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EDITORIAL

The Quintessential winter fabric, Tweed, getting a modern update

Like Denim, tweed is one of those fabrics what every ones knows. Tweed is originated in Scotland in the 18th century, therefore experts say the classic tweeds from Scotland. It is traditionally a coarse cloth woven from virgin wool, usually in earthy colours. For all its aristocratic associations, tweed started as a work wear fabric. It is warm and also wind-and-water resistant. A good tweed jacket would last lifetime.

But like other traditional fabrics such as our very own Khadi, it fights an image—of being old-fashioned and stodgy. Subscribing to that image is to malign one of the most impressive fabrics that can be surprisingly functional. Little wonder then that designers are trying to make this cloth of Scottish origin shed its baggage.

During the pandemic, there has been a return to classics and lasting styles. Tweed, as a heritage fabric, fits right in. Tweed blazers pair with less-trimmed silk shirts has become very aristocratic outfit today. Leading fashion brand owners say tweed is a functional fabric. A tweed travel jacket is a staple for all fashionable men on the move. It is utilised in lightweight overcoats because it is warm yet water—resistant so it holds up beautifully to general humidity and light rain.

Tweeds are breaking away from its men's only image. Cloths are increasingly becoming non-gender binary. While women coming out in large with positional power, it is no longer a male-only prerogative. In the view of stylists the beauty of tweed is its old-world charm and, like most things timeless, it is all about seeing it with a new point of view. Classic tweed jacket is that it can be styled up, or down, depending on the occasion. Menswear designers say the beauty of tweed is that no two pieces are the same: Made from a motley of yarns, every tweed is a different story and has a unique character. It is easy to work with and wear too. Designers say tweed is beyond trend but fashion diktats constantly seek the new.

WORLD ECONOMY AND TRADE TRENDS

China GDP surges 2.3% in '20, back to pre-Covid trajectory

China's economy roared back to pre-pandemic growth rates in the fourth quarter as its industrial engines fired up to meet surging demand for exports, pushing the full-year expansion beyond estimates and propelling its global advance. Gross domestic product climbed 6.5 per cent in the final quarter from a year earlier, pushing growth to 2.3 per cent for the full year. That leaves the world's second-largest economy driving global growth and potentially passing US GDP sooner than previously expected. The V-shaped recovery from the biggest slump on record was engineered by getting Covid-19 under control and deploying fiscal and monetary stimulus to boost investment. Growth accelerated as the nation's factories revved up to meet demand for medical equipment and work-from-home devices in an export bonanza that saw it ship 224 billion masks from March through December—almost 40 for every man, woman and child on the planet outside of China. While the revival makes China the only major global economy to have expanded lst year, it didn't come without cost as long-term imbalances worsened. Consumption lagged industry as workers tightened their belts and income inequalities widened, as they have elsewhere around the world. "There's a huge discrepancy between production and consumption," said Bo Zhuang, chief China economist at TS Lombard. "I am not very optimistic about domestic demand, as wage growth is not back to pre-pandemic levels." The stimulus to support the economy through the pandemic has been accompanied by a surge in debt which authorities are now seeking to curb as the recovery takes hold. At a December meeting to lay out economic goals for 2021, the ruling Communist Party signalled that stimulus would be gradually withdrawn, although it would avoid any "sharp turns" in policy. The onshore yuan weakened 0.07 per cent to 6.4864 per dollar as the greenback rebounded. ❐

IMF cautions euro zone recovery may slow, stimulus still needed

The euro zone is in danger of seeing a slower economic recovery in 2021 than previously expected, and may need more stimulus as a resurgent coronavirus sweeps through the continent, the International Monetary Fund said. Risks will remain on the downside into the new year and the timing of a rebound will depend on how quickly and effectively a vaccine is rolled out, the fund warned. It said unprecedented policy responses at national and European Union levels have helped cushion the impact of the crisis. "Unless pandemic dynamics change significantly in the coming months, economic activity is set to recover more gradually than forecast," the IMF said in a report after talks with euro-zone members on their common policies. Further fiscal support will be needed and governments should "explore options to enhance the current fiscal rules." For now, the IMF maintained its estimates of an 8.3% slump in the 19-member euro area this year and a 5.2% economic rebound in 2021. A slower recovery would be more likely to produce long-term "scarring" that could weigh on the bloc in the future, it warned, adding that tensions between the UK and EU over Brexit have increased uncertainty. Italy and Austria have imposed new lockdowns to contain the virus spread, while the UK is facing a surge of infections and a new variant of the coronavirus that led several nations to tighten restrictions on travel to and from the country. Such events are putting a damper on hopes of a quick recovery. ❐

US trade gap expanded to 2nd biggest on record in November

The US trade deficit widened to the second-largest on record in November as merchandise imports reached a more than one-year high in the midst of the holiday shopping season, causing the shortfall in goods to climb to the highest yet. The gap in trade of goods and services expanded to $68.1 billion in Novermber from $63.1

billion in October, according to Commerce Department data released recently. That compares with a median estimate for a gap of $67.3 billion in a Bloomberg survey of economists. Total imports increased 2.9% to $252.3 billion, with inward-bound shipments of goods climbing to $214.1 billion, the highest value since May 2019. The merchandise-trade deficit increasd 6.2% to $86.4 billion, the biggest on record, while the nation's surplus in services to $18.2 billion, the lowest since August 2012. ❐

UK economy contracted by 2.6% in November as services suffered

The British economy looks set to fall back into recession after official figures recently showed that it shrank by 2.6 per cent month-on-month in Novermber, when much of the country was in a second lockdown. The Office for National Statistics said that as a result of the fall, the economy is 8.5 per cent smaller than its pre-pandemic peak. When the pandemic struck last spring, the economy contracted by up to a fifth over the first half of the year, before a summer easing of restrictions saw the economy recover a chunk of those losses. ❐

US manufacturing output more than December forecast

Production at US manufacturers increased in December by more than projected, marking an eighth straight month of gains as steady yet more moderate demand growth and lean inventories continue to power the sector's recovery. Output at factories rose 0.9% from the prior month after a 0.8% gain in November, Federal Reserve data showed recently. Total industrial production, which also includes mines and utilities, jumped 1.6% in December, the most in five months, after an upwardly revised 0.5% gain. The median estimate in a Bloomberg survey of economists called for 0.5% gains in both manufacturing output and industrial production. An annualised 11.2% increase in fourth-quarter manufacturing production shows factory activity continues to steadily rebound. Prospects for stronger growth this year should continue to support the industry this year after the pandemic caused factory output to decline 6.9% for all of 2020. Still, hurdles remain, including labour constraints at factories and surging Covid-19 infections that could limit the pace of recovery. ❐

Covid may bring more fear for years : WEF

The coronavirus has exposed the "catastrophic effects" of ignoring long-term risks such as pandemics, and the economic and political consequences could cause more crises for years to come, according to the World Economic Forum (WEF). The WEF's annual survey of global risks lists infectious disease and livelihood crises as the top "clear and present dangers" over the next two years. Knock-on effects such as asset bubbles and price instability lead concerns over 3-5 years. The WEF said most countries struggled with crisis manangement during the pandemic, despite some remarkable examples of determination and cooperation. That highlights how leaders need to prepare better for whatever the next major shock turns out to be. "The immediate human and economic cost of Covid-19 is severe," the WEF said in the report. "The ramifications—in the form of social unrest, political fragmentation and geopolitical tensions—will shape the effectiveness of our responses to the other key threates of the next decade." While the impact of the pandemic is dominant at the moment, other events will likely come to the fore, according to the survey. As in previous years, extreme weather is seen as the most-likely risk, just ahead of a failure on climate action. Infectious diseases make the top five for the first time in at least a decade. Digital inequality and the concentration of digital power are also seen as major concerns, with WEF Managing Director Saadia Zahidi warning of a global "bifurcation in terms of growth and development." "There are parts of the world that have digital access and inclusivity and that is where some parts of the workforce—not all—are able to continue, are able to adapt," she told Television recently. ■

INDIAN ECONOMY AND TRADE TRENDS

Exports surge 16.2%, imports up 1.1% in first week of January

Engineering goods and petroleum products have placed India's exports on the growth track in the first week of January with outbound shipments posting an increase of 16.2 per cent (year-on-year) to $6.2 billion, according to preliminary data shared by the Commerce & Industry Ministry. Imports, too, registered a growth of 1.1 per cent during the week at $8.7 billion, due to a sharp increase in imports of pearls, precious & semi-precious stones and vegetable oil, compared to the same period of the previous year, according to data. While the rise in exports in the first week is good news especially at a time when overall trade figures have been sliding both domestically and globally due to the on-going Covid-19 pandemic, one has to wait for the data for the entire month before drawing conclusions. In the month of November last year, the export data for the first week had posted an increase of 22.5 per cent to $6.75 billion, but exports for the entire month were down 9 per cent to $23.43 billion. Engineering goods showcased the maximum increase of 51.8 per cent (an additional $636.8 million), accounting for nearly 73.5 per cent of the overall increase. It was led by increase in exports to South Africa. Petroleum products also contributed to increase in exports, driven by rise in shipments to South Africa and Australia, and accounted for 13.2 per cent of the total increase. Its exports increased by 17.3 per cent (an additional $114.7 million). Some of the increase was offset by decrease in exports of ready-made garments, (26-per cent decline), man-made yarns (22-per cent decline) and inorganic and organic chemicals (5.5-per cent decline). Imports of pearls, precious & semi-precious stones increased 86.5 per cent (an increase of $220.6 million) accounting for 238.8 per cent of the overall increase. This was mainly due to increase in imports from the UAE and the US. Vegetable oil also registered an increase of 88.2 per cent accounting for 131 per cent of the total increase. In April-December 2020-21, the country's merchandise exports contracted by 15.8 per cent to $200.55 billion, compared to $238.27 billion in the same period of 2019-20. The decline in imports during the nine months of the current fiscal was sharper at 29.08 per cent to $258.29 billion. ❐

Trade with China declined in 2020, deficit at five year low

India's trade with China declined last year to the lowest level since 2017, with the trade deficit narrowing to a five-year low as the country imported far fewer goods from its northern neighbour. Bilateral trade slid 5.6% to $87.6 billion, according to new figures from China's General Administration of Customs (GAC). India's imports from China shrank by 10.8% to $66.7 billion, marking the lowest level of inbound shipments since 2016. India's exports to China, however, jumped 16%, crossing the $20 billion-mark for the first time to a record high of $20.86 billion. The trade deficit, a source of friction in bilateral ties, shrank to $45.8 billion, the lowest level since 2015. While there was no immediate break-up of the data for 2020, India's biggest import in 2019 was electrical machinery and equipment, worth $20.17 billion. Other major imports in 2019 were organic chemicals ($8.39 billion) and fertilisers ($1.67 billion), while India's top exports that year were iron ore, organic chemicals, cotton and unfinished diamonds. The last 12 months saw a surge in demand for iron ore in China, as a slew of new infrastructure growth after the COVID-19 slump lifted consumption of steel. Total iron ore imports in Asia's largest economy rose 9.5% in 2020. The drop in India's imports from largely mirrored a decline in overall inbound shipments last year as domestic demand slumped in the wake of the pandemic. That makes it difficult to determine whether 2020 is an exception or marks a turn away from the recent pattern of India's trade with China, especially since there is, as yet, no evidence to suggest India has replaced its import dependence on China by either sourcing those goods elsewhere or manufacturing them at home. The dip in exports to India bucked a strong year for Chinese exports, which surged 10.9% in December and grew 4% in 2020, aided by the economic recovery in China while many countries worldwide remained in various stages of lockdown. The full year's export performance marked a sharp turnaround for the world's second-largest economy, which saw its GDP contract 6.8% during the height of the COVID-19 outbreak in the first quarter, while foreign trade fell 4.9% year-on-year over the first six months through May. With a stringent lockdown containing the outbreak in China by

the summer, the economy rebounded to grow 3.2% in the second quarter and 4.9% in the third, with China's industries humming back to life even as much of the rest of the world remained in varied states of lockdown. China was "the world's only major economy to have registered positive growth in foreign trade in goods," said Li Kuiwen, spokesperson of the GAC, with China's foreign trade and exports in the first 10 months of the year accounting for a record 12.8% and 14.2% share of the global totals, respectively. That was reflected in the annual export figures, as China posted sharp increases with most of its major trading partners. Exports to the ASEAN bloc, China's largest trading partner last year with bilateral trade amounting to $684 billion, rose 6.7%, while exports to the EU, China's second-largest trading partner, also rose 6.7% as total trade reached $649 billion. Despite the trade war with the U.S. and the pandemic, two-way trade was up 8.3% to $586 billion, with China's exports rising 7.9% to reach a record $451 billion. The trade surplus with the U.S. expanded to $317 billion in 2020, compared with the $288 billion figure at the end of President Donald Trump's first year in office in 2017, underlining the limited impact of his tariff measures as he ends his presidency. ❐

Apparel exporters must aim to capture double digit share of world market : Naidu

Indian apparel and fabric exporters must aim to capture a double-digit share of the world market, from its current level of 5-6 per cent, through upskilling and use of latest technologies, Vice-President M Venkaiah Naidu has said. Inaugurating the 24×7 virtual exhibition platform of the Apparel Export Promotion Council (AEPC) recently, Naidu said that this effort, together with the support of the Textile Ministry, will boost Indian apparel exports. "We should soon aspire to reach a double-digit share in export of fabrics with proper encouragement and branding," the V-P said, according to a statement circulated by AEPC. The virtual exhibition platform will showcase Indian apparels round the year and host B2B meetings. "Considering the travel restrictions due to Covid-19 pandemic, the platform is seen as a better economy and convenience," the statement pointed out. Naidu said that the industry should try to focus on the reasons behind why it lacked the competitive edge in fabrics and apparels when compared to Bangladesh and China, despite being the leading producer and exporter of cotton, jute, silk and MMF yarns. "They (Bangladesh and China) are the biggest buyers of Indian yarn. They add value to it and sell the fabrics and apparels at a lower cost than India. This is largely due to the unorganised and dispersed nature of the weaving sector in India. We need to have more Tirupurs," he said, referring to the textile hub in Tamil Nadu. The Indian apparel industry created world history by establishing a ₹7,000-crore ($1 billion) personal protective equipment (PPE) and N95 mask industry in the midst of a pandemic in just two months, pointed out Minister of Textiles Smriti Irani. "Reflecting the same enterprise, AEPC has now created a virtual platform. It will give rise to opportunities for over 300 top exporters in the country. But knowing that AEPC is an 8,600-member family, I am hopeful that the platform specially gives space to those who innovate, who belong to the SME segment, who are start-ups, as young innovators need a supporting hand," Irani said. ❐

India trails China, Vietnam by far

As India's Merchandise exports limp back to normalcy, two of its key rivals in global markets have surged ahead with greater vigour, beating the Covid blues. While China has pipped India in scripting a resurgence in exports to the US and the EU (excluding the UK), New Delhi's largest destinations that account for a third of its overseas despatches, Vietnam outpaced even China in the recovery. This suggests India's export contraction may have been accentuated by factors other than just a Covid-induced demand slowdown, mainly in the West. Forget China, in absolute term, even Vietnam has now beaten India in exports to the EU, having already surpassed it in supplies to the US in 2018. Between January and November 2020, while India's shipment to the US shrank 13.3% on year to $46.3 billion, China's dropped by only 5.8% to $393.6 billion despite a trade war and growing criticism of Beijing's mishandling of the Covid outbreak. ■

Textile sector opts for uniform GST, removal of dumping duty inputs

The Textile Ministry has taken up the industry demand for implementing a uniform GST (Goods & Services Tax) structure for apparels and textiles to address the problem of higher duties on inputs and abolishing anti-dumping duties on viscose staple fibre (VSF) with the Finance Ministry.

"The inverted GST structure in the textile industry and the anti-dumping duty on viscose staple fibre are two major irritants for textiles and garments manufacturers. The Textile Ministry has been holding discussions on the two issues with relevant bodies and the Finance Ministry.

In the last Budget, the Finance Ministry had removed anti-dumping duties on purified terephthalic and (PTA), which is an important input in the manufacture of textile fibres and yarns. The move hit domestic manufacturers of PTA such as Reliance Industries, JBF and Indian Oil but benefited thousands of fibre, yarn and garments producers who could source the input much cheaper.

In November 2020, the government withdrew anti-dumping duty on acrylic fibre to enable sweater and shawl manufacturers get the raw material at competitive prices.

"There is now a big demand from textile bodies for removal of anti-dumping duties on VSF to benefit the entire value chain given the growing demand for VSF and its blended textiles," the official said.

Textile associations such as the Southern Indian Mills Association, Indian Texpreneurs Federation, and Northern India Textile Mills' Association have given representations to the Centre seeking removal of anti-dumping duties on VSF to prevent stoppage of production across the value chain and save jobs from getting lost.

We will not know whether the demand of the textile sector will be met but the government has already demonstrated that it understands the need to do away with anti-dumping duties on critical inputs. If around two decades of protection has not made the dometic producers of the inputs competent, then there is no point of continuing to shield them," the official said.

On the demand for implementation of a uniform GST structure for textiles, the official said the present rates were creating an inverted duty structure, where taxes on inputs are higher than that on output, and blocking working capital. "The Textile Ministry had earlier taken up the matter with the GST Council.

At present, man made fibre is taxed at 18 per cent, spun yarn and filament yarn at 12 per cent and final output, including garments, at 5 per cent. "As far as refunds are concerned, there is no certainty when that would happen," the official said.

Indian textiles and apparel industry account for about 2.3 per cent of the GDP, 13 per cent of industrial production and 12 per cent of export earnings, as per government figures. There are an estimated 4.5 crore people engaged directly in the textile industry and another six crore in allied sectors. ■

Sports apparel Cos surpass lifestyle rival in growth

Sports apparel and foot-wear companies have outrun fast-fashion and lifestyle rivals since the onset of Covid-19 as sales of sportswear have continued to grow during the pandemic, driven by increasing appetite for fitness in the country and increasing adoption of sporting disciplines other than cricket. Companies such as Decathlon, Asics, Puma, Skechers and Reebok grew 7.24% in the year ended December 2020, significantly outpacing apparel retailers Zara, Benetton, Marks & Spencer, Levi's and Lifestyle, which either declined or expanded in low single-digits during the year, according to regulatory filings.

"There is an increasing number of people who are getting inclined toward health and fitness, and more people going to the gyms, where young consumers don't just want to be fit but also want to look good. So athleisure products have a blend of performance and looking good," said Rajat Khurana, managing director at Asics India and South Asia. "The market dynamics is working in our favour and we grew 30% last calendar year." For 2019, the company had reported 18% growth. India has seen increasing interest in sports such as kabaddi, soccer, vollyball, hockey and badminton. ■

Plastic, used-cloth recycling units in SEZs get 6-month relief

The plastic recycling and worn and used-clothing units in the Special Economic Zones (SEZs) in Kandla, Falta and Noida have received yet another breather with the Board of Approval for the zones granting them a fresh extension of six months.

This happened after the Commerce Ministry reported that it is yet to receive inputs from stakeholder Ministries and Departments on the draft policy framework for such units.

"The Commerce Ministry had circulated to all stakeholders, including the Department of Revenue, Ministry of Textiles and the Ministry of Environment, Forest and Climate Change (MoEFCC), a draft roadmap for SEZ units engaged in recycling plastic and used clothing plastic and used clothing late December. It is important to decide on the fate of these units fast, given the fact that import of solid plastic waste is prohibited in the rest of the country," an official tracking the matter told recently.

The BoA granted the six-month extension to the Letter of Approvals for all 47 recycling units, up to June 30, 2021, subject to clearance of all government dues, including penalties and rents by the units, according to the minutes of the meeting.

