materials.



The Sustainability Bulletin is focused on the more problematic recycled raw material. For example, it deals with the potential difficulties in the various process steps in spinning. The aim is to bring clarity and understanding about mechanically recycled materials and provide ideas on how they can be processed.

Studies have shown that yarns and fabrics produced from recycled fibers may be better for applications where the strength of yarns and fabric is less critical, but where control of unevenness, imperfections, and handle properties is required. Consequently, recycled fibers are most suitable for manufacturing casual clothes such as T-shirts, sweatshirts, and sleepwear. In China, tons of denim jeans trousers are already made of mechanically recycled fibers.

The guardian of quality

Uster Technologies sees its role as knowledge provider, setting definitions and standards, to

accelerate this ongoing industry transformation. As a long-term trusted supplier of quality control systems to the textile manufacturing industry, Uster assists the industry by evaluating test results. This helps to guide spinners on the current possibilities for dealing with recycled material in its many forms.

The Uster Statistics benchmarks will be helpful in the requirement to measure, control, and improve the quality. The new edition, launched at ITMA 2023, includes for the first time a section for recycled yarn. The Uster Statistics 2023 edition also features an extended range of fiber data, supporting sustainability goals. It's a fact that an ideal fiber mix – with or without recycled content – must also meet quality requirements for minimal waste.

Uster understands its function as a kind of neutral arbiter, reporting what quality can be expected when processing different recycled materials. Uster know-how on using recycled raw material is collected in the Sustainability Bulletin No. 1 and ready to download free of charge atwww.uster.com/sustainabilitybulletin.

Cooperation for a sustainable future

Using recycled materials effectively and efficiently will be a key to success in future years. To achieve acceptable results and profitability, all sections of the textile chain will need to cooperate and learn from each other, to avoid collective failure."At Uster Technologies, we firmly believe it's a great opportunity for textile manufacturers to lead this momentous industry transformation, as recycled fibers are the raw material of a sustainable future to be processed into new products," says Peters.

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Rabatex Industries

A brief profile of Rabatex Industries: A known name in the global fabric industry

RABATEX INDUSTRIES – INDIA, since its establishment in 1962, has played an indispensable role in the global fabric industry. With over six decades of experience, the company has consistently introduced new technological advancements comparable to global standards in warp preparation machinery, fabric sampling machines, and material handling and storage equipment. By doing so, Rabatex Industries has successfully filled the void that once existed in the Indian fabric industry, eliminating the need for advanced technological import substitutes.

Fabric Sampling Weaving Machine (Small Width)

Sample Weaving Machine technical specifications : Working Width - 20" (50CM / 500mm) / Maximum Fabric Sampling length - 30 Meter / No of Weft Selector – 8 / No. of Shaft - 20 / Auto Weft Selector / Close Loop Control for Speed and Tension / Fully PLC Controlled

"Rabatex experts engage with technical professionals in the global textile industry to understand their specific needs in terms of investment value and product output expectations. With patience and innovative thinking, the Rabatex team carefully analyzes future demand, customer expectations, and global opportunities within the Indian Textile Fabric Manufacturing Industry. We strive to explore the highest opportunities for the textile industry to showcase its capabilities, creativity, and value addition.

SOME PARTICIPANTS AND THEIR EXHIBITS

As pioneers in manufacturing state-of-the-art Warp Preparatory Machinery, Fabric Sampling Solutions, Material Handling and Storage Equipment, and ASRS (Vertical Lift Module), Rabatex holds a significant market share in India and a global presence in more than 36 countries. Key markets experiencing substantial growth for Rabatex include the USA, Canada, Turkey, Russia, South Africa, Indonesia, Bangladesh, Ukraine, and more.

At Rabatex, customer satisfaction is at the heart of our business, and our products and services are crafted around this fundamental principle. Today, as we strive to remain at the forefront of technology, our commitment is to consistently deliver quality to our customers. Our primary focus is on maintaining a leadership position in the market. With this strategic emphasis, Rabatex aims to evolve into a global player with a greater market presence in the years ahead, capturing a substantial share of the global market.

Single End Sample Warper (Small Width)

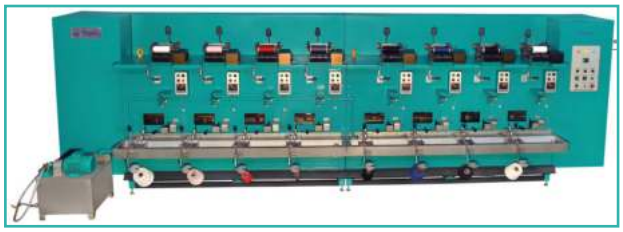
Small width sample warper technical specifications : Working Width - 20" (50CM / 500mm) / Maximum Fabric Sampling length - 30 Meter / No of Weft Selector – 8 / Leasing Operation - Automatic / Thread Selection - Automatic / Pattern Entry - Infinite / Fully PLC Controlled

RABATEX has recently introduced a comprehensive array of Fabric Sampling Solutions, including the Small Width Fabric Weaving Machine, Small Width Single End Warper, Cone-to-Cone Sizing, and an Advanced Sample Warper designed for short-length preparation, each boasting unique features. Notably, the new launch incorporates the added advantages and distinctive features characteristic of every RABATEX brand product. With a tradition spanning over six decades, the company is driven by a commitment to continually innovate, ensuring they bring something novel to their patrons with each release.

Rabatex is also directing its attention towards the technical textile sector, widely regarded as the fastest-growing in the industry. These offerings have been meticulously developed to meet the specified high-performance requirements of specific end-uses, distinct from the conventional applications in clothing and furnishings.

Rabatex's Polybeamer and Unwinding Creel excel in meeting the rigorous standards of various sectors within the textile industry. The Beamer, in conjunction with yarn tensioners, guarantees consistent tension control based on yarn parameters. The yarn tension is effectively managed through a positively-driven feeding aggregate. The highly flexible creel systems cater to the processing needs of monofilament yarns, polypropylene film tapes, durable polyester/ polyamide yarns for the carpet industry, and glass-fiber yarns.

Cone to Cone Single End Sizing Machine



Single end cone to cone sizing machine technical specifications : Heating Type – Electrical / No of Spindles – 1 or 4 or 8 / Maximum Speed MPM - 250 MPM / Length Set Control – Yes / Temperature Control - Yes / Speed Control - Yes / Spindle Control - Individual

Rabatex's Material Handling Equipment proves invaluable for textile mills, eliminating manpower costs, saving time, and significantly enhancing manufacturing efficiency while adhering to the highest safety standards. We specialize in designing and customizing equipment tailored to the weaving shed layout, ensuring hassle-free utilization and ease of operation. Currently, we command a 60% market share in the Indian industry, boasting a remarkable 90% repeat order ratio.