The extension shall also be subject to the notification of amendments in relevant rules by the Ministry and the subsequent finalisation of policy by the Department of Commerce in this regard, the BoA said. All the Development Commissioners concerned should ensure that the units fulfil all other criteria and there are no violation of SEZ Act Rules, it said. "The BoA linked the six-month extension in validity for the recycling units to the notification in amendments in relevant rules to ensure that if a decision on the final policy for such units is taken by the Ministries and Departments concerned in the interim period, the units will need to follow these," the official explained. Till some time back, only SEZs and EoUs were allowed to run recycling units as the government had banned issue of new licences for such units in the country. In March 2019, the Ministry prohibited import of solid plastic waste in SEZs and EoUs as well, but, a few dozen plastic recycling units were exempted from this rule.

The Centre has thus, been engaged in formulating an appropriate policy for 47 such plastic and used cloth recycling units to decide on their fate. "Various options are being weighed by the Ministries and Departments concerned to see how such units could operate without compromising on the need to protect the environment," the official said. ■

Textile Ministry to streamline procedures under tech upgradation scheme

The Textile Ministry has taken further steps to streamline procedures under the Amended Technology Upgradation Fund Scheme (A-TUFS), including a deadline extension for filing applications for verification, to make it easier for the industry to benefit from it.

"The textile industry units claiming subsidy can file application for physical verification after installation and commissioning of the machinery, within two years from the date of sanction of term loan, subject to production of documentary proof that the order for machinery was placed within one year," said a note prepared by the Ministry of Textiles.

Earlier, the units were required to seek approval for the second year from the Textile Commissioner for extension of timeline beyond one year with proof of pacing order for machinery, the note added.

A-TUFS aims to facilitate employment, investment, quality, productivity, as well as import and export substitution in the textile industry while indirectly promoting investments in the manufacturing of machinery for textiles. It is a credit linked subsidy for capital investment in the textiles and manufacturing sectors. ■

Awaiting dues Apparel & FMCG Cos appeal Sebi to clear RIL-Future Deal

Two industry associations representing apparel companies and distributors of fast moving consumer goods (FMCG) companies have written to the Securities and Exchange Board of India (Sebi), urging the market regulator to review and approve Future Group's deal with Reliance Retail Ventures quickly.

A quick resolution might help them recover about ₹ 6,000 crore in dues, pending almost a year.

In their letter, the Clothing Manufacturers Association of India (CMAI) and All India Consumer Products Distributors Federation (AICPDF) said the transaction approval has taken longer than expected and strained their finances completely. Together, they represent more than 5,000 small vendors and dealers.

"Even after your approval comes, it will take another 3-4 months to complete the transaction and for us to get out dues back. We are afraid any further delay in closure of the deal will force many distributors and employees to take grave personal and financial steps," wrote AICPDF in its letter to Sebi.

Last year, the Future Group that had debt of nearly ₹ 12,000 crore approached several investors after lenders exerted pressure and threatened to revoke promoter pledged shares. Reliance Retail Ventures, a unit of Reliance Industries, agreed to buy the retail assets of Future Group on a slump sale basis for about ₹ 25,000 crore, it was announced in August. As part of the deal, Reliance had also agreed to take vendor liabilities of ₹ 6,300 crore.

Amazon, which owns a 49% in Future Coupons Pvt Ltd, a Future Group holding company, objected to the deal and approached the arbitration court in Singapore. Of late, the US retailer asked Sebi to suspend its review of the deal and not grant it a no-objection certificate, since the transaction is under dispute in the Delhi High Court.

"Almost all vendors and lenders will be able to recover their dues from Future Group over a period of time after successful completion of the transaction," CMAI wrote in its letter.

The Competition Commission of India has already approved the deal which also requires clearance from Sebi and the National Company Law Tribunal in addition to no-objection certificates from creditors and minority shareholders.

In December, Future Group too sent a letter to Sebi to expedite the deal process.

"Any further delay on this count would cause irreparable loss not only to FRL and its stakeholders including lakhs of small investors but also to other entities and their respective stakeholders and investors, who are involved in the scheme," it said in the letter. ■

India likely to develop 7 Mega Textile Parks on the line of China, Vietnam

India is likely to develop seven mega textile parks, on the lines of China and Vietnam, as part of a plan to double the industry size to $300 billion by 2025-26.

The textiles ministry has readied a Cabinet note on the proposed national textiles policy, which seeks to position India as a fully integrated, globally competitive manufacturing and exporting hub.

The policy covers the entire spectrum of textiles, silk, handloom and exports, with a focus on employment generation and environment.

MITRA (Mega Integrated Textile Region and Apparel) parks are a key element of the policy to attract investment in the sector :

"There is a proposal to set up seven such parks," an official in the know of the details said.

Similar parks already exist in China, Vietnam and Ethiopia where the entire textiles value chain is covered, he added.

These seven parks would be set up on over 1,000 acres of land and will have uninterrupted water and power supply, common utilities and research and development labs.

India has already sanctioned 59 textile parks under the Scheme for Integrated Textile Parks (SITP), of which 22 have been completed. However, their slow progress due to delays in obtaining land and other statutory clearances from state governments and tardy fund mobilisation, have prompted the government to develop MITRA parks.

Under the SITP, which was launched in 2005, infrastructure for textile units was to be developed in a public-private partnership model, with the government granting up to 40% of the project cost, subject to a ceiling of ₹ 40 crore for each park.

"Foreign direct investment is low in India's textile industry and these MITRA parks are aimed at attracting both domestic and overseas investments," the official added.

From April 2000 to September 2020, India's textile sector received ₹ 20,468 crore, or $3.4 billion of FDI, which is 0.69% of the total FDI inflows during the period.

"These are larger parks than planned before and coupled with sops such as Production-Linked Incentive scheme, could become an attractive source of investment. However, FDI would only come in if the government allows exports," said an industry representative. ■

B. K. MEHTA MEMORIAL FOUNDATION LECTURE SERIES HELD ON 19TH JANUARY 2021

ISO Principles

Principle 1 – Customer Focus

Principle 2 – Leadership

Principle 3 – Continual Improvement

Principle 4 – Involvement of People

Principle 5 – Process Approach

Principle 6 – System Approach to Management

Principle 7 – Factual Approach to Decision Making

Principle 8 – Mutually Beneficial Supplier Relationship

Customer Driven Principles

1) Create Customer Focus throughout the Business

2) Listen to the Customer

3) Target Customers Precisely

4) Make Customer value the guiding R Star

5) Let the Customer define quality

6) Measure & Manager Customer Expectations

7) Manage for Profitability, not sales volume

8) Build Customer Relationships & Loyalty

Design for customer, procure for customer, produce for customer, dispatch for customer and collect from customer.

Customer orientation : Customer connectivity is critical to business.

Customer visitation : unsolicited service calls is a must.

Customers want bad news first and good news on time.

Establish Clear cut communication and transparency with customers.

Customer dissatisfaction starts the moment customer satisfaction is achieved, the bar gets raised.

Plan for dispatch

⇩

Procure for dispatch

⇩

Produce for dispatch

⇩

Dispatch for sale

⇩

Sale for collection

CUSTOMER SATISFACTION SURVEY

Customer's Name : Survey Period :

Address : Contact No :

Criteria's for Rating :

5 - Excellen 4 - Very Good 3 - Good 2 - Need Improven 1 - Poor

Sr. no.	Evaluation Parameter	Maximum Rating	Rating given by customer	Reason & Specific expectation if rated less than 3
1	On-time delivery performance	5		
2	Quality of products	5		
3	Communication regarding schedule matters	5		
4	Response to change in demand	5		
5	Timely response to complaint	5		
6	Line stoppage/Line Rejection	5		
7	Effective resolutions to complaint	5		
8	Timely completion of new product	5		
9	User friendliness of our reports and documents	5		
10	Packaging of product	5		
11	Understanding/ implementing your specific Quality Management System	5		
12	Fulfillment of Documentary	5		
	Total	60		

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■

TEXTILE MACHINERY MANUFACTURERS' ASSOCIATION (INDIA) MUMBAI

Speech of Mr. Vallabh S. Thumar, Chairman, Textile Machinery Manufacturers' Association (India) at the "60th Annual General Meeting of the Association" held on Thursday, 24th December, 2020 at 2.00 p.m. via, Microsoft Teams Meeting Video Conferencing Platform

My dear colleagues, industry experts, media professionals and, distinguished guests.

I extend a hearty welcome to all of you to the 60th Annual General Meeting of Textile Machinery Manufacturers' Association (India).

This is a life time experience for all of us that we are meeting virtually on this 60th anniversary of the association, right from our respective work place across the country. Thanks to Covid-19 Pandemic and the God Almighty! that we are interacting with each other in these thrilling times that comes in an entire centenary.

In this virtual AGM we are going to conduct our business session and shall announce the names of the Export and R&D Awards winners for 2019-20. And if the circumstances permit, we shall organize a grand event to celebrate our 60th Anniversary and recognize these awards winners prior to March 2021.

The soft copy as well as the hard copies of the Annual Report for the year 2019-20 along with the audited statement of accounts has been circulated among the members of the Association.

Before moving the Annual Report and the audited statement of accounts for approval of the members, I would like to brief about the industry scenario in general and enumerate the role of the association in the year gone by.

Economic Scenario

The Indian Economy slowed to an 11-year low of 4.2% in 2019-20 as against 6.8% in 2018-19, according to data released by the National Statistical Office. In the final quarter of the year, that is, January-March, the growth rate of Gross Domestic Product (GDP) fell to 3.1%, reflecting the impact of the first week of the COVID-19 lockdown which began on March 25.

After shrinking by 23.9% in Q1 of 2020-21, India's economy contracted by 7.5% in the Q2. And RBI predicts the GDP growth of 0.1% in Q3 and 0.7% in Q4 i. e. January-March of 2021. However, this optimism will depend on the containment of the existing COVID-19 infections and no further spread of any deadly strains of this virus.

Production Trends

The estimated capacity of the domestic TEI stood at Rs.11,000 crore in 2019-20. The production was Rs.5355 crore as against Rs. 6865 crores during the previous year; due to decrease in the capacity utilization from 62% to 49%. The decline in production of main sectors viz. spinning machinery, synthetic filament, weaving and processing machinery was responsible for this decrease.

Exports & Imports

The exports for the 2019-20 was Rs.2556 crores as against Rs.3665 crores achieved during 2018-19. The imports also decreased to Rs. 9273 crores in 2019-20 as against Rs. 10834 crores in 2018-19, due to the lack of domestic demand and stagnant investment by the user industry.

Meeting the demand

The total domestic demand for textile machinery shrank to Rs. 11269 crores during 2019-20 as against Rs.13,004 crores in 2018-19. The domestic industry supplied 25% of this demand during the year.

Measures for Growth Orientation

In 2011, TMMA conducted a study "Vision 2020 Report for sustained growth of Indian TEI" through Gherzi an international textile consultant. The vision document identified technology gaps and suggested remedies to overcome them. It also advised corrections in the government policies which acted as roadblocks for industry's growth. The association intends to conduct a similar study this year as well to define the vision and strategies for the growth of the Indian TEI in the next decade by the year 2030.

Continuing its efforts, the association has been pushing forward since 2019, its proposal for "Incentives for Commercialization of the Indigenously Developed and Acquired Technologies from Overseas", to MoT and DHI. The main purpose is to support the domestic R&D and joint ventures under 'Make in India' initiative to enhance quality standards and cost competitiveness globally. The MoT has taken the proposal positively, and initiated a study about the Indian TEI through 'Kalam Institute' located in 'Andhra Pradesh Medical

Technology Zone (AMTZ)' Vishakhapatnam. This medical technology cluster spread across 670 acres, built at a cost of Rs. 700 crores, was entirely funded by the Central and State Governments. The MoT led a delegation of TMMA and Industry in February 2020, to this park and has envisaged to create 10-12 similar 'Mega Clusters' for Textile and the Textile Machinery sector.

On the other hand, TMMA along with ITAMMA participated in a Study on "Improving Competitiveness of the Textiles and Clothing Industry in India" – By E & Y, instituted by National Committee for Textiles and Clothing (NCTC) and partly funded by the India ITME Society on behalf of Indian TEI. The study talks about the 'Competitiveness of the Indian Textile Machinery Sector'; encapsulates its future growth prospects vis a vis the Indian Textile Industry; and advocates policy requirements from the Indian Government to promote this industry as a whole.

New Foreign Trade Policy

The Commerce Ministry will soon come out with a new foreign trade policy, which provides guideline and incentives for increasing exports for the next five financial years 2021-26. The validity for the old policy (2015-20) is extended till March 31, 2021. The DGFT asked industry's recommendation on the current foreign trade policy. The association shared its inputs related to the EPCG Scheme & export promotion to DGFT and DHI after informing the industry.

Interactions with various Government Ministries and Officials

TMMA represents the industry to the Government to enable changes in the fiscal policy, removal of hurdles faced by the industry and assistance required for improving the technology, production and exports. The Association put in tireless efforts in approaching Governments for concessions and reliefs for initiating measures to revitalize the industry. TMMA submitted pre & post budget recommendations, GST related suggestions, inverted duty structures related issues, and industry representations on quality control order of Ministry of Steel and pending duty drawback cases of the industry, etc. to the relevant Government ministries/ departments.

The association participated in a number of 'Internal Technical Committee Meetings' and 'Technical Advisory and Monitoring Committee Meetings' organized by the Office of the Textile Commissioner (OTXC) in Mumbai. I appreciate the role of the entire OTXC in expediting the process of enlisting of textile machinery manufacturers and clearing the subsidy claims under the ATUF, RRTUF and RTUF schemes of Ministry of Textiles. The synergy created among the industry, government and the association, was commendable in easing out the business process during the year.

Development of High-Tech Shuttle-less Loom in India

TMMA proposed for the development of a high-speed high-tech shuttle-less rapier loom of international standard in November 2014 through a consortium of 5 Indian manufacturers of shuttle-less looms in the country with technical guidance and support from Central Manufacturing Technology Institute (CMTI), Bangalore under PPP mode. The consortium registered a section 8 company known as "TMM Hi-Tech Research and Development Foundation" (TMMC) in 2015 to execute the project in two phases. A tripartite agreement was signed among CMTI, TMMA, and TMMC thereafter. The prototype loom developed in phase 1, is in the final stage of testing in actual mill conditions and has been running satisfactorily at 450 RPM with warp & weft of different yarn thickness and yarn types. The loom prototype has achieved its mechanical parameters, and the development is on to attain its electronic parameters. Once that is achieved, the consortium may go for phase-2 of the project of developing a better version of 600 rpm. The TMMC is working on the completion of this project to make the product commercially viable.

Common Facility Centre

Under the DHI's CG Scheme, TMMA (I) in 2016, joined hands with 'Surat Engineering Vikas Association' (SEVA), a premier association of engineering industries in Surat and 'Sardar Vallabhbhai Patel Education Society' (SVPES) an engineering college based at Bardoli in Surat, to establish a Common Engineering Facility center (CEFC) for textile machinery, and light engineering industry.

The construction work of the CEFC Project was ongoing during the year and completed 80 to 85%. A number of CSR meetings were held during the year for fund raising strategy for the above Project. The main issue was the funding, as the industry contributions had not come as expected. The 80% of the equipment cost is covered by DHI's Grant, and about 70% of the infrastructure development cost would be given by the government of Gujarat.

TEXTILE MACHINERY MANUFACTURERS' ASSOCIATION (INDIA)

The project is delayed by 2.5 years and efforts are being made to conclude it at the earliest.

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Mr. Vallabh S. Thumar, Director
Weavetech Engineers Ltd.
195-Road No. 6F, Udhna Udyog Nagar
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Udhna, Surat-394210

First Vice-Chairman
Mr. Pratik R. Bachkaniwala, Managing Director
Palod Himson Machines Pvt. Ltd.
B-102, International Trade Centre
Majuragate, Surat-395001

Second Vice-Chairman
Mr. Prashant Mangukia, Director
Yamuna Machine Works Ltd.
D-17, Akurli Industrial Estate
Akurli Road, Kandivali (East)
Mumbai

Hon. Treasurer
Mr. Shailesh Wani, Managing Director
Stovec Industries Ltd.
N.I.D.C., Near Lambha Village
Post Narol, Ahmedabad-382405

Winners of the Export and R&D Awards for the year 2019-2020

I) EXPORT AWARD

Sl. No.	Awards	Won by
1)	Apex Awards	Kirloskar Toyota Textile Machinery Pvt. Ltd., Bangalore
2)	Segment Awards – i) Textile Machinery Sector ii) Parts & Accessories Sector iii) Testing & Monitoring Equipment	 Saurer Textile Solutions Pvt. Ltd., Mumbai InspirOn Engineering Pvt. Ltd., Ahmedabad Premier Evolvics Pvt. Ltd., Coimbatore
3)	Special Awards – i) Spinning Machinery Sector ii) Processing Machinery Sector iii) Textile Machinery Parts & Accessories	 Rieter India Pvt. Ltd., Pune Stovec Industries Ltd., Ahmedabad Maksteel Wire Healds Pvt. Ltd., Vadodara
4)	Special Awards – Small Scale Sector a) Machinery	Weavetech Engineers Ltd., Surat

II) R&D AWARD

Sl. No.	Won by	For Development of
1)	Inspiron Engineering Pvt. Ltd., Ahmedabad	"Presser Finger Automatic tucking-in for auto doffing roving frame"
2)	Lakshmi Card Clothing Mfg. Co. Pvt. Ltd., Coimbatore	"Flat Tops used in Carding Machine at Textile Spinning Mills" **Special Mention :** This is a very important fundamental/ basic research done. It's not just application/ engineering-based research which is done by most companies.
3)	Lakshmi Machine Works Ltd., Coimbatore	"DRAWFRAME LDB3"
4)	Maksteel Wire Healds Pvt. Ltd., Vadodara	"Certificate of Appreciation" for their development of Twin Wire Healds with Oil Tempered Wire, being a Small-Scale Industry.

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Indian Textile Engineering Industry concerned over rising input cost in the Post Covid-19 Revival of the Indian Economy

By Sachin Kumar, Executive Director, TMMA(I)

The industry members of the Textile Machinery Manufacturers' Association (I) expressed, in its recently held 60th AGM, positive sentiments about the overall growth in their respective businesses in the coming months. Majority of the companies shared that after negligible business during first 2 quarters of 2020-21, they have started getting orders being honored by their clients. Both greenfield and brown field projects are being negotiated with their clients these days. Their capacity utilization was close to 100% and they would be able to achieve up to 80-90% of their annual turnover as compared to previous year in the fourth quarter of the fiscal year.

However, the industry showed serious concerns about the rising prices of the raw materials especially steel. The order bookings which were closed at prices during April-May-June quarter of 2020, are supposed to be fulfilled by Q3 or Q4 of the current fiscal. At the time of booking the steel prices were 15-40% lesser than the current rates, therefore, the increased raw material cost is severely impacting the basic cost of the machines to be supplied. A table below shows the change in the prices of different mild steel and stainless-steel plates in the last 6 months.

MS STEEL and STAINLESS-STEEL SHEET/PLATES PRICE

SN	Product	Jun-20	Dec-20	% Increase
1	C. R. C. Sheets – M.S.	48.50	72.50	49.50%
2	Plates Mix size – M.S.	43.25	56	29.50%
3	Angle channel & Beam – M.S.	36.95	47.88	28.60%
4	SHEET/PLATE, SS304 CR (< 4 mm) – S.S.	168	192	14.29%
5	SHEET/PLATE, SS304 HR (> 4 mm) – S.S.	160	177	10.63%

Source : Industry

Coupled with increased fuel cost by 20-25% between April 2020 to January 2021, the prices of other commodities, transportation, material handling and manufacturing have also risen.