Adapting to the evolving technological landscape, we have successfully embraced innovation. Consequently, we now lead the market with our battery-operated equipment, witnessing a gradual shift from hydraulic to automated electric systems. This transition not only reduces the substantial cost of manpower but also provides mills with tremendous operational benefits, effectively doubling their efficiency.

Rabatex Industries stands as the largest supplier of weaving preparation products manufactured in India. Currently, there are approximately 3,200 Sectional Warpers and Fabric Sampling Machines, along with about 5,600 units of Material Handling and Storage Equipment, operational worldwide. For further details about our products, please visit www.rabatex.com.

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http://www.rabatex.com

Benninger AG

Modern solutions for efficiency and sustainability

With Latest wet processing technology Benninger strengthening its services and support for customers

Benninger is continuing to expand its world-leading offer to the textile wet processing sector, with recent innovations in fabric dyeing and singeing technology – as well as strengthening its services and support for customers in India and beyond.

Benninger specializes in machinery and solutions for both continuous and discontinuous wet finishing of woven, knitted and technical textiles. Its heritage of 160 years is the foundation for ongoing progress, with today's systems embracing sustainable production towards zero environmental impact for its global customer base.

Benninger seminar in Tirupur, India on December 2nd, 2023

Guests and Benninger staff at the seminar in Tirupur, India on December 2nd, 2023

Benninger team with local members and members based at the headquarters in Switzerland at the seminar in Ludhiana, India on December 4th, 2023

As part of its customer commitment, Benninger has further grown its service teams of technicians, electricians, technologists and local sales personnel in India. Currently, over 20 experienced and dedicated professionals are ready to assist customers on the subcontinent and in Asia. Benninger also staged customer seminars in Tirupur and Ludhiana on December 2 and 4. "We wanted to introduce our local team and take the opportunity to present Benninger's modern wet processing solutions that ensure decarbonization while boosting the customers' top line and securing their bottom-line," says Rolf Erik Schoeler, Global Head of Sales and Marketing at Benninger.

Pioneering FabricMaster

A game-changing solution in Benninger's portfolio for discontinuous dyeing is the new FabricMaster, proven in practice to be the fastest, most versatile, and economic jet dyeing machine in the industry. It producesa wide range of fabrics with unmatched low water consumption levels. Furthermore, it ensures dramatically shorter process times and an excellent first-time-right rate. The robust and reliable system with its harmonic versatility ensures that customers can process today's and tomorrow's fabrics and blends.

Benninger's experience means it fully understands the challenges of the wet finishing industry, as reflected in its development priorities for new machinery. Key factors are minimal consumption of water, steam, chemicals and dyestuff, to ensure right-first-time results with lowest waste.

FabricMaster – fast, versatile, and economic jet dyeing machine

Specifically, the company's discontinuous dyeing technology has precise control of processes and chemical distribution (DDS, CDS, PDSD), setting new standards for shortened process times, and accuracy in maintaining the required batch sizes, weight and liquor ratio. The carbon footprint of the FabricMaster isdesigned to be the future industry benchmark for sustainability.

Foundation for uniform quality

SingeRay – the first choice to upgrade fabrics

The latest Benninger fabric singeing machine, known as the SingeRay, lays the foundation for uniform quality to produce a perfectly dyed and finished fabric. The high-performance burner ensures a flame with high energy density over

the complete width, for incomparable singeing effects. Its unique flame width setting allows finishers to work with even smaller fabric widths economically, saving energy. Thanks to the super-smart burner design, which also prevents deformation due to its 2x2 cooling system, it ensures longevity. The SingeRay is made in Germany and certified by the German Technical and Scientific Association for Gas and Water (DVGW) to the highest safety standards.

DyePad – CPB Knit

For knitted fabric processing, Benninger's Knitline solutions are installed at more than 120 mills of major producers worldwide, demonstrating great standards of performance with highest quality results in demineralization and bleaching. Recent technical enhancements have made a significant contribution to reducing operating costs for users.

Trikoflex washing compartment

Road to zero

The full range of Benninger technology includes well-established solutions for all aspects of open-width wet processing, as well as discontinuous fabric dyeing, underlining its position as a systems supplier in the forefront of the industry.

The duty of environmental responsibility in that role is one that the company fully acknowledges: "Benninger solutions always focus on resource efficiency, so textile finishing plants with Benninger machines installed can be assured of particularly low resource consumption and highest productivity," says Schoeler.

This topic of sustainability was a major theme at the recent seminars in India, where attendees were advised how to make further progress on their own road to zero.

For further information, please contact
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Precision Rubber Industries Private Limited

The Company manufactures PRECITEX brand of Aprons and Cots

Since starting its operations in 1971, PRECITEX has grown to become a Global Leader in Rubber Aprons and Cots. They have one of the largest manufacturing capacity of 90 million pieces per annum.

PRECITEX is an ISO 9001-2015 Certified Company. PRECITEX Aprons and Cots are the 1st Choice of Spinners across the Globe and are exported to more than thirty eight countries. With their strong R&D supported by well equipped Quality Assurance laboratory, PRECITEX is always evolving. They have always been ahead of times and introduced many innovative products which has earned them a very strong presence in both Domestic as well as Global market.

PRECITEX Products are designed and developed to meet the various requirements of spinning mills. These products meet different machinery manufacturers specifications for Draw Frames, Speed Frames and Ring Frame, Open-end Spinning, Worsted Spinning, Air Jet Spinning and Texturising

Machinery. Many of the Machinery Manufacturers across the Globe supply their New Machines with PRECITEX Aprons and Cots to Spinning Mills.

PRECITEX products are used by all the Textile Spinning Mills in India and are exported to countries including Bangladesh, Indonesia, Turkey, Thailand, Vietnam, Uzbekistan, Mexico, Brazil and Egypt etc. The Company has been receiving various Export Awards Government of India for outstanding export performance year on year.

The Company regularly participates in all major international exhibitions like ITMA Europe, ITMA Asia , INDIA-ITME and Regional Exhibitions in Bangladesh, Uzbekistan, Vietnam, Indonesia and Mexico. With major textile spinning activities now shifting to Asian continent where PRECITEX is having major presence, the Company is poised for recording excellent growth every year.

PRECITEX will be show-casing the following new products at their booth no 007, Hall no. 8 at DTG 2024 to be held at International Convention Centre Basundhara (ICCB), Dhaka–1st-4th February, 2024

- " SLX Series Aprons"for Super Long Frames (SLX 7711, SLX 7740), for Ring Spinning and Compact Spinning.
- AE63 Soft Cots (63 degree Shore Hardness) for Compact & Normal Spinning application for Cotton Yarn.

- Revolutionary Soft Plus Cots for Cotton Spinning which offers a Unique Cot Construction that does not allow Shore Hardness of Cot to increase throughout Cot Life thus offering consistent Yarn Quality throughout Cot Life.
- XP Series Aprons for Extended Performace.
- ET Series Aprons for Compact Application specially for Zero Traverse Compact.
- Conductive Cots for Draw Frame□XPLG70, XPLGX75, XPG83 and XPSB85
- Comber Detaching Roller Cot□XP CD 65 and CD 6080 for High Speed Combers
- Cots and Aprons for Texturizing applications
- Cots and Aprons for Air Jet Spinning

For further information, please contact
Precision Rubber Industries Pvt. Ltd.,
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Mumbai–400018 (India)
Phone: (91-22)40766444
Fax: (91-22)66605382
E-Mail: exports@precitex.com
or delhi@precitex.com
Website : www.precitex.com. ❐

Santex Rimar Group

The compacting revolution

Compas: maximum effect, minimum environmental footprint; Sperotto Rimar's revolutionary compacting technology

Sustainable compacting with Compas is the environmentally-friendly route to controlled shrinkage. Sperotto Rimar's revolutionary compacting technology brings unmatched results without adding chemicals.

Compasis an open-width compacting and finishing machine for knitted and woven fabrics, which uses a unique compacting concept. This is based on a belt with specific elasticity characteristics, which enhances the fabric compacting process.

Revolutionary and effective

The belt is set to a control level of pre-tension and the fabric contacts the belt at the point when it is at its maximum tension. When the tension is released and the belt returns to its original position, the fabric follows, so that it is compacted lengthwise.

Compas – the compacting revolution

This compacting revolution guarantees optimum compacting capability for both knitted and woven fabrics. Outstanding residual shrinkage values are achieved with all fabric types, including extremely difficult ones such as 100% viscose knitted and woven articles. Finishers are amazed by the natural stretch effect on the fabric warp achievable on 100% wool worsted fabricsand end-users appreciate the silky and smooth touch which has become a recognized feature of Compas.

Compas is compact

The designof the Compas system enables easy handling of all machine operations – especially

the tension control applied to the fabrics, which is critical in compacting processes.

During operation, fabrics are warm and somewhat humid and are subject to lengthwise tensions which can severely impact the results. The Compas configuration ensures very short distances between machine elements. Even the pin tenter controlling the fabric width is integrated into the main body of the machine. This minimizes the distance between the point where the fabric leaves the pins and the compacting section, where the lengthwise shrinkage is actually imparted.

The compactness of the machine also limits energy consumption, unlike systems comprised of several separate units where both energy and steam requirements are increased dramatically.

Innovations with an 'eco-attitude'

The Compas pin tenterhas a V-shaped steaming unit which follows the fabric so that steam is applied only where fabric is running. That means the steam is exploited to maximum effect, without wasting energy.

Sperotto Rimar developments are designed to express the company's stated 'eco-attitude'. The sophisticated technology of Compas embodies this policy, by empowering more sustainable finishing with a closed-loop cooling circuitto save precious water. Indirect rubber belt cooling enables recycling with totally unpolluted water. This contrasts with conventional compacting machines using standard rubber belt technology, whichcan consume up to 4 cubic metersof water per hour.

Another plus comes from the fact that water isnot sprayed directly onto the compacting belt, avoiding water absorption by fabric being processed. This responsible use of waterfurther underlines the eco-attitude.

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Om Corporation

Om Corporation's unwavering commitment not to compromise with quality

Om Corporation never compromises with quality of manufacturing and supplying its weaving machinery & spare parts. Om Corporation firmly sticks to quality products. Company firmly believes the adherence to maintain quality in making product by which a company survives for long and it leads to enhance brand-value.


Bhavesh Patel

Gujarat, Ahmedabad based Om Corporation started this journey from 1985 with product of spare parts for Air jet, water jet, Rapier weaving machinery. The company uses the same OEM metallurgy as used by the weaving machine brand, while developing a spare part for a new and old models. Om Corporation has around more than 12000 stock keeping units (SKLJs) and it manufactures spare parts for many branded mills. But the biggest challenge ahead that company faces, is import of low-quality spares which are largely being sold at high discounted prices.

Over the last few years smaller weaving plants intend to using low quality imported spares for minimizing cost but big textile corporate mills and exporters never turn to such inferior quality spare parts and they do not compromise on the quality of fabrics. We have built ground of quality product and the company will uphold ethics not to surrender to fierce attack of cheap products at any cost. Company firmly believes that smaller weaving mills are sure to realise eventually that low-quality cannot save the cost for long run production process because of its vulnerability.

Om Corporation to day, is the supplier of spare parts to small units to big corporate mills like Vardhman Group, Sangam India, Arvind Mills and many other corporate group in all over India and also abroad.

Currently company sells around 80-90% of its total production in Indian domestic market and remaining goes for exports to many countries. The company participates at various national and

international textile Machinery for promote spare parts globally.

For further Information, please contact :
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Mobile : +91 98251 88333, +91 7069888339
Email : info@omcorporation.org/co.in
Web : www.omcorporation.org/co.in ❐

Crealet AG

Crealet issued its 41st crealetter having published quarterly update with information and resources for professionals in the weaving and high-tech industries

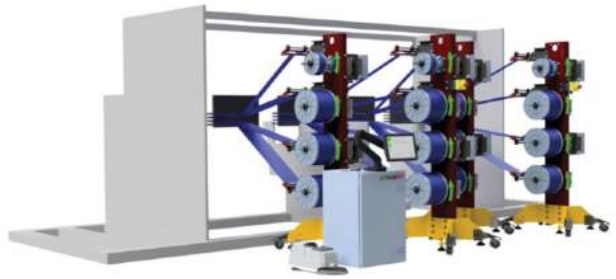
The many good reasons for multiple warp beams

Weaving with multiple warp beams is familiar from both ribbon and wide weaving. This can be achieved by arranging several warp beams on the weaving machine, but also by arranging the warp beams behind the weaving machine on separate frames. The fabrics produced in this way are intended for clothing or technical fabrics.

WEAVING FROM THE CREEL

Smart solutions for increased efficiency

If the warp beams are woven off quickly due to low weft densities or coarse yarns, this leads to frequent warp beam changes and thus to a reduction in the efficiency of the weaving machine. In such cases, weaving from the creel can be useful. When weaving from the creel, the warp threads are fed individually from a yarn bobbin to the weaving machine.