FUEL PRICES (Rates/Litre) in MUMBAI

SN	Product	Apr-20	Jan-21	% Increase
1	Petrol	75.28	90.83	20.66%
2	Diesel	65.19	81.07	24.36%

Source : www.bankbazar.com

There is already restriction on the import of steel and other products due to MoS circular that requires mandatory BIS certification of foreign companies. The domestic steel producers are in a monopolistic scenario wherein they have been dictating the prices. There are a number of high-quality Stainless-Steel products which can't be produced in India, but are required in very low quantities. These restrictions are only putting more hurdles for domestic machinery manufacturers to produce their machines at competitive rates and qualities in comparison to their global counterparts.

For 'Make in India' campaign to succeed, the Government needs to be more pragmatic and be open to the industry. The textile machinery industry expects an industry friendly budget from the Government this year. A prudent monetary policy shall take the growth trajectory of the Indian industry to the next level in the years to come.

However, the industry also articulated serious concerns that if the raw material prices remains at same level or escalate further, the prices of the Textile Machineries shall also increase at least 15-20% with in the current fiscal year.

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IMPROVING THE TEXTILE EDUCATION IN MAHARASHTRA

B. Basu
Retired General Manager, Reliance Gr.

1. What is Education ?

It can be defined as the wise, hopeful and respectful cultivation of learning undertaken in the belief that all should have the chance to share in life. Education, as we understand, is a process of inviting truth and possibility of encouraging and giving time to develop knowledge and vigour. Learning is a process of outcome. As a process it is part of living in the world with majesty. Education is respectful, being informed and wise appreciating what can make people flourish. It develops the capacity to reflect. It Ables to evaluate and judge the situations.

An educated man knows, understand what to accept and what to deliver. His communication skill increases, and he can influence others with proper justification. He can visualise between good and bad. He can prepare and build the Nation. It is the Instrument to be perfect, makes the way to earn bread & butter and knows how to build the future career with full honour.

2. What is the Technical Education ?

Technology education is the study of technology, in which students "learn about the processes and knowledge related to technology." Technical education is learning something about a specific work scientifically in detail and practical. Technical knowledge has expanded like anything in every way in special sphere and the experts get ready right from the 1st year in the Engineering Colleges. Technology education is an offshoot of the Industrial Arts tradition and the Craft teaching. It is a kind of education which equips with skills that involve the use of practical approaches and other physical instruments in executing and implementing projects. The Technical education helps to increase the educational engagement, achievement and attainment of students who are not excelling in more traditional academic programs. The practical learning experiences that are often provided in career and technical programs appeal to many students, and certain common elements—the focus on critical thinking, new technologies, real-world settings, hands-on activities, and the application of learning to practical problems, and civic contexts throughout a student's life. It is suggested that rather than learning from books, taking tests, and discussing abstract concepts in classrooms, students should gain practical, relevant, marketable skills that will help them more employable adults after graduation.

The government of India constituted the All India Council for Technical Education (AICTE) in 1945 as a national level apex advisory body for conducting a survey on the facilities available for technical education in the country. The aim was to promote development of technical education in a coordinated and integrated way.

3. The Importance and Benefits of Technical Education

The main aim of the technical education is that, it makes the students skilled and technically fit for the industries. The technical education schemes are having very good opportunities for career and employment. It imparts the knowledge strongly from the basics to advanced and modern technologies for the budding technical aspirants. The education which provides special practical knowledge of technologies and skills is known as technical education. It is different from general education. As far as concern the technical education promotes independent and self-learning, tunes the student effectively and increases the potential of the students. The technical education is not about studying and passing of the examinations, but it imparted a technical bias to the electrifying today's students.

Technical Education offers good opportunities for employments and it would be helpful to make successful career. If we talk about the technical education, it contributes a major share to the overall education system and plays an important role in the social and economic development of our nation. In India, technical education is imparted at various level right from ITI, Diploma to any higher level in specialized technical fields, accommodating to various aspects of technological development and economic progress.

In this era of unemployment, only technical education can assure one of a job or source of income in terms of technical skills and it can provide comfortable living. Those who are still in the conventional institutions, passing examination

that have little relevance in the modern systems, may not find opportunities of employment. And, quite naturally, they end up becoming the victims of frustration and find themselves in dilemma in this modern world. If a country owns enough technical hands with full of skills, it undoubtedly accelerates the pace of development. Technical hands cannot be unemployed. On the other hand, technical hands do not need to request others for jobs, if they start their own business; they can provide job opportunities to other educated people as well. Thus technical education helps us to reduce the problem of unemployment.

4. The Education in Textile Technology

The Textile technology is a program of study that can cover a broad range of topics, from chemistry and physics in textile production to textiles used in apparel, garments and interior design, technical, industrial and Medical Textiles, Cotton to Polymers, All natural Fibres like jute, linen, hemp, bamboo, banana to silk and in every sphere of life. It is the 2nd highest employer after agriculture and highest earnings of revenue from export market. It has the wide industrial range from agricultural field to spinning, weaving, wet processing, knitting, garment, textile machinery to Govt jobs and Corporate sectors.

It has the wide scope of the self employment and entrepreneurship. Training in textile science offers a variety of career options, including in the manufacturing and design industries. Textile Manufacturer, Textile Design Job Information, Textile Designer, Interior Designer, marketing and sales in Yarn, Fabrics and Textile Machineries.

5. The Textile College in Maharashtra

Out of 36 Degree Textile Engineering College in India, Maharashtra is having 7 Degree colleges inclusive Textile Technology & that of Textile Chemistry, 5 Diploma colleges in Textile Technology, 5 Diploma colleges in Garment and Dress Designing, 2 Colleges in Home Sc. and 1 Nift. Apart from them, there are some more Private Diploma Colleges in garment and fashion in Nasik, Latur, Aurangabad areas and all are in the control of MSBTE. The total passing students per year is approx. 1100 inclusive all. Now the Question is how many of them are employable and how many are getting employment in each year ?

6. Who gets preference in employment ?

(i) If the students are from Branded Colleges like ICT, VJTI etc. (ii) If the Alumni of that colleges is very strong and supportive. (iii) The college is having very good rapport with the Industries and that of Employers. (iv) The student himself/herself is able to impress the employer either by personal contact, through skype or telephonic or could impress during in plant training. (v) Having good knowledge in subject which the management demands. (vi) The project work performed by him/her found to be helpful by the industries. (vii) Not much choosy about the organization, it's location and salaries, nature of job and duty hours, ready to do any hard work to gain the experience. (viii) Having his/her own potential to impress the employer during face to face interview and (ix) overall impressive personality, good communication power, good writing skill, having manageable GK.

7. How to prepare the students of Textile especially in Maharashtra ?

The preparation of the Textile students in Maharashtra is not much differ from other states in India except (i) Maharashtra is Industrial rich hence easy job available. (ii) 70% of the students in any college in this state is local and 30% is from other states hence the students prefer to communicate in local language than to learn English.

I would like to suggest the followings in these aspects. (i) Although the job availabilities are not so difficult especially in Maharashtra but to prosper in future in the industries, the syllabus must be in accordance to the need of the Industries. At every 3 years, the syllabus is to be changed by the syllabus committee where the Industrial Experts including Alumni must be present. (ii) The industrial visits should be at least two in each semester where various types of industries must be covered. (iii) The vocational training must be two/three within 8 semester. (iv) There should be job assignment to each student in each semester who's marks with attendance to be taken into consideration. For example, there can be total 20 marks for the assignment where 10 can be for the subject and 10 can be for the attendance. This should be included in the over all marks in the semester. This will increase more analytical

approach, writing skills, enhance sincerity to attend the classes, and the students will be more devoted. (v) There should be some debate classes/ competition by which the speaking power in English with expression will be enhanced. (vi) The students have taken in granted that their employment is the responsibilities or their college and even the insincere students they need not to upgrade their calibre to face the competition in the job market and accordingly they should be prepared himself/herself by attending the classes, industries and in plant trainings. (vii) Let the students organise the industry visits and let them prepare the drafts of the letters to be sent to the employers so that their communication skill will be enhanced, feel the responsibilities, understand the toughnes in the job market and would understand the value of the job. (viii) The Campus Interview etc should be organised by them in coordination with the Faculty members. (ix) Let the industrial experts and Alumni visit the institution at each week to interact with the students who will explain the expectation of the industries and how to be get ready for the same. One weekly slot (say every Thursday 3 to 5 pm) can be kept ready for the same. (x) Let the students show the dreams of the brighter future and let them just not think that as they are in Maharashtra state the jobs are near their door! (xi) The students are to be aware of the name of the industries at various categories (today most of them are aware of hardly a few name of the Branded Name) so that they accept any job in any industry at any place. (xii) The most of the female students do not want to go to the far off places from their natives because of the fear of the uncertainty, lack in knowledge of that particular location (more restricted by their parents as they are totally unaware) and they want jobs of her choice especially those are from the Garment Background. Hence such students can be arranged Entrepreneurship Training so that they can start their own business in group or individually to earn their bread & butter. (xiii) It is disappointing fact that after getting good jobs in good industries through Campus or by arranging the jobs, they leave (a) because of marriage (b) Parents do not allow them to stay in far away (c) Fear of social uncertainty that "my daughter may marry any one out of my cast" at the working place (d) Fear that "If the daughter is not getting married within 24 years of her age then I will lose my social status!" (e) daughter should be a housewife than to be an employee/officer etc. Hence the female students and their parents can be counselled that "if the daughter is the self sufficient then her future is more secured." The marriage is unavoidable which is the part and parcel of the life but today, in the age of competition and looking to be Economic conditions, the female students must not leave any lucrative job that supports her family too.

8. Conclusions

- The education makes a man perfect in gaining his/her knowledge, it improves one's thought process who can differentiate between good & bad and makes one's life easy.
- The Technical education makes a man fit to earn his livelihood; his future prospects improves through his gain in skills.
- Textile Technology is a vast ocean today and their are multiple scopes to earn bread in this profession including self-employment.
- In this course, the students from the Branded colleges get preferences in the job market.
- The strong Alumni, good industrial relationship with the Institutions are also the key for the job availabilities to the future.
- The students must search and create their own jobs rather than to expect 100% jobs will be arranged by the college and put them at the industries of their liking the department, industry and location. The college should just guide them. They should be self-prepared for the jobs.
- Maharashtra State being the self-sufficient state in the Industries, the students must not neglect to communicate in good English so that they can go to other states, must have the geographical knowledges of other states and industries.
- The female students especially from the rural background feel uncertain to go to the far-off places and hence the Industries do not prefer them. They should be trained how to become self sufficient in earning their bread and butter. ■

KHADI APPAREL : A SUSTAINABLE DESIGN SOLUTION

Walia. Simarn, Research Scholar; **Kashyap. Radha,** Head of Department
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Abstract

Khadi is referred as an Indian fabric. It is also known by name 'Khaddar'. The study was to find the buying behavior and satisfaction of consumer towards ready-made garments in Khadi. The study has been conducted in Jaipur city. The sample has been selected purposively because of the easy accessibility of the respondents who are consumers for khadi apparel. The total sample size for the study has been 100. Group of 50 men and 50 women from Jaipur. Primary data has been collected through an interview schedule. The data has been done collected by an interview schedule.

Introduction

Khadi is referred as an Indian fabric. It is also known by the name 'Khaddar'. It is made by spinning the threads on an instrument known as Charkha (Tankha, 2015). During per-independence era the movement of khadi manufacturing gained momentum under the guidance of father of nation Mahatma Gandhi ji. Through ready-made garments are available in khadi, but they are not trendy and there is lack of variety the ready-made in kids wear are not available. Clothes made of 100% natural fibers are preferred. A fabric that is too thick and heavy makes the kids look tired. Itchy textures of the fabric bother the skin of kids as it is very tender. Due to less cost, easy availability, easy care and maintenance parents have been opting for polyester fabrics. The study aims to study the consumer behavior towards apparel made of khadi.

Consumer Behavior

Consumer behavior refers to a buyer's knowledge of a particular product & services which focuses on the consumes. The study explores an individual customer buying behavior and satisfaction about khadi. Customer satisfaction is the key factor for successful and depends highly on the behaviors of frontline service providers. Customers should be managed as assets, and that customers vary in their needs, preferences, and buying behavior. An effort is made to understand the awareness of consumers towards of khadi, factors influencing the buying behaviors and overall customer satisfaction towards khadi products. The study focuses on how people buy, what they buy, when they buy and why they buy.

The main objectives of the study are :

1. To find the buying behavior of consumer towards ready-made garments in Khadi.

2. To find the satisfaction of consumers towards ready-made garments in Khadi.

The main limitations are as follows :

1. Present study has been conducted only in Jaipur city.

Research Methodology

Locale : The study has been conducted in Jaipur city.

Target group : Hundred consumers of 25-50 years of age group were the respondents for survey.

Sampling method : Purposive sampling method is used to approach the respondents.

Research design : Survey method is used to collect the data.

Data collection method : The data was collected with the help of interview schedule. The schedule has three sections which are as follows :

- Section A- Demographic details of the respondent
- Section B- Questions related to buying behaviour
- Section C- Questions related to satisfaction towards khadi

Data analysis : The data analysis was done using frequency and percentage.

Results and Discussion

The demographic characteristics of the total sample was 100 respondents, 50% respondents were male and 50% respondents were female.

Table 1 : Distribution of respondents on the basis of age

Age	Frequency	Percentage
25-35	45	45.0
36-45	38	38.0
46 and above	17	17.0

Out of a total of 100 respondents 45% of them were in the age group of 25-35 years, followed by 38% who fell under the age group of 36-45 years and 17% were in the age group of 46 and above.

Table 2 : Distribution of respondents on the basis of occupation

Occupation	Frequency	Percentage
House wives	14	14.0
Government service	13	13.0
Corporate service	35	35.0
Self-employed/ professional	38	38.0

Majority of the respondents (38%) of the were in Self-employed/ professional, 35% were in corporate service while 13% were in Government service and 14% were house wives.

Table 3 : Distribution of respondents on the basis of education

Education	Frequency	Percentage
Not graduate	16	16.0
Graduate	27	27.0
Post- graduate	46	46.0
Professional qualification	11	11.0

Maximum respondents post-graduate (46%) where as 27% of respondents were graduated, it also shows that 16% were not graduated and it was noticed that only 11% of respondents were professionally qualified.

Table 4 : Distribution of respondents on the basis of family size

Income	Frequency	Percentage
0-3 lakh	51	51.0
3-5 lakh	32	32.0
5-10 lakh	9	9.0
More than 10 lakh	8	8.0

Majority of the respondents (51%) had the income between 0-3 lakh, 32% of respondents had the income between 3-5 lakh income where as 9% of respondents had the income between 5-10 lakh and 8% of respondents had the income more than 10 lakh.

The Buying behavior of respondents was also enquired to find out the purchasing khadi apparel, cost of khadi ready-made garment apparel, ranking khadi apparel.

Table 5 : Distribution of respondents on the basis of visit Khadi showrooms

visit khadi showrooms	Frequency	Percentage
Yes	61	61.0
No	39	39.0

Maximum number of respondents (61%) visit khadi showrooms regularly where as 39% of respondents do not visit khadi showrooms.

Table 6 : Distribution of respondents on the basis of reasons for purchase Khadi

Reason	Frequency	Percentage
Quality	48	48.0
Low price	29	29.0
Rebate	5	5.0
To support the rural artisans	2	2.0
Advertisement/exhibition	14	14.0
Gandhian ideology	1	1.0
Anyother	1	1.0

About 48% respondents purchase apparel Khadi on quality basis and 29% low price whereas only 1% of respondents purchase apparel Khadi to support the rural artisans, and Gandhian ideology.

Table 7 : Distribution of respondents on the basis of Reason for Purchase Khadi

Time	Frequency	Percentage
Once in 3 months	12	12.0
From 3-6 months	45	45.0
Once in a year	20	20.0
Occasionally	23	23.0

Majority of the respondents (45%) purchase khadi apparel from 3-6 months; whereas 23% said that they purchase Khadi apparel occasionally and minimum number of respondents i.e. 12% once in 3 months.

Table 8 : Distribution of respondents on the basis on cost

Period	Frequency	Percentage
Very costly	13	13.0
Costly	51	51.0
Fairly priced	36	36.0

About 51% of respondents feels that khadi apparel are costly whereas 36% of respondents states that they feel khadi apparel fairly priced.

Table 9 : Distribution of respondents on the basis of Satisfied with the Khadi products

Reasons	Fully satisfied		Partially satisfied		Not satisfied	
	(F)	%	(F)	%	(F)	%
Quality	76	76.0	22	22.0	2	2.0
Variety	27	27.0	67	67.0	6	6.0
Sizes	30	30.0	51	51.0	19	19.0
Color	23	23.0	50	50.0	27	27.0
Design	20	20.0	51	51.0	29	29.0
Package	11	11.0	58	58	31	31.0

Maximum respondents partially satisfied with variety (67%), sizes (51%), color (50%), and design (51%) package (58%) whereas quality 76% of respondents were fully satisfied with the Khadi products.

Table 10 : Distribution of the respondents on basis of level of Satisfaction

Reason	Fully satisfied		Partially satisfied		Not satisfied	
	(F)	%	(F)	%	(F)	%
Apparel	28	28.0	69	69.0	3	3.0
Price	41	41.0	5	5.0	54	54.0
Sales person in store	35	35.0	54	54.0	11	11.0

About 69% of respondents were partially satisfied with the apparel present in store whereas 28% of respondents were fully satisfied with the apparel in the store and only 3% of respondents were not satisfied with the apparel present in store Whereas 54% of respondents were not satisfied with the price paid for ready-made apparel, 41% of respondents fully satisfied with the price paid for ready-made apparel whereas only 5% of respondents partially satisfied with the price paid for ready-made apparel and 54% of respondents partially satisfied with the sales person in the store and 11% of respondents not satisfied with the sales person in the store.

Table 11 : Distribution of khadi sales

Reasons	Frequency	Percent
Reduction in price	48	48.0
Improvement in quality	32	32.0
Improved package	35	35.0
Effective advertisement	26	26.0
More varieties needed	34	34.0
Training and development of salesmen	17	17.0
Rebate for the whole year	7	7.0

About 48% of respondents want to reduction in price for improved sales, 32% wants to improvement in quality and only 7% rebate for the whole year.

Conclusions

Keeping in view the responses attained, the data collected and analyzed, the designs created and applied, it was concluded on the whole that during the study "Khadi apparel: a sustainable design solution" the need-based information collected at every level. The onset of synthetic materials has not only been destructive towards the environment, it has also had a negative economic impact on those whose livelihoods depend on the production and processing of natural fibers. The study was to find the buying behavior and satisfaction of consumer towards ready-made garments in Khadi. The results of the study revealed that majority of the respondents are satisfied with the khadi products. Reduction in price can improve the sales of khadi. High sales of khadi because of its quality.

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LIST OF DIFFERENT COMPOSITE NONWOVEN MANUFACTURING PROCESSES AND THEIR APPLICATIONS

Prof. (Dr.) Neelesh B. Timble, Ph.D(USA)NCSU, Associate Professor of Textile Technology, DKTE's Textile and Engineering Institute, Ichalkaranji, Kolhapur District Maharashtra, India

List of different composite nonwoven manufacturing processes

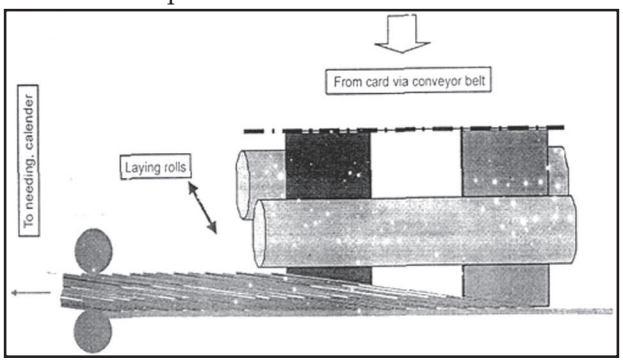
- Blending of fibers
- Multi forming (Multi card, multi forming box airlay or wet lay, multi beam spunbond and combination of different web formation methods (SMS, Coform, Other processes)
- Multi bonding (Hydroknit, Evolon)
- Laminated nonwovens (HDPE, FLAME Lamination)
- Hybrid nonwovens(vaporweb, Nanofiber based)
- Particulate composite nonwovens

Applications of different composite nonwoven manufacturing processes

- Applications of composite nonwovens made by process of blending of fibers
- Applications of composite nonwovens made by multi card process
- Applications of composite nonwovens made by multi forming box airlay or wet lay
- Applications of composite nonwovens made by SMS
- Applications of composite nonwovens made by Coform
- Applications of composite nonwovens made by Other processes
- Applications of composite nonwovens made by Hydroknit
- Applications of composite nonwovens made by Evolon
- Applications of composite nonwovens made by Laminated nonwovens (HDPE)
- Applications of composite nonwovens made by Laminated nonwovens (FLAME)
- Applications of composite nonwovens made by Laminated nonwovens
- Applications of composite nonwovens made by Hybrid
- Applications of composite nonwovens made by Hybrid (vaporweb)
- Applications of composite nonwovens made by Hybrid (Nanofiber based)
- Applications of composite nonwovens made by Particulate composite nonwovens

Applications of composite nonwovens made by process of blending of fibers

- Acquisition and distribution layer (ADL) in diapers for high loft and wicking action
- Cable-wrap

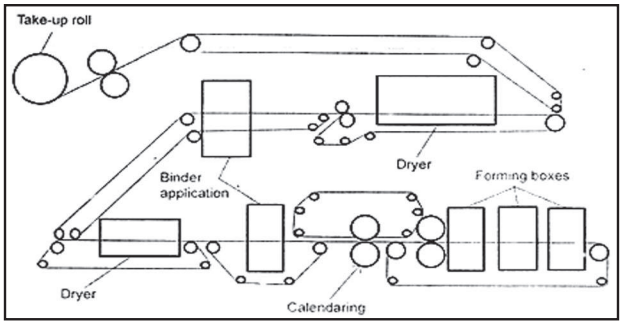


Sandwich web-laying using multi card (Source : http://www.emsgriltech.com/)

Photograph of multicard process to manufacture composite nonwovens

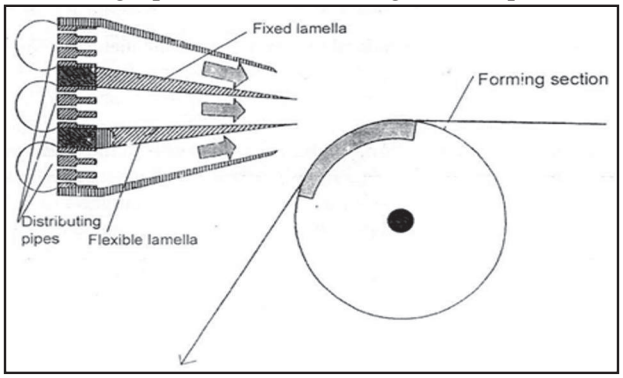
Applications of composite nonwovens made by multi card process

- Particle filtration
- Liquid absorption



Multi-forming air-laid process (Zhang et al. 2011)

Photograph of Multi Forming air laid process

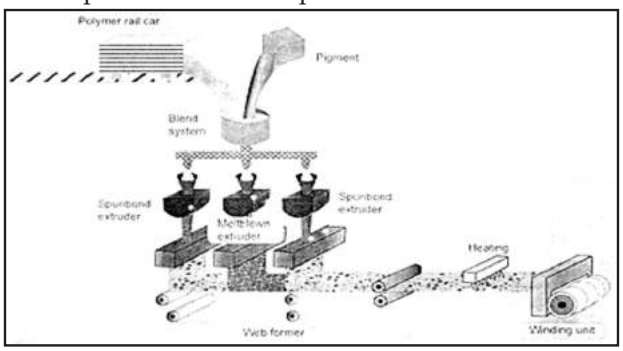


Three-layer headbox in wet-laid (Dahl 2000)

Photograph of multi forming wet laid

Applications of composite nonwovens made by multi forming box airlay or wet lay application

- Dispersible Moist Wipes

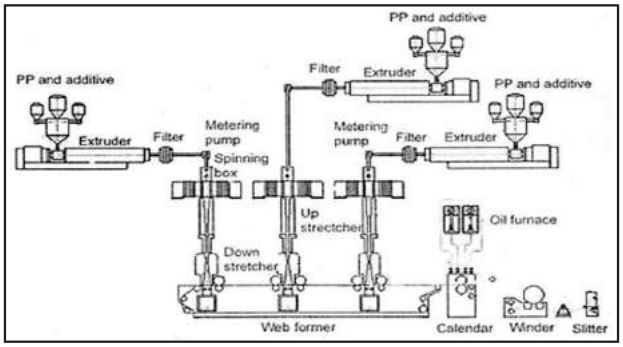


SMS production process from same spinning line
(Source : Kimberly-Clark)

Photograph of multibeamspunbonding process to manufacture composite nonwovens

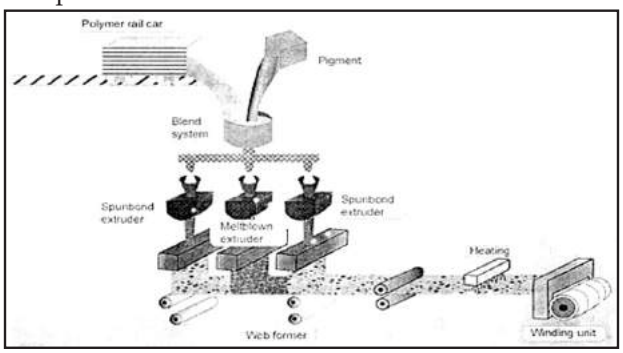
Applications of composite nonwovens made by multi beam spunbond process

- Garment
- Operation suit
- Face Mask
- Diaper
- Sanitary napkins
- Disposable Hygiene
- Shopping bag
- Wall Covering
- Table Cloth
- Bed Sheet
- Bed Spread
- Lining
- Adhesive Inter Lining
- Shoe Lining
- Protection cover
- Nursery cover



Spunbond-spunbond-spunbond production process and fabric
(Source : http://www.lynonwoven.net/sss-machine)

Photograph of SMS process for making composite nonwovens

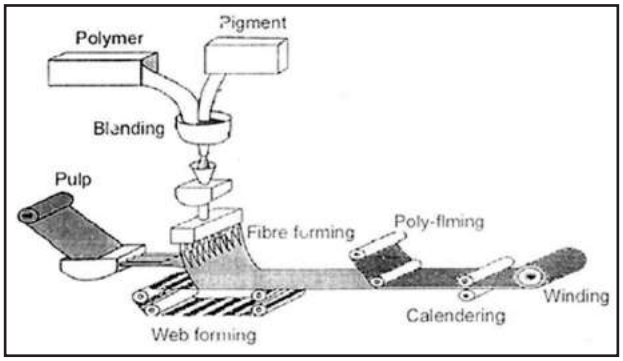


SMS production process from same spinning line
(Source : Kimberly-Clark)

Photograph of SMS production process from same spinning line

Applications of composite nonwovens made by SMS, SMMS and SSMMMSS

- Face masks
- Barrier fabrics
- Coverstock
- Sanitary products
- Packaging
- Filter media
- Protective covers
- Acoustic facings



CoForm layered composite nonwoven process
(Das & Pourdeyhimi 2014)

Photograph of Coform process of making composite nonwovens

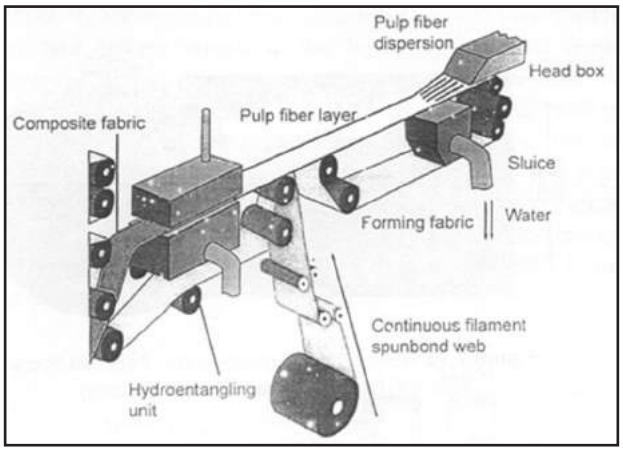
Applications of composite nonwovens made by Coform process

- Wipes
- Feminine hygiene products
- Diapers
- Adult continence

LIST OF DIFFERENT COMPOSITE NONWOVEN MANUFACTURING PROCESSES AND THEIR APPLICATIONS

Applications of composite nonwovens made by other processes

- Absorbent nonwovens

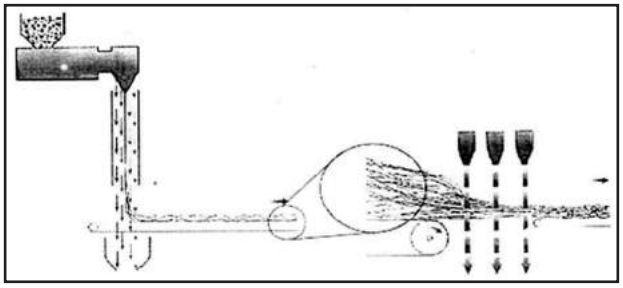


Hydroknit® integrated spunbond-spunlace process
(Source : Kimberley-Clark)

Photograph of hydroknit process

Applications of composite nonwovens made by Hydroknit process

- Paper Towel
- Paper Napkins
- Air Freshener
- Bathroom Tissue
- Dispensers
- Facial Tissue



Evolon spunlace process
(Source : http://www.freudenberg-nw.com)

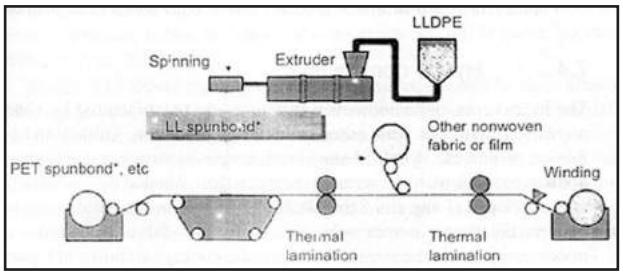
Photograph of Evolon process to manufacture composite nonwovens

Applications of composite nonwovens made by Evolon process

- Dust mite proof mattress covers
- Anti-allergy encasings
- Sports towels
- Cosmetic wipes
- Duvet covers
- Air filtration
- Digital large-format printing media for signs and advertising
- Surface preparation wipes
- Industrial cleaning wipes
- Technical packaging
- Sun protection and window treatment
- Coating and synthetic leather
- Wall coverings
- Washable incontinence pads
- Microfiber bathrobes
- Printed labels
- Tea towels

Applications of composite nonwovens made by laminated process

- Wet filtration
- Performance sail cloth
- Automotive interiors
- Furniture
- Shoes
- Garments

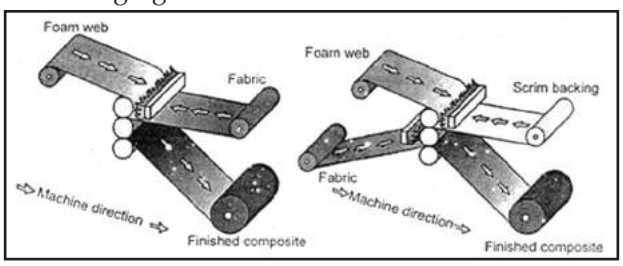


Laminated composite nonwoven structure from LDPE
(Source : http://www.idemitsu.com/)

Photograph of lamination process using LDPE

Applications of composite nonwovens made by laminated process using LDPE

- Packaging material suitable for microwave oven

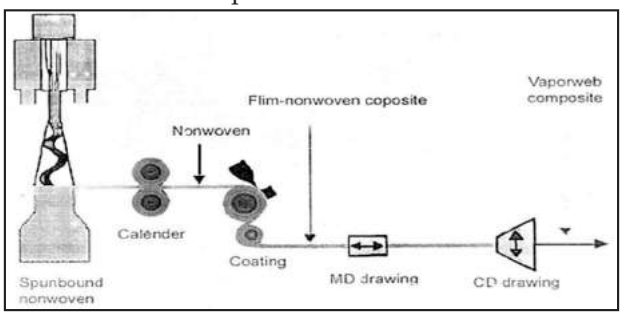


Flame-lamination process
(Source : http://www.thevitagroup.com)

Photograph of flame laminated process

Applications of composite nonwovens made by laminated process using Flame

- Laminated composites

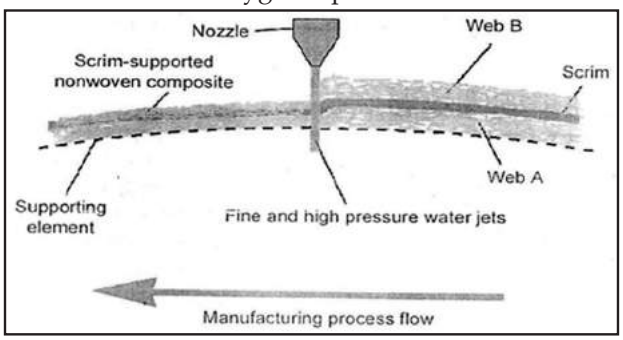


VAPORWEB process (Wilhelm et al 2002)

Photograph of composite nonwovens made by vaporweb process

Applications of composite nonwovens made by vapor web process

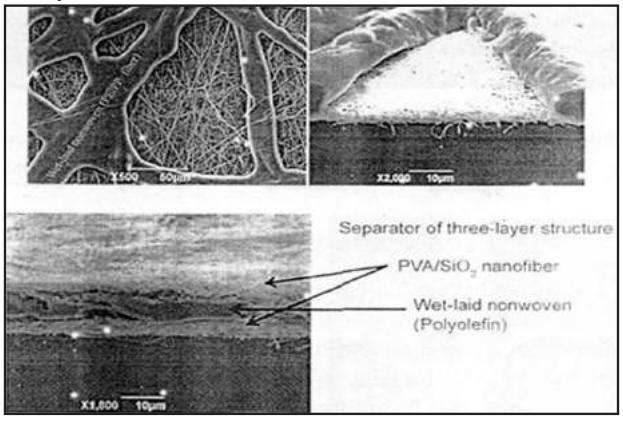
- Absorbent products for hygiene textiles
- Cover stock in hygiene products



Photograph of composite nonwovens made by hybrid nonwovens

Applications of composite nonwovens made by hybrid process

- Synthetic leather



SEM micrograph of nanofiber overlaid nonwoven
(Source : http://www.hiroseamerica.com)

SEM Photograph of nanofiber based composites

Applications of composite nonwovens made by laminated process using nanofiber based

- High performance filter media (air and liquid)
- Li-Ion battery separator with polymeric / ceramic composite nanofiber technology
- Tissue engineering

Applications of composite nonwovens made by Particulate composite nonwovens

- Protective garments
- Skin contamination

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Mills association demands for rollback of duty on cotton imports

The Southern India Mills' Association has sought a roll-back of the 10% customs duty on cotton imports announced in the Union Budget, as it would escalate the cost of garments and result in higher import of garments, especially from countries such as Bangladesh and Sri Lanka.

Ashwin Chandran, chairman of Southern India Mills' Association, said that India imports mainly extra-long staple (ELS) cotton, organic cotton, contamination-free cotton and sustainable cotton. The production of these varieties is either nil or meagre in India.

Indian mills consume about 15 lakh bales of ELS cotton annually as against the domestic production of about five lakh bales, Mr. Chandran said.

India is a major importer of Pima and Giza cotton varieties.

The country imports about 33% of total Pima exports from the U.S. and 45% of Giza cotton from Egypt.

Several garment exporters in the MSME segment do not have capacities to make yarn from such premium cotton varieties and buy yarn from the domestic mills.

Such exporters will not get Advance Authorisation Scheme benefits that the integrated mills that import cotton can avail of.

Thus, Indian products made of imported cotton will become expensive in the international market, which will give competitors an edge.

In the case of the domestic market, the cost of garments made of imported cotton will increase, leading to higher import of garments, he said. ■

2.9m or 3.5m working width – less space requirement – better blending

Better blending from the beginning: **BO-P**

The new portal bale opener allows up to 50% more working width and 25 to 40% better blending. At the same time, the portal concept saves floor space: The **BO-P** can also be placed close to a wall because the bale lay-down area is freely accessible.

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New products GRADO by GBTL launches in an auspicious occasion of conference in Shimla

The leading manufacturer of premium fabrics, recently organized a conference to launch myriad new product offerings at the Shimla conference at Manla Homes Resort.

This gathering was fuelled by the brand in hope of a brighter 2021 and to launch their new collection.

The conference showcased a brilliant new range of products which included, ALSACE - 20% wool tweed for jacketing and STREEZA - 4-way stretch fabric. Apart from these two best sellers there was a range of products in different colours and designs that were well appreciated. The conference witnessed top dealers from North, assembling over the days.

The dealers and retailers were very optimistic about the range and had come to Shimla to show their solidarity towards the brand, standing from strength to strength through challenging times. The brand has a very committed and dedicated dealer network and over the days in the Shimla conference a lot of new strategies and roll out plans for the brand were discussed.

The conference ended with a renewed enthusiasm to work hard towards building more market share and increasing retail footprint.

Manish Shukla, CMO of GRADO by GBTL, said, "We are overwhelmed by the response from dealers participating in an outstation conference during these trying times, and how the customers are optimistic about the products. This conference has successfully given us a platform to not only showcase a new product collection to the retailers, but also to strengthen and foster a relationship between the management and its success partners (dealers and retailers). With such interesting new products making their place in the brands product basket, GRADO by GBTL is all set grow its market share at a very fast rate."

About GRADO

The brand GRADO by GBTL (erstwhile Grasim) has an intent to offer the entire product basket to the consumers - ranging from synthetics to cottons, under the same brand umbrella. GRADO had one of the greatest celebrity of Indian cinema, Mr. Amitabh Bachchan as the Brand Ambassador. GRADO caters to maximum product segments and across a range of price; so there is comfort and style for everyone. The product positioning and price points plays an important role in increasing potential for trade thereby, increasing not only the retail size, but stirring the consumer thought set too.

CORPORATE NEWS

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In lieu of the Union Budget 2021-22 announcement, here's a quote from Mr. Rajendra Agarwal, Managing Director, Donear Industries Ltd. expressed the views on role of manufacturing sector to achieve the goal of 5 trillion economy

"Due to the Covid-19 pandemic, like many other industries, the textile industry too underwent numerous challenges, impacting demand and supply, due to the change in consumer buying behaviour and the consumption pattern. With the vision of establishing a USD 5 trillion economy, the manufacturing sector will have to grow in double digits and become a part of the global supply chain, as highlighted by the Hon'ble Finance Minister. Taking the above into consideration, the Production Linked Incentive (PLI) Scheme had been launched. In addition to this, the budget has certainly opened up avenues to encourage global competition, attract large investments and boost employment generation via the launch of Mega Investment Textiles Park (MITRA), wherein, seven Textile parks will be established over the course of 3 years. Emphasising the Indian government's initiative of Atmanirbhar Bharat, and with imports being drastically cut down, there is less opportunity for new entrants, which will in turn strengthen the position of local players (like us) who can fill these niches.

Mr. Rajendra Agarwal, Managing Director, Donear Industries Ltd.

Additionally, the Union Budget 2021 also announced the bringing of nylon chain on par with polyester and other man-made fibers, reducing BCD rates on caprolactam, nylon chips and nylon fiber & yarn to 5%, aiding the textile industry.

Therefore, 2021-22 seems to be the year of revival for the textile industry as there are good tidings expected for the textile industry from manufacturing, consumption, employment generation and from a boosting demand standpoint."