ATP-41 III

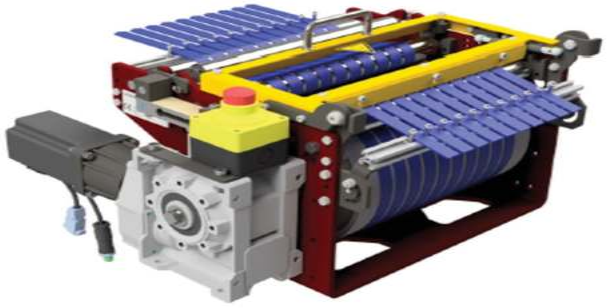
ATP-41 III: a new generation of large batch winders

The batch winders of the ATP-41 III series are characterised by a series of technological and design improvements that make them more versatile, flexible, and adaptable to any type of fabric. Look up the technical data and the optional accessories.

ECR WARP LET-OFF SYSTEM

Closed control loop to ensure constant warp tension

Warp thread tension is of decisive importance for the quality and efficiency of weaving machines. Precise control and adjustment of the warp thread tension is essential to produce high-quality fabrics. The integration of modern technologies into existing tensioning systems helps to further improve this aspect of weaving and increase the productivity of weaving machines as well as the quality of the fabrics.



DIVERSE SOLUTIONS AND CUSTOMERS

20 years special: solutions as diverse as our customers

Our electronic selvedge thread let-offs are used on water, air and rapier weaving machines to prevent wavy fabric edges. We also offer solutions for feeding systems for warp knitting machines or special machines that require controlled yarn feeding.

TECHTEXTIL 2024

Come and see CREALET at the leading international trade fair for technical textiles

We will be exhibiting at Techtextil in Frankfurt from April 23rd to 26th 2024 at the Swiss Pavilion, Hall 12.0, Booth B01.

For further information, please contact
Crealet AG — Customized Warp Systems
Hüeblistrasse 41 — 8636 Wald Switzerland
Website: www.crealet.com ❐

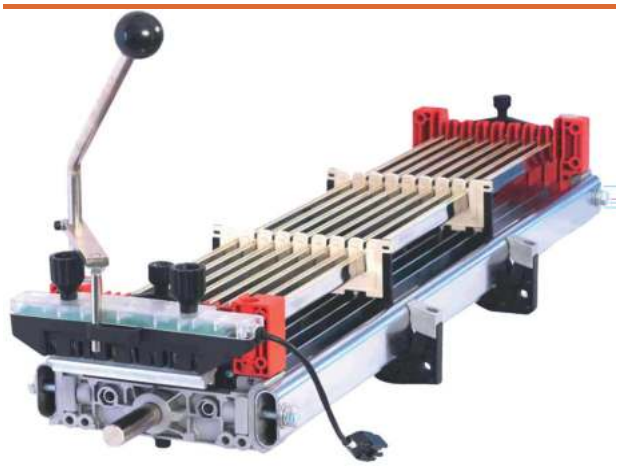
Shree Ram Textile

Bringing Invention & Innovation in weaving manufacturing is the major goal of Shree Ram Textile

Whenever one thinks of warp stop motion one must think of Shree Ram Textile, a leading tagline in modern textile world. Shree Ram Textile began its journey holding the hand of great visionary Late Shri Mohanlal C Panchal, grandfather of current Director, Purvik J Panchal.

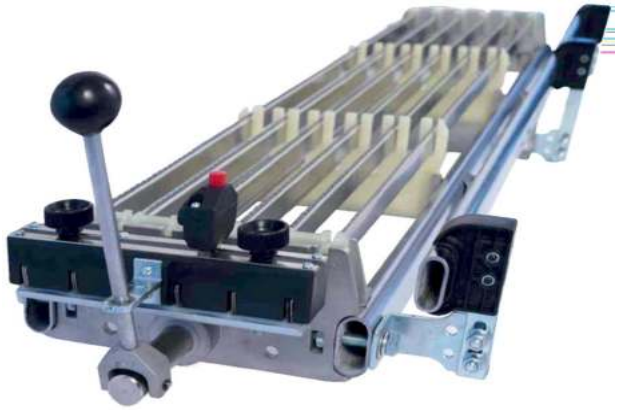
Shree Ram Textile runs with high reputation accompanying third generation family with vision of traditional roots. Shree Ram Textile is a regular participant at various national and international textile exhibitions like India ITME, ITMA etc.

One of the major aims of the company is to bring innovation and invention in textile manufacturing and textile weaving industry. Therefore, Shree Ram Textile casts major attention to Research & Development in textile machine manufacturing industry. Company strides in development of warp stop motion suited for all types of weaving machines.



Over the years the company has stuck to manufacturing only stop motion technology what is broadly used in weaving machine irrespective of textile & jute mills. The company is very

much aware of maintaining quality given top most priority at competitive price. Company does not ever face challenge in competition with Chinese product, because it adopted sophisticated technology in making the products. Keeping away the Chinese competition has been possible because warp stop motion technology never compromises with quality and it is given first priority. With help of this technology production and productivity of a worker increase manifold. Weaving process has been continuously modified through which constant innovation-process goes on.



Shree Ram Textile supplies products to numerous companies manufacturing weaving machines and high skilled weavers. Currently the company exports its latest sophisticated products to Vietnam, Myanmar, Indonesia, United Kingdom and a few African countries. The company emphasizes on providing quality technology inspired by the event in which company has been awarded certifications from leading associations.

In India the company sells its products through its channel partners spread across India. Initially Shree Ram Textile used to deal with 17 channel partners only, currently the number of channel partners increase to 42 for which company can boasts of.

Company is now on expansion mode of production capacity. Currently the company manufacture 2000 contact bar and 700-800 electrical warp stop motion per month. Over the last five years the company's product of electrical contact bar has been double. The production will continue to rise with operational of new factory near the existing one in Ahmedabad.

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Web : www.shreeram-group.com ❐

Basant Fibertek

Basant Fibertex emerges as a market leader in Pin product for textile manufacturing segment

Basant Fibertek has high expertise in fiber opening solutions for all types of natural and synthetic fibers, whether it is long staple, short staple or recycled fibers. It is a market leader in the field of Pins and Pinned Products for Textile Machinery including Pinned Rollers used in Blow Room and Carding machines, supplying to OEMs and leading Spinning and Recycling Mills and also exporting to more than 40 countries worldwide. Its product range also includes components for Open-End Spinbox, Finishing Stenters and Perforation of plastic films, nonwoven and paper.