About Donear Industries Limited

Donear Industries Limited is well-recognized in India and outside as one of the best-quality product makers and innovators, who have been in the business for 40+ years. The promoters treat textiles as the Group's core business and have been putting best efforts to grow year on year. It has production capacity of around 55 lakh meters per month with latest technologies and machinery at Surat. Apart from being a leader in India, Donear also has a strong presence in 30+ countries globally. With a comprehensive product basket, the conglomerate has different textile brands under its portfolio including Donear, GBTL (formerly GRASIM Suitings), Graviera, OCM to name a few; and D'Cot & Donear NXG apparel brands with positive cash flow.

Kindly let us know should you require any further details or would be interested in interacting with Mr. Rajendra Agarwal, Managing Director, Donear Industries Ltd., we will be happy to assist.

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Italian Textile Machinery : Orders intaked still does not revive in fourth quarter 2020

The index of orders intake for Italian textile machinery compiled by ACIMIT, the Association of Italian Textile Machinery Manufacturers, for the period from October-December 2020 was down by 5% compared to the same period in 2019. The index value remained at 90.0 points (2015 basis = 100).

The negative performing trend both abroad and in Italy has weighed on the overall result. On foreign markets, orders intake recorded a 5% decline, while the domestic market recorded a decline of 6% on the fourth quarter of 2019.

On an annual basis, the total index declined by 26% compared to 2019. This result is primarily due to a marked downsizing in orders intake for the first half of the year, which was not entirely balanced by the progressive recovery in the last two quarters of 2020. The decrease amounted to 25% abroad and 30% on the domestic side.

ACIMIT president Alessandro Zucchi commented that "Severe travel restrictions along with the cancellation of most trade fairs, as evident consequences of the pandemic, have heavily influenced business operations, already compromised by a general slowdown in investments in the textile sector."

Zucchi added that "A deep sense of uncertainty also affects 2021, with no signs of a recovery in this first half of the year. The vaccination campaign has begun slowly, jeopardizing the restoring of safety conditions that would otherwise enable technicians and salesmen to travel. We do expect a partial recovery, but only as of the second half of the year."

In the meantime, ITMA 2023 - the world's foremost textile machinery trade show, scheduled to be held in Milan - was officially launched. Following the success of 2015, Milan is once again ready to host the essential event that features a high level of innovation on show by exhibiting manufacturers. "I won't hide how proud our

CORPORATE NEWS

Association and indeed all Italian textile machinery manufacturers are to be able to host the event in Italy," states ACIMIT's president, "Although still a long way off, ITMA 2023 is a goal towards which our companies are already working, allowing us to speed up the process of continuous innovation that is a hallmark of Italy's textile machinery industry."

For further information, please contact :
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Story ideas on behalf of Liva House of Aditya Birla Group and Spykar Lifestyles

Idea 1 : All the glitters is not gold, but can be sustainable!

Background : Festival seasons no wonder brings up the aura, positive vibes and cheering gestures. As we Indians consider this time to be very auspicious, we make sure to tune into every religious and ethical practice to ensure the good well of our family and friends. Since the pandemic we have become concerned about health and livelihood, but as we crawling nearer to the largest shopping time of the years it's also the time to bring in the power of sustainability in your wardrobe this festive season. As we prefer to add up more glitter and shine on to stay up in festive parties you can effortlessly swap the choices of fabric from Polyester, synthetic, cotton to Viscose which is biodegradable, eco-friendly, and breathable can help us build up a better fashion future and a great move towards living light and modest!

Talk points :

- Tips to build sustainable closet during the festive season
- Tips to wear glitters and chemical dyes well.
- Easy styling tips for the Festive season

Idea 2 : A millennial girl's fashion choice for the Festive Season

Background : It's the perfect time for girls to upgrade their arsenal with fusion wear and ethnic dresses to avoid the last-minute chaos. With the number of get-togethers, parties and puja invite coming in — of course for small gatherings due to the pandemic, there is a need to upgrade your style quotient with a twist of Indo-western in your appearance. The ethnic trend this season is mostly about intricate threadworks, embracing cuts, soft silhouettes and subtle details of beadworks and sequins to add that warmth of festival to your look. The new age ethnic styles are high on breathable fabrics like viscose, modal, and sheer elegance which makes you adore the refreshing look for the season. Nelson Jaffery, Head of Design, Liva shares some of the most fashionably festive trends for this Diwali season.

- Kurta Sets
- Flowing Maxi dresses
- Pastel Kurtis
- Elegance has a new shade

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Big changer in fashion trends over the years

Fashion Trends that are sure to make a comeback

Fashion trends have changed dramaticaly over the years. The very nature of fashion trends is to come and go. Jumpsuits, for example, have gone in and out of style since the '70s, and overalls have made a comeback since becoming popular in the '90s. Despite this constant flux, there's always at least one trend that takes over the fashion world every year. In the 1950's summer attire and high waisted pants was extremely popular while in the 1960's matching coats and dresses formed the perfect ensemble. In the 1970's the disco style like bell bottom pants and platform shoes started to emerge in the fashion industry. Nelson Jaffery, Head of Design Liva is happy to share inputs over the few trends of the past that would be making a quick return in the fashion industry in the 2020's.

- Jumpsuits
- Ripped jeans and leather — 1970's
- Bold, bright colors were fashionable at the start of the '80s and Go to colour combination of the 1980's
- 1990s jackets, coats, and platform shoes became a staple
- Halter tops and denims became a trend in the 2000's

Styling and wardrobe inspirations you can draw from princess Diana!

With the popularity of Netflix's latest season of "The Crown", everyone has been admiring Princess Diana's style, elegance and girl next door charm. The 90's fashion will definitely be making a comeback this, so take inspiration from the Princess herself. Nelson Jaffery, Head of Design Liva is happy to share inputs on the same.

- Oversized Hoodies with cycling shorts
- Mom jeans with cropped tops
- Oversized Shirts
- Elegant black dress
- Statement jackets with pencil skirts

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Key role played by Ring Travellers

Forces Acting on Ring Travellers

Traveller in ring spinning system is the smallest part, but plays vital role in each and every stage of spinning process including production and quality. Before going for detail discussions, we should know the functions of Traveller are

- To provide twist to the yarn
- To provide yarn tension
- To wind the yarn on the cop

The major parts and parameters involved with the performance of Traveller are ring, spindle, cop, anti-balloon control ring, Traveller number, spindle speed, count and material spun. Apart from these, the mechanical and thermal load on Traveller is majority influences the performances by various forces acting on Traveller. The following are the forces acting on Traveller.

Gravitational Force (Fg) : This is the force of gravity, with which the earth by the weight of the Traveller. **Fg = m × g,** where g = 9.8 N/kg, and m = mass (in kg). The force is due to the weight of the Traveller Towards Centre of Gravity.

Frictional Force (Ff) : The friction force is the force exerted by a surface as Traveller moves across it or makes an effort to move across it. Friction results from the ring and Traveller surfaces being pressed together closely, causing intermolecular attractive forces between molecules of different surfaces. **Ff = μ × Fn,** The Force acts between ring and Traveller against the direction of Traveller.

Air Resistance Force (Fa) : The air resistance is the force often observed to oppose the motion of Traveller. It is the force between air and Traveller, that is against the direction Traveller which moves.

Normal Force (Fn) : The normal force is the support force applied on the objective that is in contact with another stable object. On occasions, a normal force is exerted horizontally between two objects that are in contact with each other. The force against frictional forces and air resistance force, that is towards the direction of Traveller.

Tension Force (Ft) : The tension force is transmitted through the yarn, when it is pulled tight by forces acting from opposite ends. The tension force is directed alogn the length of the yarn and pulls equally on the objects on the opposite ends of the yarn. The force created by the yarn that is towards the direction Traveller.

Centrifugal Force (Fc) : A force is a push or a pull on a Traveller from its interaction with ring. Rather, centrifugal force is the result of inertia, essentially for Traveller movign in a circle. The Force created by the Traveller due to the from its centre of rotating path is always away from the centre of Traveller moving circle. **Fc = m ɯ² R**, m = mass of The Traveller, ɯ = angular velocity (2n/60), R = radius of ring.

Tangential Force (Fw) : A force which acts on a moving body in the direction of a tangent to the path of the body, its effect being to increase or

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diminish the velocity distinguished from a normal force, which acts at right angles to the tangent and changes the direction of the motion without changing the velocity. The force in the yarn between Traveller and cop is created due to the winding tension of the yarn and always acts tangentially to the circumference of the cop.

All these forces should be balanced during running by the effect of main parameters such as Traveller weight, balloon size, spindle speed, yarn count etc on the spinning tension.

Feedback from the Readers

How to control Hairiness in Spinning ? Share your experiences with case studies with the improvements achieved practically.

Hairiness is defined by the quantity of freely moving fibres projecting from the base yarn. Raw material and mixing is one of the major criteria to decide the final Hairiness of yarn. Apart from this, the following machine, process and parameters to be considered to reduce the Hairiness.

In comber SFC(N) should be in below 14. In speed frmae, roving hairiness should be controlled by suitable condenser and spacer. Damaged condenser should be replaced. Proper top arm load, suitable false twister, flyer and finger conditions should be maintained. Roving breakage should be maintained below one.

In ring frame, roving guide centering, roving traverse setting, top and bottom apron life, cots shore hardness and RI value of cots, top arm load, lappet hook, Anti balloon control ring conditions, speed pattern, rings centering and cop diameter should be maintained properly.

Mr. M.S. Nagarajan, GM, Ozone PB Spintex Ltd, Bavala, Gujarat

Hairiness is measured in two different methods. 1. User Hairiness index : This is the common method followed in India, The Hairiness index H corresponds to the total length of protruding fibers within the measurement field of 1CM length of the yarn. 2. Zweigle Hairiness S3 value : This Zweigle Hairiness measuring S3 gives the number of protruding fibers more than 3MM in length in a measurement length of one meter of the yarn. UT-6 can provide the futures of both oh sensor and hl sensor - Hairiness index and S3 value. Hairiness is another serious major fault affecting the appearance of the fabric. Higher Hairiness causes irregular dye pickup to a very large extent. For a good knitting, the Hairiness should be around Uster 25% level. To reduce Hairiness following steps should be taken.

- Short fibre content should not be allowed to increase after each process
- Combed yarn has lower yarn Hairiness because of extraction of short fibers by the comber
- Finer the roving hank, lower the Hairiness, higher the roving TM, lower the Hairiness
- Higher roving bobbin content will increase the Hairiness
- Proper ring and Traveller combination to tbe ensured, lighter Travellers will increase Hairiness
- If the ring life more than 6 years, Hairiness will increase, ring rail jerk should be avoided
- Scheduled replacement of Travellers and rings will control Hairiness
- Usage of soft waste more than 2.5% in mixing to be avoided.

Mr. N. Venkat, GM, Dharti Spinning Mill Pvt Ltd., Nasitpar, Gujarat

The following are the influencing criteria of Hairiness

- Higher speed will increase Hairiness, keep Low and optimum speed
- Heavier Traveller, Higher bow Height Traveller can reduce Hairiness
- Narrow the spacer is draft resistant, wider spacer will reduce the Hairiness
- When ring life increases, Hairiness will increase substantially
- Increase of Traveller change days will increase Hairiness, so set the changing schedule suitably
- RH below 48% will given un control fiber, so always maintain around 55%

Mr. K.T. Srinivasan, Manager, Premier Mills Limited, Pulankinar, Tamilnadu

While yarn produced from stable fibers, the protruding fibers from the yarn body called as Hairiness, which will disturb subsequent process. We can measure the Hairiness by two units. Hairiness index - corresponds to total length of protruding fibers length of 1CM. Number of protruding fibers from yarn body to 1MM to 15MM length like S1 MM to S15 MM. By process Higher short fibre removal in comber, slightly higher roving twist and finer roving hank, optimum Autoconer drum speed, optimum tension in Autoconer.

- Higher TPI - Lower Hairiness and vice versa and maximum, possible TPI to be given according to requirement
- Higher spindle speed - More Hairiness and vice versa, speed pattern to be done according to raw material and working performance
- Higher size Spacers - Low Hairiness. According to the count, Roving hank & TPI, Break draft.
- Ring diameter & lift, Lower ring diameter and Lift, Lower Hairiness & vice versa, Minimum possible ring diameter and lift to be selected
- Heavier Traveller - Less Hairiness, for hosiery count slightly higher bow height Traveller to be selected
- Cop bottom - Higher Hairiness, Cop Middle - Average Hairiness, Cop Top - Lower Hairiness
- Temperature and RH - Higher temperature and Lower RH - Higher Hairiness. Around 55-58 RH% & Temperature 32-33 deg Celsius may given good results for Shankar 6 cotton. It varied accordingly raw material and count spun.
- Cots shore hardness, Lower hardness - Lower Hairiness, mainly in carded count 63deg shore hardness cots give lower Hairiness than 70 deg cots.

Mr. S. Murugaraj, Quality Manager, Vaibhav Ginning & Spinning Mills, Rajkot, Gujarat

To reduce Hairiness following steps should be taken care

- Mixing of cotton with wide variations should be avoided
- Higher SFC is one of the reasons for Hairiness
- Coarser micronaire and more noils mixing should be avoided
- Use maximum of 3 to 5% soft waste in mixing. Excess will create fibre rupture
- All beating points to be ensured to avoid fibre rupture
- Coils/inch as per norms & avoid overlapping in simplex
- Optimum speed & set optimum top arm pressure in all stages to be set
- Optimum draft in all process without affecting performance
- Minimum size spacer without affecting performance
- Correct size Traveller number, shape & rings life to be ensured

Mr. R. Jayaramraj, Dy. General Manager, PBM Polytex Limited, Petlad, Gujarat

The following points to be taken care to control the Hairiness in spinning

- Proper selection of a Traveller, heavier Traveller and higher bow height will reduce Hairiness
- If the spinning triangle is larger, Hairiness will also high. By adopting compact system, the triangle can be reduced
- If Traveller is not changed after reaches its running kilometers, which will create Hairiness
- Poor ring condition will also create Hairiness
- Lower RH% will create static electricity, it will deflect the fibers and create Hairiness
- Lower TPI will give hairy yarn
- More short fiber content will create Hairiness
- Using of floating condenser in simplex will result in less Hairiness

Mr. S. Kather Mohideen, FM, Poigai Spinners India P Ltd., Aravakurichi

Traveller has great impact on yarn quality specially Hairiness. Yarn quality varies with different Traveller number

- High contact pressure up to 35 N/MM^2 is generated between the Ring & Traveller during winding
- Higher spindle speed, higher the Hairiness & increase in roving twist results in lower the yarn Hairiness
- Higher the draft before ring frame, less Hairiness. smaller the roving package, less Hairiness
- Greater degree of Hairiness was observed with Elliptical Travellers Anti-wedge rings
- Improper ring, lappet, ABC centering & spindle eccentricity leads to increase in Hairiness
- 10 to 15% better results achieved with U1 UL UDR 7/0 Ruby is suitable for 41/1 ne carded warp than EI1 UDR 8/0 Ruby interims of U%, Hairiness, IMP & end breakage

Mr. Raviraj Patil, Production Manager, Girnar Spintex Industries Ltd, Kolhapur

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EXPORT PROSPECTS AND MARKETS

Gujarat textile industry witnesses encouraging export demand

After an increase in purchases by domestic buyers, the textile industry in Gujarat is now witnessing encouraging export demand from Europe, the US, Australia and New Zealand. The textile industry went through a tough period from April to July 2020 following the Covid-19.

Now, however, demand is high on both the domestic and international fronts.

"From August, textile units started functioning again amid scattered orders from domestic buyers. By Diwali, most textile manufacturers got many orders from all across the country. Not only were manufacturers able to exhaust unsold inventory, but also the entire textile value chain, especially in Ahmedbad and Surat, experienced unprecedented business opportunities," Gaurang Bhagat, presieent of the Ahmedabad-based New Cloth Market, said.

He said that from December 2020, home textile, cotton and synthetic fabric manufacturers started getting exports orders too. Bhagat, who is also the trade committee chairman of the Gujarat Chamber of Commerce & Industry (GCCI), claimed that some importers from the US, Europe, Australia and New Zealand have decided to source textiles from Indian suppliers instead of China, Pakistan and Turkey. ❐

Export incentives for cotton, yarn to lower govt's purchase burden

Amid slowing global demand and falling prices in the domestic markets, the Cotton Association of India (CAI) has sought export incentive for cotton fibre and yarn so as to prevent additional procurement burden on the government.

Atul Ganatra, President, CAI, informed that the exports have been badly hit due to economic slowdown in key markets such as Bangladesh and Indonesia. "Even though our cotton is the cheapest in the international market, exports are not taking off as expected. We believe the government should offer export incentive for cotton and yarn to encourage exports from India," Ganatra said.

He further informed that in the current circumstances, India's cotton exports are not likely to exceed 50 lakh bales, which is nearly same as last year.

The CAI held its 98th Annual General Meeting (AGM) through online mode, where trade members discussed the cotton scenario. At the AGM, Ganatra was re-elected as the President of CAI for the fourth time in a row.

In his address to the members, Ganatra stated that the Minimum Support Price (MSP) is important to provide price support to farmers to prevent them from distress sales in the event of severely low prices. "However, the burden on the government exchequer can be minimised by incentivising exports of cotton from India, which will eventually enable farmers to realise competitive prices for their produce like their counterparts in other countries in the US, Australia, Brazil, etc."

"Indian cotton is the cheapest cotton in the world and hence, there is a tremendous scope of improving export performance of the country," he added.

Ganatra also underlined the Covid-19 impact on business which saw demand destruction due to lockdown and subsequent economic impact.

"Although production of cotton during the 2019-20 crop year was higher by over 15 per cent to 360 lakh bales from 312 lakh bales in the previous year, demand was drastially down by about 19.75 per cent to 250 lakh bales in 2019-20," he said adding that the Cotton Corporation of India (CCI) will intervene with procurements through a massive support price operation. Ganatra also stated that the government has constantly increased the Minimum Support Price (MSP) for cotton over the past three years.

"During the last three years, the government has increased the MSP of GUJ ICS 105 29mm (Shanker-6 variety) by over 33 per cent cumulatively," he added.

Last year, CCI had purchased 115 lakh bales, whereas this year Ganatra said the indications are that the Centre has set a target to procure about 125 lakh bales, of which about 60 per cent of 70 lakh bales is believed to have already been procured till December 27.

Ganatra added that the far-reaching impacts of novel coronavirus have severely impacted cotton business and has had a disastrous effect on every link in the cotton and textile value chain. ❐

Bangladesh asked India to reconsider anti-dumping duties on Jute imports

Bangladesh has asked India to reconsider anti-dumping and anti-circumvention duties imposed on jute and jute cloth imports from the country and also

said that New Delhi should inform before imposing an export ban or restrictions on essential commodities.

"The government has closed all government-owned jute mills. We (India and Bangladesh) have a long history of trade cooperation. Such detrimental measures dampened confidence of business and affected trade," said Bangladesh Commerce Minister Tipu Munshi at an India-Bangladesh Digital Conference on Agriculture Sector, organised by CIT recently.

Responding to the request for prior information on export restrictions on essential commodities, Commerce & Industry Minister Piyush Goyal assured his Bangladeshi counterpart that India was taking steps to address the issue by creation of adequate buffer stocks and increasing the area of cultivation of products such as onion and potatoes.

Munshi said a recent notification by the Ministry of Finance in India authorising Customs officials to ask for documents for imports to determine whether value addition criteria had been met and denying preferential duty (under a trade pact) was creating problems. "Issuance of certificate of origin for preferential duty is guided by the ROO (rules of origin) of the agreement and the designated issuing authority of the export country issues it. The second check of origin is not consistent with the provisions of the agreement and has started affecting trade negatively," he said.

Goyal said both governments should set high benchmarks on how to capture a larger global share in textiles. "We both have apparel and textile exports together aggregating $67 billion. We should aspire to expand that five-fold so that we can provide jobs, increase earnings from international trade and support the development of economies of both countries," he said.

On agriculture, Goyal said it could have a game-changing potential for the two countries. "Bilateral cooperation in this sector can pave the way to overcome economic challenges. The agriculture sector has huge socio-economic dimensions," he said. ❐

Cotton textile may touch to last year's level

Cotton textile exports for the year 2020-2021 are expected to match last year's level.

"Overall cotton textile and clothing exports are showing signs of positive growth," said Siddhartha Rajagopal, executive director of the Cotton Textiles Export Promotion Council. "The industry hopes for 8% to 10% growth in the coming months to complete the financial year with exports at the same level as last year," Mr. Rajagopal added.

He pointed out that according to the quick estimates released by the Ministry of Commerce, cotton textile exports grew 8.54% to $869 million in November from a year earlier. Readymade garment exports stood at $1,043 million compared with $1,056 million lst November. Exports of cotton textiles in the April-November period declined 12.7%. Mr. Rajagopal attributed this to the slump in expors in April and May this year.

Cotton home-made textiles and yarn were doing well, he said.

A. Sakthivel, chairman, Apparel Export Promotion Council, said garment exports in September and October were good and in November, it was almost equal to the level seen in the year earlier period.

"We are getting orders and hope for growth in exports in the coming months. The orders are good for medical textiles and from the regular markets." ❐

Korean Cos show keen interest on Indian Cotton

South Korean companies are looking to buy organic cotton, leather goods and handicrafts from India, while companies here have shown interest in Korean toys and cosmetics, as both countries look at alternatives to imports from China.

Jeonbuk Business Centre, a business-to-business trade promotion agency launched early this year to promote India-Korea trade, said it was getting more than 20 inquiries daily from Korean companies seeking to buy industrial items and organic products from India amid the Covid-19 pandemic.

"Korea was buying organic fabric from China, but now it is looking at India. Handicrafts and leather are the other categories of goods," said Seo Youngdoo, official spokesperson of Jeonbuk Business Centre.

On the other hand, Indian companies are making inquiries regarding cosmetics, interior items and toys from Korea as an alternative to China from where it imports a majority of toys.

India imported goods worth $15.65 billion in financial year 2020 from South Korea while exports were $4.84 billion. Mineral fuels, cereals, iron and steel were the major export items, while it imported automobile parts, telecommunication equipment, hot rolled iron products, petroleum refined products, base lubricating oils, mechanical applicances, electrical machinery, and iron and steel products.

On the impact of the virus outbreak on bilateral trade, he said a few sectors like education, food, automobiles and telecom were among the least impacted, but sectors comprising small and medium-sized companies have been hit. ■

Turkey — India Business Partnership Meet

15-26 February 2021

Explore Business Partnerships in Machine Design & Manufacturing

A Turkey - India Business Partnership Meet is being held 'virtually' from the 15th to 26th of February 2021. Some of biggest Turkish companies would be participating.

M/s GEM, a leading Machine Design and Manufacturing company, will be part of the delegation.

The meetings will be held online on Zoom and you can do business with Turkey in a virtual environment.

The brief profile of M/s GEM is enumerated below :

S. No.	Company Name	Website	Main Products
1	GEM	https://delegations.tim.org.tr/event/india2021/company/gem	• Machining parts production • Moulds • special purpose equipment • fixtures • customized handling systems • automated assembly equipment and steel constructions • Turnkey solutions for the white appliance sector • Heating & Ventilation • Automotive, plastic, pharmaceutical sectors and various type of special mechanical projects in general

In order to help us fix bespoke one-on-one meetings for you, we request you to kindly register at https://delegations.tim.org.tr/event/india-2021

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Webinar on "Will year 2021 be a game changer for the textile industry"

Saturday, 6th February 2021 from 11.a.m to 01.00 p.m.

The Textile Association (India), Mumbai Unit has organised a live Webinar on Saturday, 6th February 2021 from 11.00 a.m. to 01.00 p.m. The theme of the Webinar is "Will year 2021 be a game changer for the textile industry?" Participants have been able to interact with the experts from the operational field.

The following experts have expressed their views on this interesting topic and will be very informative for all of you.

MODERATOR

Mr. Rajiv Ranjan, Former ED & CEO, Hindoostan Mills Ltd. (Thackersey Group)

EXPERT SPEAKERS

1. Mr. A. A. Bambardekar, Works Director, Raymond Limited (Textile Division-Vapi)
2. Mr. R. K. Vij, Advisor, Indo Rama Synthetics Ltd.
3. Mr. Navin P. Agrawal, Vice President, A. T. E. Enterprises Pvt. Ltd.
4. Mr. T. K. Washim Ahamed, Head -Business Development, SP Apparels (Retail Division), Bangalore
5. Mr. Minesh V. Adhvaryu, Director, Kushal Textile Institute
6. Dr. Anup Rakshit, Executive Director, Indian Technical Textile Association (ITTA)

All Textile community was requested to register in advance for this Webinar by clicking on the following link.

Registration Link: https://us02web.zoom.us/meeting/register/tZMkc-6qpzMvE9UJFXEbQPFxUIgdfCQ_gZF5

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Trade Fairs scheduled at the Bombay Exhibition Centre in March pushed ahead

Mumbai editions of Gartex Texprocess India and Screen Print India pushed ahead due to venue inaccessibility in March

On account of the developments around the COVID-19 vaccine roll out plan which has seen jumbo covid care centres doubling up as vaccination centres, trade fairs scheduled at the Bombay Exhibition Centre in March have been pushed ahead. Currently in discussion with venue authorities, the organisers intend to announce new dates for the Mumbai editions of Gartex Texprocess India and Screen Print India in the coming weeks. The Delhi edition continues to be on schedule for the two fairs.

With the rapid roll-out of vaccines in India's fight against Covid-19, business sentiment in 2021 is upbeat together with enhanced resumption of economic activities. However, inpreparation for the upcoming vaccination drives, mega facilities such as NESCO (Bombay Exhibition Centre, in Goregaon) is expected to be restructured as a state-run vaccination centre. This makes the venue inaccessible for large-scale trade showsin the month of March. In view of the recent developments, the organisers - Messe Frankfurt Trade Fairs India Pvt Ltd and MEX Exhibitions Pvt Ltd, have had to act swiftly to reschedule the launch of its upcoming fair Gartex Texprocess India which was scheduled to open its doors in Mumbai,this March.

Messe Frankfurt India additionally shared that the Mumbai edition of Screen Print India will also be rescheduled. As companies gear up for business revival, the organisers shared that a final decision will be taken in consultation with venue operators to host the show in the first half of the year, as soon as the venue is made safely accessible.

Mr Raj Manek, Executive Director & Board Member, Messe Frankfurt Asia Holdings Ltd: "With positivity returning in the trade community amidst the positive news of the vaccine roll out, our goal ahead is clear - to create a safe and conducive environment for business exchange. We're working in close co-operation with venue authorities and service providers on next steps to implement a comprehensive safety concept, under the 'MFI Safe Connect' standards."

Mr Gaurav Juneja, Director, MEX Exhibitions Pvt Ltd added: "With the start of local vaccination drives and gradual scaling back of lockdown, we see confidence returning in the market. Gartex Texprocess India will be a catalyst in the recovery of trade momentum for this sector and its new hybrid format will go a step ahead to ensure onsite exhibitors can increase their product and brand exposure and match with potential clients through their digital presence. We are glad to have the support fromthe industry and our exhibitors who's interests are at the center of this decision; and our efforts are now focused on finalising the dates and meeting the safety imperatives."

Exhibitions: A shot in the arm for business revival

While 2020 has undoubtedly been a challenging year bringing economic activity to a near standstill, there is a clear indication of optimism among India companieswith news of vaccination drives starting locally. Re-starting the business year under the new normal, the 2021 edition of the fairs will undoubtedly be marked in trade calendars as threedays of face-to-face business networking – for meeting buyers and suppliers in-person, closing deals and sourcing solutions for the 'new normal' demand.

"As the Indian economy gears up for the 'big business reset', the exhibition industry is ready to provide a shot in the arm to businesses by bringing buyers and sellers back together to revive trade discussions." added Mr Manek. Through Gartex Texprocess India's new hybrid format and its co-location with the premier fair for screen, textile, sublimation and digital printing technologies – Screen Print India, the platform aims to bring the entire textile value chaintogether and will be of key business significance for the textile and printing sectors.

Delhi editions on schedule

Slated to take place in the second half of the year, the Delhi edition of the two fairs continue to be on schedule from 6–8 August 2021 at Pragati Maidan in New Delhi. The targeted business matchmakingthrough the integrated virtual and physical formats, together with the MFISafeConnectstandards will enhance the exhibition experience and make the fairs a "crucial meeting point" in 2021.

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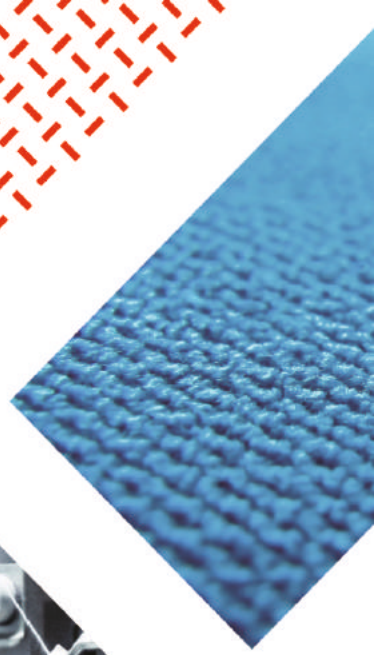

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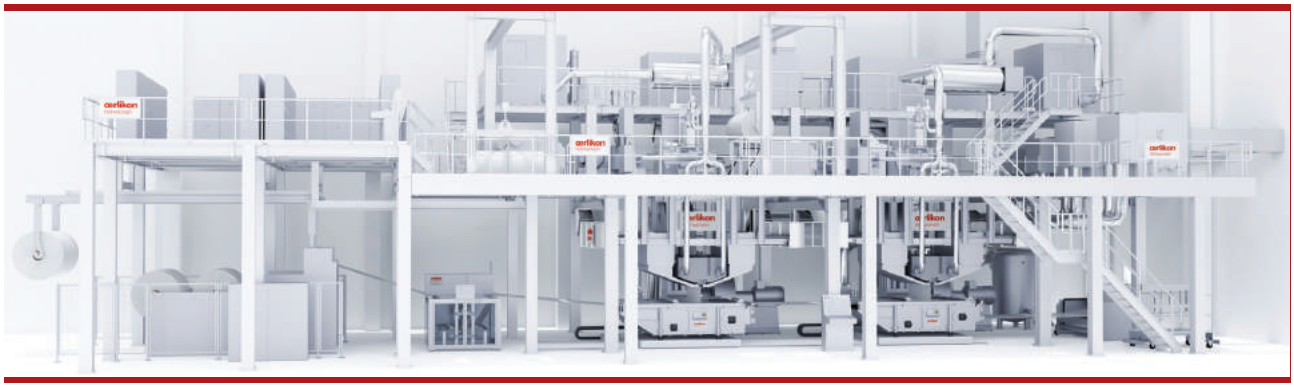
Oerlikon

Production capacities for European supplies of protective equipment expanded became larger

Just a few days ago, the second newly delivered Oerlikon Nonwoven meltblown system was commissioned at Innovatec's state-of-theart machine park. With it, the nonwovens manufacturer – based in Troisdorf in North Rhine-Westphalia – immediately started producing polypropylene filter nonwovens: in particular for use in protective face masks, which have been increasingly in demand since the start of the coronavirus pandemic and whose domestic manufacture is being supported by the German Government. Here, the highly-efficient Oerlikon Nonwoven meltblown technology from Neumünster is supporting the production of these highly-effective filter media.

for Economic Affairs Peter Altmaier and North Rhine-Westphalia Minister President Armin Laschet. Together, politicians and industry want to ensure that the production capacities for protective equipment continue to grow in Germany and that above all critical supply chains are secured at both national and European levels. And companies such as Innovatec and Oerlikon Nonwoven are actively contributing towards this.

The capacities for respiratory masks available in Europe to date are predominantly manufactured on Oerlikon Nonwoven systems



A 2-beam meltblown system – here with integrated ecuTEC+ for electrostatically-charging the filter media

"Back in June 2020, Oerlikon Nonwoven delivered the first so-called 2-beam system to Innovatec", reports Rainer Straub, Head of Oerlikon Nonwoven. Together with the second production line, the Troisdorf-based enterprise has been able to almost double its filter nonwoven output to date. The North Rhine-Westphalian company now has filter media production capacities that can be used to manufacture up to 2.5 billion operating room filter masks or a billion highly-effective FFP2 masks per year.

The, according to its own information, leading manufacturer of meltblown mask nonwovens in Europe is participating in the German Government's 'Nonwovens Production' grant program to ramp up its output capacities and has for this reason already received a visit from top German politicians, including Federal Minister

Manual lever now even more ergonomic by modernisation

Finer adjustment of the yarn suction force, lower compressed air consumption for the same yarn tension, smooth, ergonomic compressed-air valve – all promises fulfilled by the modernized AS H 32 and AS H 38 yarn suction devices.

Also known as hand injectors, these yarn suction devices are standard components of all spinning positions. The AS H 32- and AS H 38-series high-performance hand injectors are superior to those of other manufacturers, above all as a result of their lower compressed air consumption for the same yarn tension. This is made possible due to the higher yarn suction forces, particularly in the case of the AS H 38 series. In addition to this, string-up without 'ramp-

up' is possible in certain applications. Also new is a smoother, more ergonomic compressed-air valve, which makes deploying the yarn suction devices more comfortable for users. Furthermore, the required yarn suction force can be adjusted more finely.

The new AS H 32 and AS H38 hand injectors have been designed for applications that require a particularly high suction performance

The new 'high-performance devices' have been designed for applications that require a particularly high suction performance. For several months now, they have been successfully operating in pilot projects within the context of a BCF yarn application in Europe and a tape yarn system located in the US.

About Oerlikon

Oerlikon (SIX: OERL) engineers materials, equipment and surfaces and provides expert services to enable customers to have high-performance products and systems with extended lifespans. Drawing on its key technological competencies and strong financial foundation, the Group is sustaining mid-term growth by addressing attractive growth markets, securing structural growth and expanding through targeted mergers and acquisitions. A leading global technology and engineering Group, Oerlikon operates its business in two Divisions – Surface Solutions and Manmade Fibers – and has a global footprint of around 11 000 employees at 182 locations in 37 countries. In 2019, Oerlikon generated CHF 2.6 billion in sales and invested more than CHF 120 million in R&D.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers division

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, the Oerlikon Manmade Fibers division is one of the leading providers of manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. As a future-oriented company, the research and development at this division of the Oerlikon Group is driven by energy-efficiency and sustainable technologies (e-save). With its range of polycondensation and extrusion systems and their key components, the company caters to the entire manufacturing process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off with automation and Industrie 4.0 solutions.

The primary markets for the product portfolio of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Worldwide, the division – with more than 3,000 employees – has a presence in 120 countries with production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically-leading products for tomorrow's world.

For further information: www.oerlikon.com/manmade-fibers

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SCIENCE IN INDUSTRY

S. K. Associates

S.K. Associates' few words to customers

S.K. Associates is an India based Industrial group with activities in all regions. It is a leading supplier & Manufacturer for Textiles, Medical & Agriculture Spares & Machinery and most valuable resource in supporting the textile industries in various parts of India. Our purpose has been to continuously add value by offering technology solutions in just about every textiles segment.

S.K. Associates trading & supplying many products like, SKA Spring Loading for top Arms, Bobbin Holders, Compact spares for spinning & Conversion of LR Ring Frames Rotary filter to Stationary filter & include Smart Slub.

SK maintains close contact with customers nationwide. That contact helps us align the changing needs of customers to suitable technological advances — an ongoing process.

Over the years, we've earned the trust of our clientele through focused teamwork, quality and responsiveness, proactive initiatives, and in meeting customer demands.

Our attachment details complete device details for your valuable perusal.

S. K. Associates will be honoured if you go through our complete product line details and place orders for your requirements. We will be happy to supply and serve you.

Skaat Bobbin Holder

Bobbin Holders have found acceptance world wide and has been making continuously outstanding product improvements, backed by a proven track record, SKAAT continuously offers tried and tested bobbin Holders trusted with assurance of durability and trouble free performance.

Features

- Fully closed and protected against entry of fly and fluff.
- The spherically centered bearing mechanism for a smooth and consistent unwinding of roving.
- The ratchet mechanism ensures superior performance and a reliable longer duration of life.
- All components are of anti-static nature and aesthetically appealing with perfect finish.

- The polymer parts are made from worlds leading polymer manufacturer material.

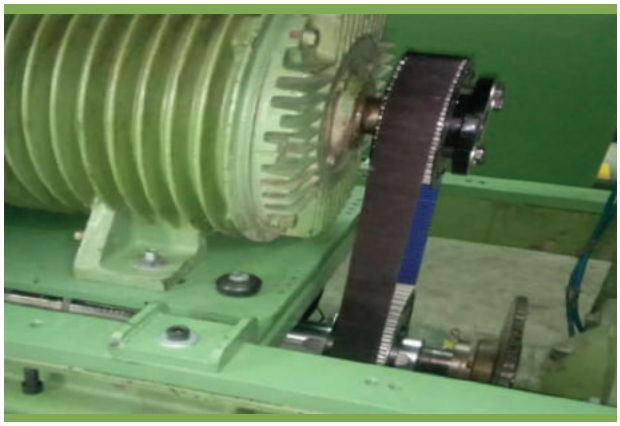
COMPACT SPINNING SPARES

We S.K ASSOCIATES offering our client an excellent quality range of Components for Compact Spinning's. These Components for Compact Spinning's are made from very high quality raw material which ensures high durability at its user

end. These Components for Compact Spinning's are in high demand in the market. Different sizes and designs are easily available in the market. Our Components for Compact Spinning's are available at industrial leading prices.

POLY CHAIN DRIVE CONVERSION

We S.K ASSOCIATES offering our client an excellent quality range of Components for LR & KTTM Ring Frame Main drive motor pulley conversion to Poly chain drive conversion



ADVANTAGES OF POLY CHAIN CONVERSION

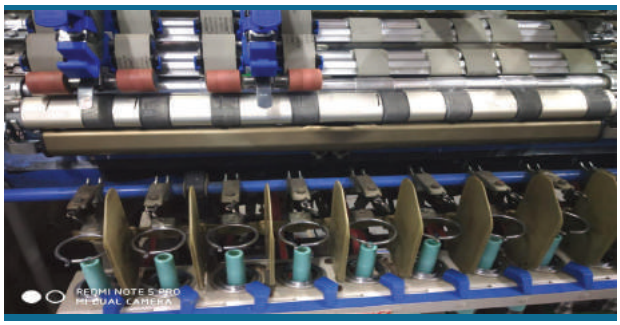
1. Zero maintenance
2. No elongation - No slippage
3. 100% power transmission.
4. Life of polychain belt leads up to 10 years.
5. Graded steel used for timing pulleys.
6. No productivity loss due to zero slippage.
7. No quality deterioration.
8. Power savings achieved.
9. Weight of timing pulleys used is very less compared to the existing pulleys in machine.