In the segment of nonwoven manufacturing also, there is a specialised requirement for opening of a variety of fibers, including metal fibers at times. Following are the solutions Basant offers for nonwoven applications:

SOME PARTICIPANTS AND THEIR EXHIBITS

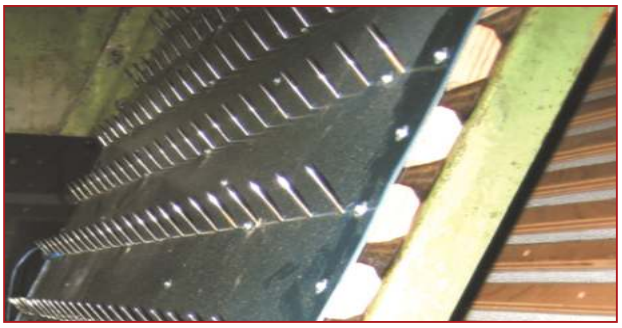
Opening Rollers

To process synthetic, metallic & natural fibres, non-woven waste, rags and clippings etc. Length upto 3.2m, diameter upto 600mm.

Lattices

Lattice upto 3m width in wooden & aluminium endless or with joint.

For makes Dilo, Asselin, Andtritz, Trutzschler, DOA, Fehrer, Cormatex, Befama, Bematic and others.



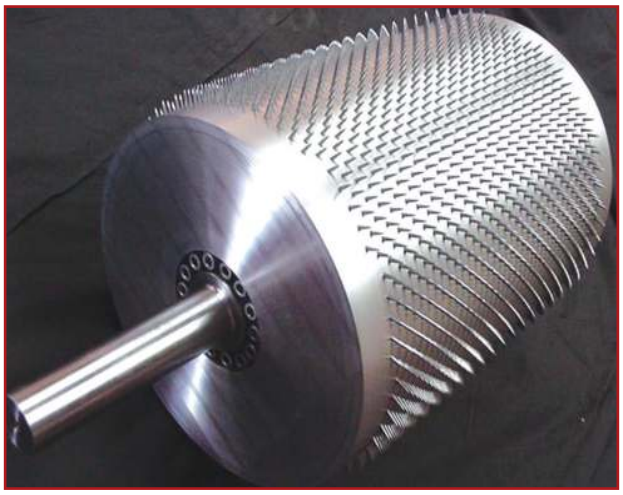
Spiked Lattice Apron type

Spiked lattice endless

Spiked lattice with Alligator joint

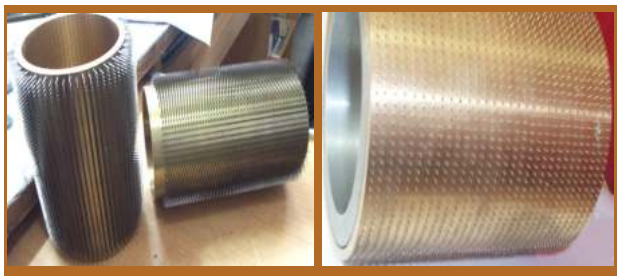
Selvedge Trim Roller

We supply these for opening fibers from edge trims. can be made for Trim Recycling machines as per OEM specifications.



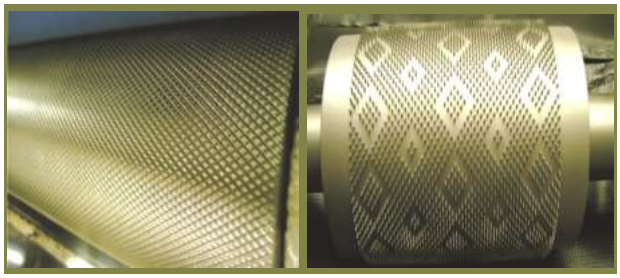
Brass Pinned Perforating Sleeves

We also supply custom designed Pinned Brass Sleeves for perforation of nonwovens. We can also design and supply perforating equipment that can be easily fitted in existing production line or rewinder.



Embossing Rollers

We can make customized design of embossing rollers for applying patterns on the nonwoven fabrics.



For further information, please contact :
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Tech Mech Engineers

Emergence of Tech Mech Engineers

Our entreprenuer Mr. Babulal D. Patel (D.M.E.) has started his own Industry as a **TECH MECH ENGINEERS** in Ahmedabad. Our dynamic engineers have gathered experiences of textile machine manufacturing in various companies in Ahmedabad. Now, within a short span of period Tech Mech has emerged as prominent manufacturing of textile weaving preparatory and cotton sizing Machinery and indigo denim plant in 1993.

Babulal Patel

Manoj Patel

Some innovative machines being manufactured by Tech Mech Engineering

- Advanced Computerised Sectional Warping Machine - Servo Driven
- Direct Warper
- Spindle Driven Drum Driven
- Warpers for Nero Fabrics
- Warping Creels with Electronic stop motions
- Precision Tensioners

Today, more than 2800 machine are being supplied all over India at major textile hubs. Company has been accredited by an ISO 9001 : 2008 certification with the team of skilled engineers and designing section to cater to the needs of the industry in weaving yarn preparations. All the developments are in-house and customised as per specific requirements.

Also D & B has raised our rank with their credit rating certification No. : D-U-N-S-No. 91-699-4937

General Features of Computerized Sectional Warping Machine

Model-Servotech 130/115

- A.C Variable Frequency Control Drive for Warping and Beaming Motor
- Programmable Logic Controller (Plc) With Exclusive Function

- Engaging & Disengaging of Beam by Manually
- Fixed Cone, Metallic Drum, Dynamically Balanced.
- Drum Circumferences Standard 2.5 Mtr
- Beam Doffing and Donning Hydraulically
- Safety Device to Avoid an Accident
- Flat Reed with Fine Angular Adjustments
- Automatic Distance Maintained Between Drum to
- Travers Table and Reed by Auto Mechanically
- Separate Beaming Section
- Hydraulic Disc Brake Blower for Disc
- Ups for Power Fail Back Up of Beam Data
- Standard Beam Barrel Length Working Width+600
- We Provide Head Stock Traverse Rail and One Set Beam Adaptor
- Ergonomically Designed Structure
- Central Position of Warping Table and Creel Maintained

Revolving Creel Model TC-5 (Most preferred model in industry)