COMPACT BELT

CONVERSION FOR LR RING FRAMES ROTARY FILTER TO STATIONERY FILTER

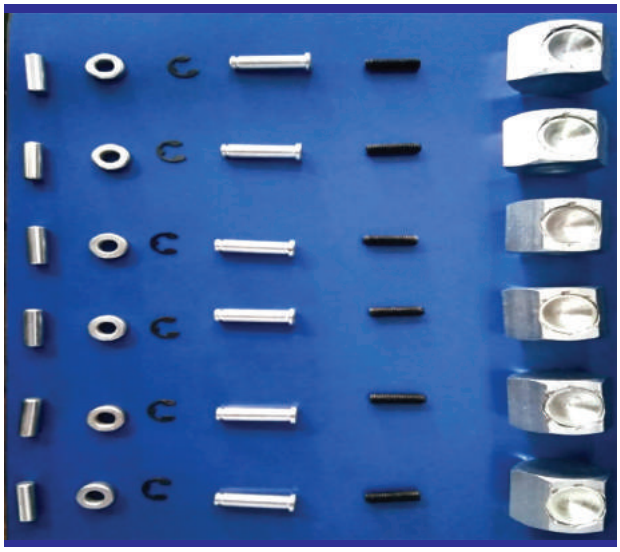
We S.K ASSOCIATES offering our client an excellent quality range of Components for LR RING Frames conversion for Rotary Filter to Stationery Filter.

Pneumafil Conversion for individual suction to common suction.



PNEUMATIC TO SPRING LOADING

We S.K ASSOCIATES offering our client an excellent quality range of Components for LR RING Frames Pneumatic to spring load Top arm conversion.



SCIENCE IN INDUSTRY

ADVANTANGE

1. To maintain unifrom pressure
2. Individual Top Arm pressure adjusted
3. Eliminated all Pnumatic pressure hose and fittings
4. To avoid machine starting end breaks
5. Save Power

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Email : salesska@skassociates.org
Web : www.skassociates.org

Baldwin Technology Company

Ahlbrandt rolls out the modular Ozone Converter Catalytic Air Purifier

Durable design is both highly efficient and environmentally friendly

Baldwin Technology's Ahlbrandt—a leader in providing corona, rotor spray and drying technology for industries including food packaging, textiles and more—has launched the highly efficient Ozone Converter Catalytic Air Purifier (CAP), which cleans exhaust air from corona surface treatment systems. With a catalyst bed of metal oxides, the CAP ensures an ozone-free, environmentally friendly production facility.

Featuring a compact, durable design, the CAP also is modular for easy maintenance and expansion, if needed. As requirements and production conditions change, the catalyst volume is adapted to the exhaust volume of

the installed corona surface treatment system. Additionally, the catalyst filter is designed without active carbon, making it nonflammable and very safe, especially when running in high temperatures.

"The new Ozone Converter CAP for corona surface treatment systems is designed to be both very efficient and environmentally conscious, supporting human health and safety," said Holger Bätz, Production Manager for Ahlbrandt. "These are important values, reflected in all of Ahlbrandt's technologies and throughout our organization."

Ahlbrandt new Ozone Converter Catalytic Air Purifier

About Baldwin Technology Company, Inc

Baldwin Technology Company Inc. is a leading global manufacturer and supplier of innovative process-automation equipment, parts, service and consumables for the printing, packaging, textile, plastic film extrusion and corrugated industries. As a total solutions provider, Baldwin offers our customers a broad range of market-leading technologies, with a focus on improving the economic and environmental efficiency of production processes. Through a global footprint of 21 company-owned locations and an extensive network of partners, our customers are supported globally, regionally and locally by dedicated sales and service team members who add value by forming long-term relationships. Baldwin is privately owned by BW Forsyth Partners, a Barry-Wehmiller company. For more, visit baldwintech.com.

About BW Forsyth Partners

BW Forsyth Partners is the investment arm of multibillion-dollar global manufacturing and engineering consulting firm Barry-Wehmiller. Established in 2009, BW Forsyth Partners blends Barry-Wehmiller's unparalleled legacy of value creation and people-centric culture development with keen investing experience to help companies realize their true potential. With a focus limited to areas known well, BW Forsyth Partners seeks to partner with leadership teams to acquire small- to middle-market companies in the capital and component equipment, and professional services sectors. In each of our operating companies, BW Forsyth Partners deploys operational improvements and strategy development without compromising the autonomy, strategic vision and entrepreneurial spirit of their leadership teams. For more information, visit bwforsyth.com.

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A.T.E. Enterprises Private Limited

A.T.E. now offers automated cutting room solutions from GA Morgan

A.T.E. has entered into an exclusive agreement with GA Morgan Dynamics Private Limited, India, for the marketing and sales of cutting room machinery and software systems for technical textiles, home textiles, and shoe upper cutting.

All machines are manufactured by Morgan Tecnica Group, Italy. GA Morgan is a subsidiary of Morgan Tecnica Spa, Italy, incorporated in 2008.

SCIENCE IN INDUSTRY

Morgan Tecnica automates the entire pre-sew processes from designing, product development, sampling, costing, material handling, loading, spreading, pinning, labelling, cutting and parts inspection and is a leader in cutting room automation.Morgan Tecnica's Fusion line can be used for 3D and 2D design, cut planning and consists of auto loaders, auto spreaders, auto labelling and auto cutters. This flexible automated line can be used for soft as well as hard materials and ensures increased productivity with savings in material wastage and labour cost.

Morgan India serves more than 500 top performing apparel companies in India today, including Arvind Limited, Page Industries, JG Hosiery, Kitex Garments, S. P. Apparels, Orient Craft, Shivalik Fabrics, Bodycare, Nahar Spinning, Pratibha Textile, Rupa, Lux, Dollar, TT Limited and more.

With a team of professionals, Morgan Industrial Training Centre, centralised parts warehouse, and direct service centres at Bangalore, Delhi, Kolkata, Ludhiana, Tirupur, Ahmedabad and Mumbai, GA Morgan is committed to provide top quality products and services to the Indian textile industry.

A.T.E. and GA Morgan hope that this association will help them to serve the Indian textile industry better by fully exploiting their operational synergies.

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Mimaki Europe B.V.

New Year, New Technology - Mimaki rolls out Two Advanced Print Solutions for Digital Textile Production

Mimaki Europe, a leading manufacturer of inkjet printers and cutting systems, today announces the addition of two new high performance textile printers to its market-leading product portfolio – The Mimaki TS100-1600 and the Mimaki Tiger-1800B MkIII Printer.

Add digital print technology to meet changing market demands

The TS100-1600 is Mimaki's latest addition to its '100 series' portfolio. This affordable, high-quality system is ideal for printers looking to add their first digital sublimation printing solution or expand their production capacity.

The newest addition in the 100 series, the TS100-1600

Bert Benckhuysen, Senior Product Manager at Mimaki Europe explained, "The textile printing industry has seen a growing requirement for increased product variety, lower inventories and shorter delivery times. Add to that the economic challenges of 2020 and we recognized that the market needed a digital textile printer that combined high quality, on-demand output with a low initial investment and cost-effective production. Having seen the success of our 100 series printers for the same reasons in other sectors, we knew that introducing a textile printer to this range would provide our customers with an opportunity to expand their businesses and

seek new revenue opportunities, even amid these challenging times."

Available in the EMEA from April 2021, the TS100-1600 has a print width of 1,600 mm and speed of 70 m2/h in the fastest mode. In addition, the use of a 1 litre ink bottle helps reduce the running cost and enables stable, continuous operation due to the reduced need for ink replacement. The printer is also equipped with a variety of renowned Mimaki features, including NCU (Nozzle Check Unit)1, NRS (Nozzle Recovery System)2, and the DAS (Dot Adjustment System) function which automates dot position correction and feeding amount correction, reducing the need for operator intervention. While the RIP software RasterLink 7 comes as standard, printers purchasing the TS100-1600 can also choose to add the TxLink4, anotherone of Mimaki's original RIP software platforms.

Get ahead of the competition with the new and improved Tiger-1800B MkIII

The second printer launched today is the Tiger-1800B MkIII- the latest model of this high-speed, high-volume industrial textile printer range. Available as a high-quality direct-to-textile (reactive or direct sublimation) or sublimation transfer printing solution, the new Tiger-1800B MkIII has been developed with reliability and print accuracy at the forefront of the design process and features new software capabilities that help to increase productivity and reduce downtime.

Mimaki's latest high-speed industrial textile printer, Tiger 1800B MkIII

"The textile industry is fast-moving, highly creative and leaves little room for error," continued Benckhuysen. "Printers in this market require a robust system that will deliver the speed, quality and innovation needed to keep pace with this exciting industry. The new capabilities of the Tiger-1800B MkIII build on those featured in successful predecessor models to meet these requirements head on."

The new capabilities of the Tiger-1800B MkIII include the 'Mimaki Printer Controller' (MPC) software. This platform has been designed for ease-of-use and enables users to set up, operate and output data with one-touch, simple operation. Its intuitive interface and functionality allow users to easily run automated overnight operation by sending multiple jobs with different settings to the print queue. The nozzle recovery function further reduces downtime by allowing production to continue if the printer encounters a nozzle malfunction.

The Tiger-1800B MkIII is also supported by the latest 'TxLink4' software. Its new 'Parallel RIP function' can manage multiple sets of print data at once to maximise productivity and the 'Variable print function' provides printers with the flexibility to produce more innovative, creative apparel applications. This latest system has also been upgraded with 16-bit rendering to enable a smoother gradation expression and can handle high-speed data transfer thanks to its 10 GB-based Ethernet controller.

About Mimaki

Mimaki is a leading manufacturer of wide-format inkjet printers and cutting machines for the sign/graphics, industrial and 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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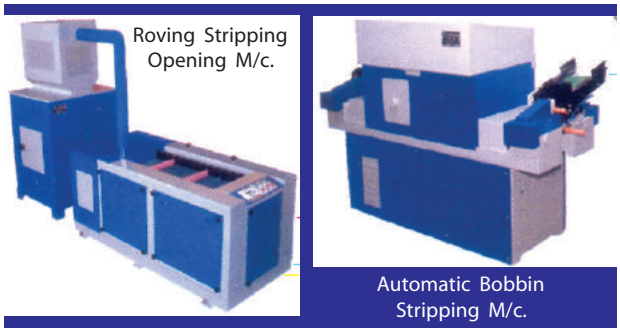
SCIENCE IN INDUSTRY

Laxmi Textile Products

Laxmi Textile Product keeps developing sustainable and suitable technology in spinning solution

"Laxmi Textile Products", a leading name is Textile spinning equipment manufacturer, established in 1978 and working for especially on waste recovery machinery in spinning as an effective solution to waste management and reuse of waste with out damaging the properties of cotton and other fibres. We supply our machine in Argentina, Bahrain, Bangladesh, Brazil, Chaina, Indonesia, Italy, Lagos, Nigeria, Pakistan, South Africa, Swaziland, Thailand, Vietnam, USA Etc. Now our products is CE MARKING certification.

Laxmi Textile Products started manufacturing Bobbin Stripping machine in India as an import substitute and had great success and popularised in the Textile Industries. Production capacity of the machine was increased to 2800 bobbins per hour and used to clean two types of bobbins at a time. Bobbin Stripping Machine has improved to such an extent where damage of the bobbins due to wrong handing of the machine has been almost eliminated. Sufficient safety device for the workers have also provided. Due to the constant increase in the price of the plastic products, bobbins price will be very high in future and replacement of the bobbins will be very costly affair. Bobbin stripping machine will reduce substantially the damage of the bobbins by worker.



Roving Stripping Opening M/c.

Automatic Bobbin Stripping M/c.

Indian Textile Industries have always felt a vacuum in sector of the Roving Bobbin stripping and opening. Now Laxmi Textile Products have offered the industries a very suitable technology to strip and open the roving bobbins automatically and deposit the open waste in a container or a bag or can be taken in form of lap by means of a conveyor. There is few technologies avail in the world to do the same and that to mainly work with long staple cotton and other fibres. Laxmi Textile Products adopted a suitable Technology and updated the same to work with Indian cotton and other fibres in the Indian labour work culture and atmosphere. LTP Roving Stripping and Opening Machine can strip and open 300(APPROX) bobbins per hour of one layer roving on bobbin with 12 feed bobbin conveyor and also developed for small machine. LTP Roving Stripping and Opening Machine have completely eliminated bobbin damage, occurs due to the use of knife by the worked to clean the bobbin. This is in reference to the above mentioned machine we would like to inform you that in our Roving Stripping & Opening Machine natural fiber is opened smoothly where in Naps and Short Fiber is not generated. Also the bitter is not used in our machine whereby the roving is opened by Combing blade and it is not damaging to fiber portion.

LTP Roving Stripping and Opening Machine is completely in house development based on imported technology and import substitute machine at very nominal cost, compared to European and Japanese made machines. Roving Opening Machine manufactured by other companies in which compressed air is used to strip the roving , The same system require very high quantum of compressed air supply and reduction of pressure affects the quality of opening and some times unable to open the roving at all. LTP technology requires 3.5 H.P motor but actual power requirement is less during working. Great energy saving technology adopted in the context of growing power cost.

Laxmi textile Products have not stopped further development of the machine and continuous R & D effort have designed suitable machine to open the OE yarn in rope form which may be dyed or Grey . Machine is now working successfully in one of the reputed mills and hope will be receiving another most wanted machine in waste recovery process in very near future.

TECHNICAL DATA FOR ROVING STRIPPING & OPENING MACHINE

Type of material	–	Cotton, Synthetic and various blended fiber
Size of bobbin length	–	Up to 450mm
Conveyor Belt put on	–	12 Bobbins
Suction Fan	–	1.5 HP
Strip Roll	–	1.5 HP
Conveyor Belt Drive	–	0.5 HP
Capacity available	–	300 Bobbins per hr. (approx)
Weight	–	750 Kgs
Size	–	2185mm(L)/ 1016mm(W)/ 915mm(H) 690mm(L)/ 690mm(W)/ 2045mm(H)

Laxmi Textile Products is also manufacturing of Individual Drive Cone Winding and Assembly Cheese Winding Machine Roving Ends Opener machine.

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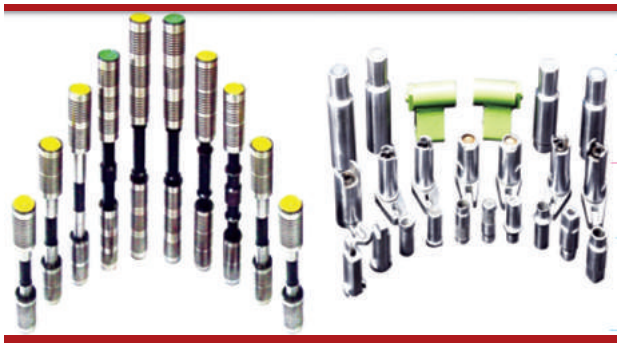
webside : www.laxmitextileproducts.com ❐

Sakthi Textile Engineers

Few words about Sakthi Textile Engineers

Sakthi Textile Engineers, Coimbatore, established in 2000, has been promoted and run by a team of dedicated qualified engineers who have a decade of manufacturing and development experience in engineering-based spinning Industry.

Sakthi's motto is to produce quality Top roller for Draw Frame, Lap Former, Comber, Speed Frame and Ring Frame machines in the Spinning Industry to ensure the customers achieve optimum level of production and quality. Sakthi always stands for consistency in quality, cost effective, and committed results to the customers. Sakthi motivates and imparts training to its staff in an innovative manner to improve their products time to time.



Top Rollers of Sakthi Textile Engineers

Sakthi's name has been trusted in textile spinning industry for its Top Rollers for all types of Draw Frame, Lap Former, Comber, Speed Frame and Ring Frame in replacement market for m/cs like Rieter, Lmw, Trutzchler, Zinser, Vouk, Toyoda, Cherry Hara, Padmatex, Texmaco -Howa, Marzoli and Textool. Top roller shells are made of graded High Carbon steel and End bushes are made from special steel and fitted with High

SCIENCE IN INDUSTRY

Quality Needle/cage Bearings of leading brands like INA, IKO, NTN.

Sakthi is also associated with the OEM of ring frame and worsted frame manufacturers in India.

Sakthi's administrative office and manufacturing unit is located at the Heart of Textile City – Ganapathy, Coimbatore, Tamil Nadu, India and it is supported by an established R&D centre, automated manufacturing plant, network of good after-sales service and marketing dealer network all over India as well as abroad. It is a fast growing manufacturing company and expanding its share of business across the world like Indonesia, Bangladesh, Vietnam Thailand, Egypt and Turkey through reputed dealer network.

Sakthi has emerged as an exclusive manufacturer of the complete range of top rollers suitable for all types of draw frame, sliver lap, ribbon lap, lap former, comber, speed frame and ring frame machines. As per client's requirement Accotex; Daytex; Yamuchi; Hokhusin; Berkal Inarco and Precitex cots can be supplied along with our ' SAKTHI' Top Roller.

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Fax: 91-422 2537717
Mail ID : sundar@sakthitop.com/
sales@sakthitop.com.
Web : www.sakthitop.com ❐

Tex-Tech Industries (India) Pvt. Ltd.

A brief profile of Tex-Tech Industries

Tex Tech Industries (India) Pvt. Ltd. has started journey in the year 1975 as a Partnership company by Late. Shri S. Srinivasan to manufacture Spare parts for cotton combers. It was the first company to manufacture New Nipper Assemblies in India.

Tex Tech specializes in manufacture of Hi-performance Retrofit kits to up-grade older generation Combers to the latest 3rd generation for achieving optimum removal of noils along with improved yarn quality levels.

Tex Tech is the only company to manufacture all types of technological Spare parts as OEM replacements for all models of Combers.

Tex Tech carry stocks of all spare parts for all modern combers and serves the Textile industry by immediate supply at competitive rates.

Tex Tech has a global presence with exports to countries like China, Egypt, Turkey, Indonesia, Vietnam, Argentina, Italy, Spain, Peru, Brazil, Bangladesh, Thailand, Iran, Pakistan, USA etc.

Tex Tech's state of art infrastructure in terms of manufacturing facility is a perfect example of fusion between 40 years of expertise with progressive technologies. This concept of Continuous improvement coupled with an earnest desire to be among the best keeps it pushing forward.

Tex-Tech's presence in production of Green Energy by its products

Tex Tech is also into production of Green Energy by installing its Own Wind Mills.

Hi-Performance Retrofit Kit E65 type for E7/5, E7/5A, E7/6, E60, E60H & E62 Combers

Noil Saving Nipper E80 Type - (PDC)

Modified Detaching Loading with APK

Modified Draw Box Loading

Differential Gear Assembly (Steel)

Benefits :

- 15-20% increase in production levels
  OR

- 1-1.5% saving in Noil
- 10-12% improvement in IPI and Classimate levels
- Lower Nep levels due to modified Nipper Geometry
- Enhanced Nipper life due to improved construction
- Consistency in U% levels
- Shortest Pay Back.

Hi-Performance Retrofit Kit E65 type for LK 54 & LK 64 Combers

Benefits :

- 15-20% increase in production levels OR
- 1-1.5% saving in Noil
- 10-12% improvement in IPI and Classimate levels
- Lower Nep levels due to modified Nipper Geometry

Noil Saving Nipper E80 Type - (PDC)

Modified Detaching loading

Modified Draw box loading

Differential Gear Assembly (Steel)

- Enhanced Nipper life due to improved construction
- Consistency in U% levels
- Shortest Pay Back.

Hi-Performance Retrofit Kit E60H type for LR E7/4 & LK 250 Combers

Benefits :

- 15-20% increase in production levels OR
- 1-1.5% saving in Noil

Noil Saving Nipper E60H Type

Modified Draw Box

Modified Detaching Loading with Guard Plate

Hi-Speed Gear Box assembly

Longitudinal Parts

Longitudinal Parts

- 10-12% improvement in IPI and Classimate levels
- Lower Nep levels due to modified Nipper Geometry
- Enhanced Nipper life due to improved construction
- Consistency in U% levels
- Shortest Pay Back.

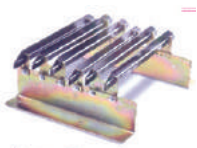
Hi-Performance Retrofit Kit for Sliver LAP E2/4A & Ribbon LAP E4/1A

Converted Sliver Lap E2/4A

SCIENCE IN INDUSTRY


Timing Belt Drive for Drafting Zone


Modified Spring Loading with Positive clearer Assembly


Bottom Stripper Arrangement


Converted Ribbon Lap E4/1A

Benefits :

- 15-20% improvement in production rates due to process of heavier lap weights (68 gms).
- Reduction in Thick & Thin Places due to uniform loading on Top rollers
- Improvement in Mean Lenght of lap due to effective drafting
- Removal of flies and loose fibres due to stripper arrangement.