Centrally Auto Tension Controlled Creel TC-8

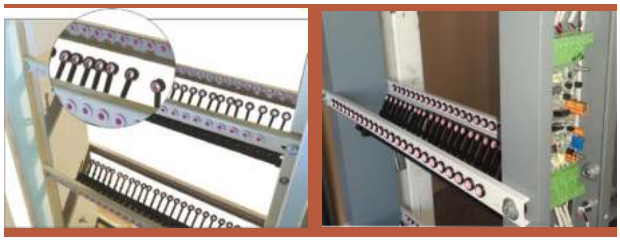
Tensioners

SOME PARTICIPANTS AND THEIR EXHIBITS

DTG The 17th Dhaka Int'l Textile & Garment Machinery Exhibition

Model THT- 31

Electronic Stop Motion



BT 101
HEAVY WARP BEAM TROLLEY

BT 105-A
CLOTH ROLL DOFFING TROLLEY

BT 106

EMPTY WARP BEAM TROLLEY

BT 103-A

SINGLE WARP BEAM TROLLEY WITH HARNESS MOUNTING DEVICE

BT 103-B

TWIN WARP BEAM TROLLEY WITH HARNESS MOUNTING DEVICE

BT 104-T

TELESCOPIC TOP WARP BEAM TROLLEY FOR TERRY TOWEL LOOMS

BT 108-A

BEAM PALLET TROLLEY

BT 103-C

TOP & BOTTOM WARP BEAM TROLLEY WITH HARNESS MOUNTING DEVICE

For further information please contact :
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Mobile : 093761 44954
E-mail : info@techmechwarp.com
URL : www.techmechwarp.com ❐

Dhara Engineering Works

Dhara Engineering Works becomes a global player in textile machine manufacturers aiming at customer satisfaction of paramount importance

A brief profile of Dhara Engineering Works

Dhara Engineering Works is one of the leading Stainless Steel Fabricator and mainly an OEM supplier to global textile machinery manufacturers. With more than three decades of industry presence, the company is now a reputed player in this field. Based in Ahmedabad, the company has been at the forefront of offering a wide range of value-for-money products. The stringent quality control measures employed by the company ensure quality products that adhere to specifications. The modern process technology and professional expertise enable the company to cater to the precise demand of its customers. Further, the strategic location of Dhara Tex Rolls in Ahmedabad makes it easily approachable through all modes of transportation. Moreover, this also facilitates timely delivery and prompt post-sales service to its customers. A team of experts along with sophisticated infrastructure equipped with all necessary amenities help in boosting the production capacity of the company.

Dhara Tex Rolls considers customer satisfaction of paramount importance. The company strives hard to offer superior quality products of international standards by exploiting all its technological and instrumental expertise. Established in the year 1991, the company now features high on the priority list of its customers.

Founder and Promoter

Mr. Karsandasbhai Panchal, the Founder of Dhara Engineering Works has 45 years of experience in textile engineering industry. The success and position of Dhara Tex Rolls is due to his continuous efforts and vast experience.

Mr. Shailesh Panchal the Co-promoter of Dhara Engineering Works, has 25 years of experience in Administration and Human Resources Management and is a solid bridge between Production and Marketing handled by Mr. Jay Panchal.

Vision

Stainless Steel Fabrication for various Textile Machinery for such valued clients who want better than best quality.

Mission

Dhara Engineering Works is committed to superior level of satisfaction for their valued clients in obtaining repeat orders by providing reliable quality products, user friendly communication and prompt delivery.

Products

- Drying Cylinders/Cans
- Jacketed Cooling/Heating Cylinders
- Storage Vessels
- Premixing Vessels
- Cooking Vessels
- Vertical/Horizontal Drying Range
- Guide Rollers

Drying Cylinder/Can

Specially developed manufacturing process and more than 35 years of experience in the production of the walled cylinders ensure products of highest quality. The cylinders are characterized by particularly low radial run-out and perfect welding workmanship.

The thin-walled steam cylinders are designed and constructed as pressure vessles, in-line with customer's requirement and specifications. These cylinders are used in sizing, non-woven ranges as well as in textile and technical fabric finishing machines.

- Annual Production Capacity – 3000
- Diameter – 400mm to 800mm
- Working Width – 1000 to 4000mm
- Hydraulic Test Pressure – 3 Bar to 12 Bar
- Working Pressure – 1 Bar to 6 Bar
- Shell Thickness – 2mm to 4mm
- Surface Finish – SS304/SS316 Polished/Teflon coated

Jacketed Cooling / Heating Cylinder

The defined re-cooling of the web after thermal processing is of special significance. If the web temperature is too high in relation to the next stage of processing e.g. cold pad batch dyeing or in chemical web impregnation, it would make the dye/chemical bath temperature increase within a short time, causing a considerable product quality loss. At Dhara, our scope of production basically includes two types of cooling cylinders with water-spraying system without controlled water circulation or with guide spiral double shell cooling cylinders. The even cooling and the temperature tolerance of less than ± 2°C across the whole width is guaranteed through the precise execution of the water guidance system.

Similarly Oil heating spiral circulation cylinders are offered for Textile & Non Textile industries.

- Diameter – 400 mm to 800 mm
- Working Width – 1000 to 4000 mm
- Hydraulic Test Pressure – 3 Bar to 5 Bar
- Working Pressure – 1 Bar to 3 Bar
- Inner Shell Thickness – 5mm to 12mm (SS/MS)
- Outer Shell Thicknes – 2 mm to 4 mm
- Outer Shell – SS304/SS316/Mild Steel
- Surface Finish – Polished/Teflon Coated/Hard Chrome Plated

Guide Rollers

Made of Stainless Steel/Mild Steel/Aluminum Light weight Roller for lowest possible fabric Tension Less Torque required

- Diameter – 100 mm to 400 mm
- Working Width – 1000 mm to 3600 mm
- Type – Plain/Fluted

Size Cooking Vessel

Size Cooker is compatible to any grade or size and ensures low viscosity even with starch sizes. It is designed to ensure easy operation and low maintenance. The stainless steel 304/316 pressure vessel has glass wool insulation and is jacketed outside to prevent heat loss.

The Stainless Steel Multilayer Blade Stirrer is positively driven by high torque AC geared motor. Direct Steam inlet thro perforated stainless steel pipe. Size Material loading thro manhole on the top that has hinged door and eyebolts. An indirect heating facilitate the cooker to be used as a storage vessel if required.

- Capacity – 1000 to 5000 Liters
- Type – Open/Pressurized
- Heating – Direct/Indirect

Size Storage Vessel

Stainless steel 304/316 storage Tank is provided with insulation from outside to prevent heat loss. SS stirrer work at a low speed and is driven by high torque AC Geared Motor on top of the vessel.

- Capacity – 1000 to 5000 Liters
- Heating – Direct / Indirect

Size Premixing Vessell

SS 304/316 mixing vessel is mainly used for homogenous mixture of size chemicals at ambient temperature. This stainless steel open vessel is provided with a high speed propeller stirrer which can be either clamped on to the rim of the kettle with swiveling arrangement or mounted vertically on the top of vessel. The position of propeller stirrer can be fixed high or low position to achieve best stirring results.

- Capacity – 1000 to 2500 Litres

For further information please contact :
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Phone : +91 98240 59699, +91 9998181778
Email : sales@dharaengineeringworks.com
jay.dharatexrolls@gmail.com
Website : www.dharaengineeringworks.com ❐

Sheeba Enterprise

Sheeba Engineering Co. emerges as a only company in India exclusively manufacturing the entire range of spares for all HTHP Dyeing machines

We would like to introduce our self as one of the leading Manufacturer and Exporter of HTHP Dyeing machines accessories, for the last two decades, our range includes Dyeing carriers, Spindles, Gravity locks, various types of accessories and Dye springs in Stainless steel manufactures from India. Sheeba Enterprise is a known name in international textile arena with participation at various global textile exhibitions including ITMA.

The only company in India exclusively manufacturing the entire range of spares for all

SOME PARTICIPANTS AND THEIR EXHIBITS

DTG The 17th Dhaka Int'l Textile & Garment Machinery Exhibition

HTHP Dyeing machines in SS 316L quality and follow the highest standards in our state of the art manufacturing unit.

Our 11,000 sq.ft having latest manufacturing unit has a skilled, committed and dedicated workforce.

We are the most trusted and leading manufacturer of Dyeing Carriers, Accessories and Dye Springs use for textile Processing industry and are supplying all over INDIA & Exporting to almost 42 countries. We export our products to countries like Belgium, Bulgaria, France, Germany, Italy, Portugal, Spain, Switzerland, Turkey, U.K., Czech Republic, Bangladesh, China, Hong Kong, Indonesia, Japan, Korea, Mauritius, Nepal, Oman, Singapore, Sri Lanka, Thailand, Canada, Egypt, Nigeria, Jeddah, UAE, South Africa, Argentina, Brazil, Equador, Guatemala, Mexico, Morocco, Peru, Moldova, Slovenia and many more. We are committed to total customer satisfaction so we are having a strong presence worldwide.

Spares are suitable for all Indian & Imported Brand Machinery like FONGS, THIES, THEN SHOOL, ILMA, HISAKA, SIR JACOB & PEGGS, JOSEPH-JASPER, CUBOTEX, POZZI, GALVININ, OBEM, LORRIS BELLINI, ATYC, NOSEDA, GOFRONTS, LAIP, GASTON COUNTY, MASTER, JUSAPAC, DALAL & STAFI MACHINES IN INDIA.

Apart from supplying our accessories to all leading Groups in India, we are also OEM supplier to leading HTHP machines manufactures in India, Turkey, and Portugal including Thies in Germany.

Trusted and appreciated all over the world, Sheeba Enterprise (Formaerly known Sheeba Engineering Co.)

Our research team have developed latest type of gravity locks specially for plastic tubes.

We have supplied to all over customers using plastic tubes and have shown appreciation with the repeat orders.

For further information, please contact :
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Gayatri Textile Machines

Gayatri Textile Machines never compromises with quality what brings global reputation

Our prime motto is to satisfy customer in all respects. Only customer's satisfaction is our profit margin. Considering Quality, Prompt Delivery, Price & after Sales Service, we are getting good responses from India and International Market. Gayatri Textile Machine has gained a lot of International reputation having participated at many national & international textile trade fairs like India ITME, ITM, DTG, VTG and ITMA etc.

Continuous design development / modification are being made in our range of products by studying customer's exact requirement, hence our products are successfully competing with others and exporting regularly in textile global market.

Our entire expert technicians are working under one roof–Gayatri Textile Machines.

Cot Grinding Machine

Model GCGHY-200-25-AF

This machine has been sophistically designed and constructed to perform vibration free for high accuracy, high productivity, Superior operability with very less maintenance. Hydro – Pneumatically operated to grind R/F and S/F (Murata Airjet, Sussen, Rocos etc) Top rollers only on pneumatically operated Centrelss Grinding Attachment with 200 min. wide emery having surface finish/accuracy as per international standards. To load 75 to 80 Top rollers of R/F or S/F at a time in adjustable magazine which will come one by one for grinding automatically with auto feeding system which is controlled by digital LCD electronic timer to set grinding time. The machine is equipped with dust extraction unit.

You can use another side to grind longer rollers like Draw Frame, Comber etc are grinded between centre by the help of MT2 Dead Centre with 25mm wide emery and hydraulically operated table traverse motion. Also we have made a provision that we have provided system for 200mm. wide emery attachment with hydro pneumatically operated Centreless Grinding attachment suitable to grind all kinds of R/F & S/F top rollers as an optional.

Net/Gross weight : 1400/1800 & 250/450 kgs

Size of cage L × W × H : 180 × 150 × 165 cm

Size of cage L × W × H : 180 × 85 × 160 cm

Ultra Violet Treatment Machine

The most advanced environment friendly and world wide accepted treatment for irradiation of all types of cots like Ring Frame, Speed Frame, Draw Frame, Comber, etc. Designed totally maintenance free to reduce lapping on buffed top rollers in spinning department. During treatment ultra violet rays improve the surface finish and control roller lapping to save costly rubber cots from damage

ensuring consistency of yarn costly rubber cots from damage ensuring consistency of yarn quality and increased productivity, having 2KW, 1400 Volts, U.V. Lamp. For uniform treatment roller rotating system is provided. Treatment time is 6-8 minutes per batch for 35 top rollers of R/F and 20 of S/F. Loading and unloading of top roller is manual, safe and easy. Complete operation is controlled by auto reset timer.

Net/Gross weight : 450/650 kgs.

Size of cage L × W × H : 150 × 95 × 170 cm

Hydraulic Cots Mounting & De-mounting Machine

Machine is designed to mount & demount all types of longer top rollers like Comber, RSB Draw Frame "ALUCORE" cots etc. by horizontal attachment with roller guide, Stroke adjustment will be as per cots length. Separate Vertical attachment is provided for Ring Frame, Speed Frame & O/E & texturizing cots (Plane, PVC, Easyfit, Alucore) for more productivity. Hydraulic Power Pack is provided to operate both attachment at a time with 2HP, 3 Phase electric motor. Working pressure can be adjustable.

Net/Gross weight : 350/550 kgs.

Size of cage L × W × H : 195 × 105 × 120 cms

Spindle Lubricating Machine

Lubrication machine is designed with 2 separate guns — flushing & oiling guns for perfect flushing/clearning & oiling of spindle bolster for longer life of bearing, having trolley wheel to move one place to another place.