Modified Spring Loading with Positive clearer Assembly


Timing Belt Drive for Drafting Zone


Bottom Stripper Arrangement

For further information, please contact :
Tex-Tech Industries (India) Pvt. Ltd.
27-D, V.N. Industrial Estate, Bharathi Colony
Peelamedu, Coimbatore-641 004, India
Off : 2566667, 2560078, 2562796
Fax : 00-91-422-2560828
Email : textech@textechonline.com
Website : www.textechonline.com.

Unispin Card Clothing India Pvt Ltd

UCC launched new products

We are delighted to share with the customers about the launch of our new products cylinder wire for cotton, high production cards and doffer wires for universal application

Unimax series cylinder wires

Our Unimax series cylinder wires are made of tough alloy steel raw material to withstand higher production loads in the modern high production cards. The tooth design has been modified to keep the fibres always towards tip. This enables intense carding action between cylinder and flat

tops there by resulting in better nep removal and opening of fibre tuft. On field trials the Unimax series cylinder wires reported a maximum nep removal efficiency of 85% at the customers required production rate. Unimax also reported consistency in sliver quality even at the various life stages and production throughput.

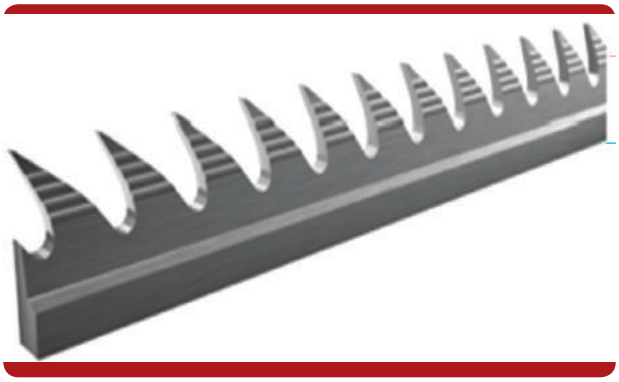
Available in 2 points per square inch variations,

860 ppsi – Suitable for count ranges between 20s to 30s counts, 100% cotton

960 ppsi – Suitable for count ranges 40s and above 100% cotton

Doffer wire Unistar DL 4030X0.9 RC – 310

UCC has launched a innovative doffer around a year back. This doffer wire is having a special curved tooth design with enhanced tooth depth to accommodate and to discharge the air current at high production rates. Due to lesser points per square inch the doffer dissipates the air current better and hold higher volume of fibres. The doffer has been tested successfully up to a production rate of 140 kgs / hour production rate. This doffer has become universal for 100% cotton, synthetics, blends and other applications.



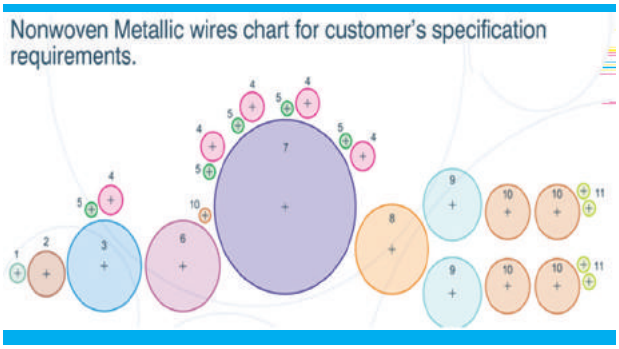
Metallic card clothing for non-woven cards

We offer metallic card clothing suitable for roller clearer carding machines process the below raw materials,

- Carbon fibre material
- Glass fibre material
- High temperature resistant material
- Low interior non-woven
- Carpet materials
- Blended materials
- Hot air non-woven
- Spun lace non-woven
- Island fibre material

And for other synthetic and natural fibre process as per customer requirement.

Nonwoven Metallic wires chart for customer's specification requirements.



Raising fillets for fabric raising applications

We offer raising fillets for processing the below fabrics,

- Knitted fabrics
- Acrylic blankets
- Raising fillets for U.S.A. type
- Brushes for napping machine raising fillet

- Raising fillet for Far East type
- Brushes

UCC offers card clothing products suitable for ring spinning, open end spinning, and cotton, synthetic and blend applications. Customer can visit UCC website www.unispincardclothing.com 24×7 and can access the product catalogue and download the same. UCC continuously develop the existing products and add new products for the emerging needs of customer and to cater new high production cards. With UCC products you can rest assured of consistent sliver quality, performance and life.

For further information, please contact :
Unispin Card Clothing India Pvt. Ltd.
S.F. No. 362/4, Angammal, Anna Nagar Extn.
Neelikonampalayam, Coimbatore-641033
Tamilnadu, India
Phone : +91 995242082
Email : sales@unispincardclothing.com ❐

Gayatri Textile Machines

Features of some exportable machines manufactured by GTM

Gayatri Textile Machines, Ahmedabad is the leading manufacturer and exporter of complete range of Spinning Roll Shop Machines, like Cot Grinding Machine, U.V. Treatment Machine, Spindle Lubricating Machine with auto leveling system, Top Roller De-greasing Machine, Cots Mounting & De-mounting Machine (Manual, Pneumatic & Hydraulic Models), Fluted Roller Truing Machine, Flocked Clearer Roller Cleaning Machine, Top Roller Greasing Machine, Cot Eccentricity & Taper Tester etc. with all India sales & services network. since so long. Features of some machines are as under:

GAYATRI COT GRINDING MACHINE (MINI MODEL WITH AUTO FEEDING SYSTEM))

We have developed this new Mini model for the spinning mills who are going for expansion of Spg. Dept. where spindles are increased. This machine is hydro pneumatically operated and is suitable to grind all kinds of top rollers of R/F and S/F only with 200mm Emery by the help of specially designed pneumatically operated Centreless grinding attachment with Auto Feeding System controlled by digital LCD electronic timer. You can change only holder as per drafting, without removing grinding stone, centreless attachment. Machine is having automatic dressing system, high efficient dust extraction unit with surface finish/accuracy as per the International standards and high productivity with very less maintenance and very economical price.

GAYATRI COT GRINDING MACHINE (MODEL GCGH-200-AF)

This machine has been sophistically designed to perform vibration free for high accuracy, high productivity, with very less maintenance. Machine is Hydro-Pneumatically operated to grind R/F and S/F top rollers only on pneumatically operated Centreless Grinding Attachment by moving Grinding Stone forward / backward and Oscillating movement. We can able to load 75 – 80 R/F or S/F top rollers at a time in adjustable magazine which will come one by one for grinding automatically with auto feeding system, controlled by digital LCD electronic timer. We have provided automatic dressing of grinding stone without changing any attachment & high efficient dust extraction unit. You can also use another side to grind longer rollers like Draw frame & Comber between centre with the help of MT2 dead centre by 25 mm. wide emery and hydraulically operated table traverse motion.

The quality of our products are well accepted by Indian as well as Overseas customers, since our equipments are working with smoothly and

maintenance free. We have exported our products in Global Market.

We are updating and making necessary design changes/modifications in our range of products by studying customer's exact requirements to cater the ever-increasing demand on quality and the requirements of our customers. Hence our products are successfully competing with others.

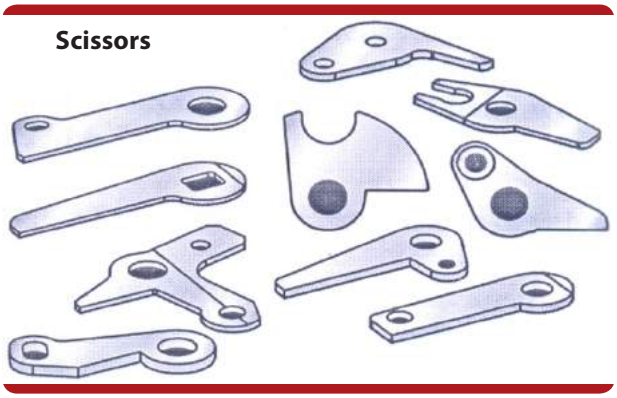
Last but not least, our entire team are working under one roof.

For further information, please contact
Gayatri Textile Machines,
17, Harshad Ind. Estate,
Margha Farm Compound,
Behind L.B.S. Stadium, BAPUNAGAR
AHMEDABAD - 380 024
Telephones : (079) 22775403
Fax : (079) 22779216
E-mail : gayatrirrp@rediffmail.com
Web-Site: www.gayatritexmach.com ❐

N P Kinariwala Pvt Ltd (NPK)

M/s N P Kinariwala Pvt Ltd (NPK) is a specialised manufacturer of yarn critical mechanical components suitable for various post spinning textile machinery since 1962. Our products are proudly made in India and used by customers with in India and abroad. Our team of engineers, skilled staff, sales agents and management have worked through each and every ebb and tide arising from textile machinery industry.

Scissors



Our ability to sustain and thrive has been matured over enduring relationship with our associates, various key customers and through continuous effort for product development.

Scissors & Cutters

Having Applications in Textile Machinery - Autoconer Spilcer, Lower End Shear, Bobbin Stripper.

Grooved Drums

Having Special Application in Technical Textile, Knit Denim, Dyed Yarn & Wool.

Winding Drums

Cylindrical Cam & Takeup Rolls

Having applications in high speed winding, texturizing, air covering and special purpose machines within yarn traversing.

Apart for the above we will also be launching a special winding drum and will showcase our range of services.

Takeup Rolls, Cam

This new winding drums is targeted towards customers in the Assembly Winding / TFO segment. This product will directly influence efficiency within the sector.

Similar to our gradual development for products, we are also developing our range of services.

Our services

Platform include repair / reconditioning for scissors and steel drums used on all models of autoconers (automatic yarn winding). For these parts to be received, verified, sorted, evaluated, repaired, validated and dispatched we have invested in both equipment and manpower within our organization.

SCIENCE IN INDUSTRY

The scope of work adds to our knowledge base and improves our ability to guide customers - textile mills and textile machinery manufacturers.

To conclude each ITMA we participate enables us to challenge ourselves in though and action. For this challenge we are ever grateful to all industry participants.

For further information, please contact :
M/s. N.P. Kinariwala Private Limited
148, Muktimedan, Maninagar,
Ahmedabad – 380 008.
Phone : +91 79 25467920, 25460581
Fax : +91 79 25468728
E-mail : npkindia@gmail.cim
Web : www..npkindia.com ■

Dhara Engineering Works

Dhara Engineering Works (DEW) is one of the leading Stainless Steel Fabricator and mainly an OEM supplier to global textile machinery manufacturers. With more than 25 years 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 DEW in Ahmedabad and its export division in Mumbai 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.

DEW 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 44 years of experience in textile engineering industry. The success and position of DEW is due to his continuous efforts and vast experience.

Mr. Narendra Panchal, The Co-promoter of DEW, has 24 years of experience in Administration and Human Resources Management and is a solid bridge between Production and Marketing handled by his brother namely Mr. Shailesh 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.

Some key products of DEW

1. Drying Cylinders/Cans
2. Jacketed Cooling/Heating Cylinders
3. Storage Vessels
4. Premixing Vessels
5. Cooking Vessels
6. Vertical/Horizontal Drying Range
7. Steamers for CDR/CBR
8. Wash Tansk/Guide Rollers

Cylinder Drying Range Machine

Cylinder dryers are an efficient & cheapest system for fabric drying with energy saving due to its direct contact drying.

Cylinder dryers are used in continuous operation with wet processing finishing lines or as separate drying machine as well.

Technical Details

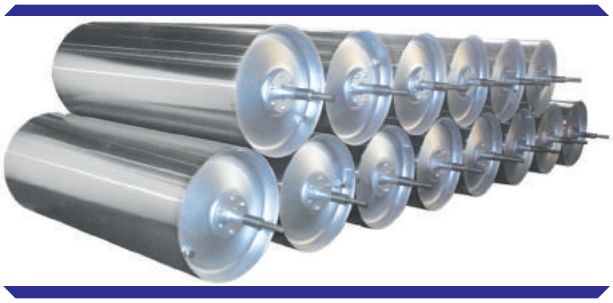
- Cylinder Width : 1200-mm to 4000-mm
- Cylinder Dia : 570-mm, 760-mm, 800-mm
- Operating Pressure : Up to 6 Bar./higher on request
- Design Temp : 165° C
- Cooling Cylinder : Single shell type or double Shell Jacketed & Spiral Flow Type Cooling Cylinder
- Speed : 10 to 150 Mtrs/min
- Stacks : Fabricated from MS/ SS Plates

Optionals

- Teflon-coating on Drying Cylinder
- Temp. Controller Per Stack or Per Group of Cylinder
- In Synchronisation with Finishing Machine or Individual
- Cooling Cylinder Located in Last Stack or on Seperate Frame.
- Exhaust Hood with Axial Fan
- Chain / Flat Belt Drive, Individual or Alternate Gear Box Motor Drive
- Feeding in Scaffold or Batching/Plating Devise
- 2 Bowl/3 Bowl Padding Mangle.

Drying Cylinder/Can

Specially developed manufacturing process and more than 27 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	– 1000
Diameter	– 400mm to 800mm
Working Width	– 1000 to 4000mm
Hydraulic Test Pressure	– 3 Bar to 12 Bar
Working Pressure	– 1 Bar to 6 Bar

SCIENCE IN INDUSTRY

Shell Thickness	– 2mm to 4mm
Surface Finish	– SS 304/316 polished/Teflon coated

Size Cooker

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

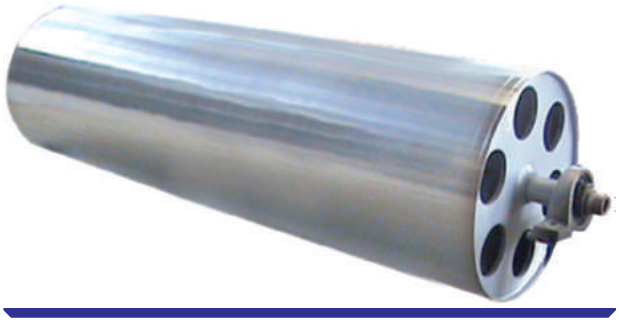
SS 304/316 mixing vessel is mainly used for homogenous mixture of size chemicals at ambient temperature. This stainless steel

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

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
Surface Finish	– SS 304/316 polished

Guide Rollers

Made of Stainless Steel

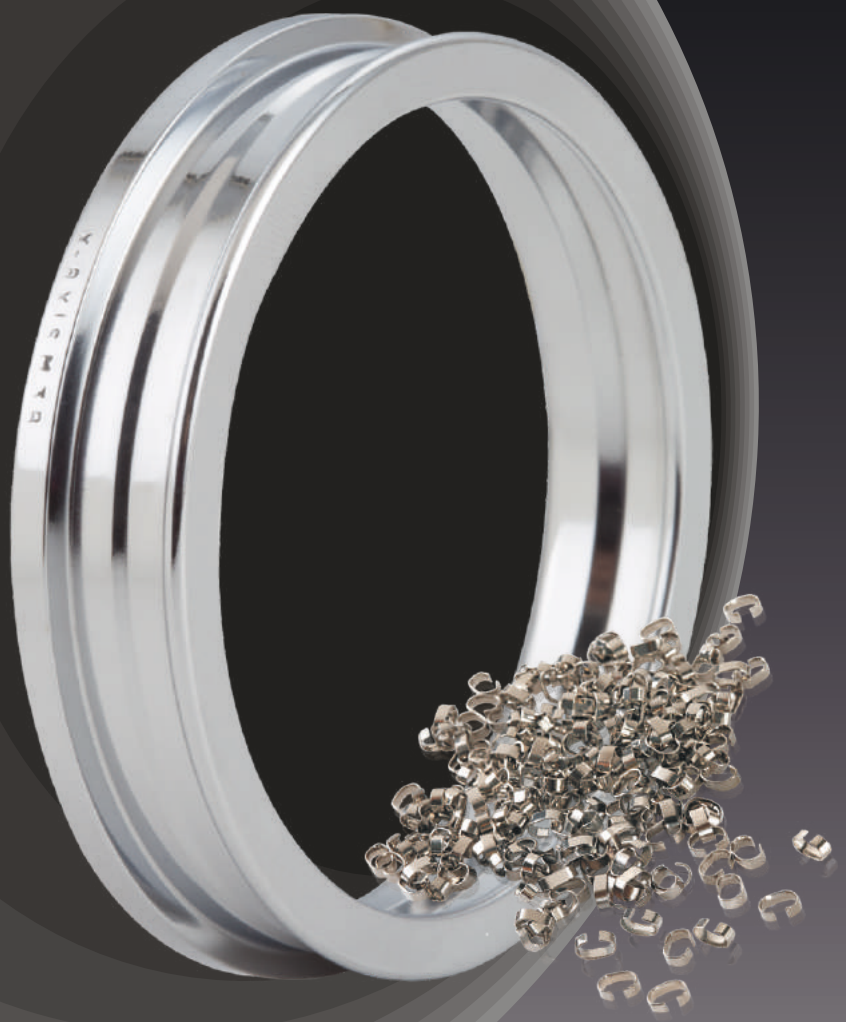
Light weight Roller for lowest possible fabric Tension

Less Torque required

Diameter	– 100mm to 200mm
Working Width	– 1000mm to 3600 mm
Type	– Plain/Fluted

For further information please contact :
Dhara Engineering Works
Plot No. 4011, Phase-IV, G.I.D.C., Vatva
Behind New Nirma, Ahmedabad-382445, India
Phone : +91 79 2584 1936
Email : sk_panchal@yahoo.com
Website : www.dharaengineeringworks.com ■

EXPERIENCE THE POWER OF NEXT



UNLOCK THE NEXT-GEN SPINNING QUALITY

The X-Axis' NEXT manufacturing process combines precision engineering and top of the line technologies, leading to excellence across every quality parameter.

the X-axis®
OCL

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Tel : +91 2752 243 322 I 241 088 I rings@rimtex.com I theXaxis.in

Lets Promote Quality®

Better OCL
OUTPUT CONSISTENCY LONGEVITY

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Sliver Management Systems

Yet another innovation by RIMTEX

SAME CAN SIZE, SAME MACHINERY, **MORE SLIVER CAPACITY !**

much*more* than the **most**

- RIMTEX has successfully re-designed the Sliver Cans to increase the sliver loading space inside the Can.
- Effectively adds more than 10% (approx) space for sliver loading in the Can.
- Gain **10% more** sliver space in your Carding Cans.

Imagine.Invent.Transform >

SUMO CANS

*Patent Pending

Ideally suited for 1000 mm & 1200 mm dia. cans

TRENDING INNOVATIONS

Lets Promote Quality®

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FEBRUARY 2021

GAYATRI

Innovative Technology to Dedicate your Needs of
Spinning Roll Shop Machines

Manufacturer & Exporter of
Spinning Roll Shop Machinery

COT GRINDING
Machine
Model : GCGHY-200-AF

Other range of Products

- Cot grinding - GCGH-200 machine
- Cot grinding - GCGHY-200 machine
- Flocked clearer roller cleaning Machine
- Eccentricity & taper tester machine
- Top roller calendering machine
- Top roller greasing machine (Vertical)
- Top roller de - greasing machine
- Clearer roller truing machine
- Fluted roller truing machine
- Cot mounting machine (Hand / Hyudraulic)
- Cot mounting & De-mounting machine
- (Hand / Hyd./ pne.)


Mini Cot Grinding Machine
GCGHY-200-AF


Cot Grinding Machine
Model : GCGHY-200


Cot Grinding Machine
Fully Automatic Model
with Measurement System


Cot Grinding Machine
Model GCGH-200 AF

GAYATRI TEXTILE MACHINES
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