Due to zero leakage, there is no oil around the bolster which also ensures no fly and fluff accumulation, thus keeping the spindle/ring frame neat and clean.

Model	3 Tanks	2 Tanks
Flushing Tank	20 Ltrs	20 Ltrs
Oiling Tank	12 Ltrs	12 Ltrs
Topping Tank	10 Ltrs	—
Electric Motors	0.5 HP, 1440 RPM Single Phase	
Weight Net/Gross Kgs	110/230	100/220
Size of Case	125L × 60W × 110H cms.	

Flushing Gun (Clearning Gun)

Fitted with S.S. nozzle assmebly, which cleans the bolster from neck bearing to footstep bearing and the dirty oil will be sucked out efficiently which will go to the flushing oil tank duly filtered twice by micro filter.

Lubricating Gun (Oiling Gun)

Equipped with adjustable S.S. dual nozzle assembly and easily adjustable auto oil level gauge system to maintain automatic oil level uniformly with no overflow or leakage at all. The same gun can be used for oil topping facility.

For further information, please contact :
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Itema Group

ITEMA GROUP showcased its the new rapier weaving machines R9500^{EVO} and Galileo^{RX} at ITMA Asia + CITME for the first time together in China

Itema, the global leading provider of advanced weaving solutions, participated at ITMA Asia + CITME in Shanghai presented for the first time together in China the two newest ranges in its rapier weaving machines portfolio, the Itema R9500EVO and the Itema GalileoRX.

China is without doubt the main market for the whole textile machinery industry, and Itema makes no exception. For this reason, Itema has been present in China since 2002 with its local branch Itema Weaving Machinery China – today a top-notch organization counting more than 160 employees making up an extensive team of experts from different fields, including sales, after-sales, and spare parts services, along with a local team for operations, product and quality engineers. Skills, experience, and passion for textiles are the common denominators of Itema employees all over the world and the key factor to ensure precise production processes and textile expertise.

13 Itema Weaving Machines displayed at ITMA Asia + CITME

- The new Itema rapier weaving machine R9500^{EVO}: the latest Itema weaving machine range gained a lot of interest from all over the world after the market launch at ITMA 2023 in Milan thanks to its significant innovations designed to raise the bar in terms of textile mastery, eco-efficiency, performance, and easy weaving. The R9500^{EVO} on show (2200mm) had been weaving Wool fabric and featured the iSAVER®fancy – one of the new versions of the iSAVER® range, now available in up to 6 colors and for many more applications, including luxurious fabrics such as wool, cashmere and wool blends, thus significantly increasing the contribution to sustainable weaving.
- The first Itema Galileo^{RX} rapier weaving machines on display at the Itema Group booth had been weaving Denim Double Stretch (2300mm). The machine was equipped with iSAVER®eco, the iSAVER® model fine-tuned to weave denim
- and the second Itema Galileo^{RX} on show, in 2300mm weaving width, will be running an Apparel style. On its first appearance at ITMA Asia, the Itema rapier weaving machine Galileo^{RX} has been launched in December 2022 and was specifically designed to combine the most innovative weaving technology with the unique advantages of accurate manufacturing in China. Born on the heritage of the most successful high-end rapier weaving machine assembled in China, the Itema R9000 and later R90002, Galileo^{RX} features further technological and design advancements to fully meet the needs of the Chinese and Asian markets - a totally open platform configurable to meet exactly the weaver's requirements.

Itema® Weaving Machines on show in partners' booths

Itema weaving technology is traditionally recognized to be the preferred choice of textile machinery producers due to its superior versatility and textile mastery. Here lies the reason why a number of 10 Itema weaving machines was exhibited in partner booths, encompassing Jacquard shedding machines manufacturers and label looms providers.

Itema Group: a complete offer for Asian markets

In addition to Itema's weaving machines line-up, visitors took advantage of the Group presence to discover the additional and valuable offerings that only Itema guarantees, including the new Itema Customer Portal HelloItema, OEM Spare Parts and After-Sales Support.

The company spare parts and after-sales teams were on site to present fast and reliable service when it comes to offering Customers peace of mind through high-quality replacement parts, customized upgrade kits to optimize machine performance and retrofit latest Itema innovations on existing looms, electric, electronic and mechanic repairs to give new life to looms, as well as training to ensure Itema weavers get the most out of their weaving machines thanks to the ItemaCampus trainings available in 7 worldwide locations.

Lamiflex®, the leading supplier of technical composite products which entered Itema Group

in 2017 – were present at ITMA Asia in the Itema Group Booth with its ample catalogue of key rapier weft transfer components such as flexible rapier tapes and sprocket wheels available for any weaving machines brand, with the guarantee of the best European quality and sector know-how and the advantage of a competitive offering.

Itema Technical Fabrics Open House in Itema Weaving Machinery China premises

Itema took advantage of ITMA Asia to open the doors of its premises in Shanghai to host an Open House entirely dedicated to the world of technical textiles. The event took place every day from November, 20th till November 22nd – and represents an unmissable occasion to deepen industry trends and discover more about the most complete weaving machine portfolio on the market to weave technical fabrics, ranging from Negative and Positive Rapier, to Monorapier for carbon fiber and fancy styles, Airjet and the legendary Projectile.

The Itema Technical Fabrics open house in Itema Weaving Machinery China was an invitation-only event, but visitors of ITMA Asia exhibition asked at the main Itema booth reception and profit of the daily shuttle bus to visit the event.

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(For Cone, Loose Cotton, Bale)

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(For Cone, Warp Beams, Bobbin)

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TYPE

(For Spindle RPM Measurement)

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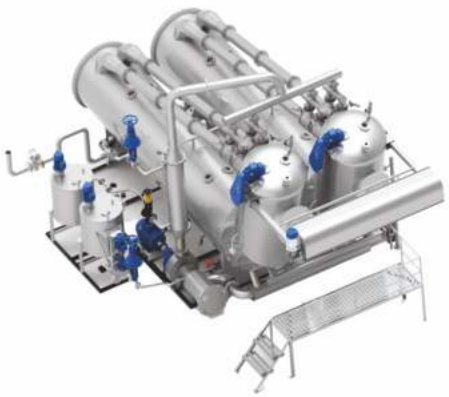





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Registered with the Registrar of Newspaper for India R.N.I. No. 2815/1958
Postal Registration No. KOL RMS/264/2022-2024

Published & Printed by Shri Debajyoti Dutta on behalf of M/s. Eastland Publications Private Ltd.,
Published at: 44, Chittaranjan Avenue, Kolkata-700 012. Printed at: Gita Printers, 51A, Jhamapukur Lane, Kolkata-400 009
Editor : Malay Chakarabarti