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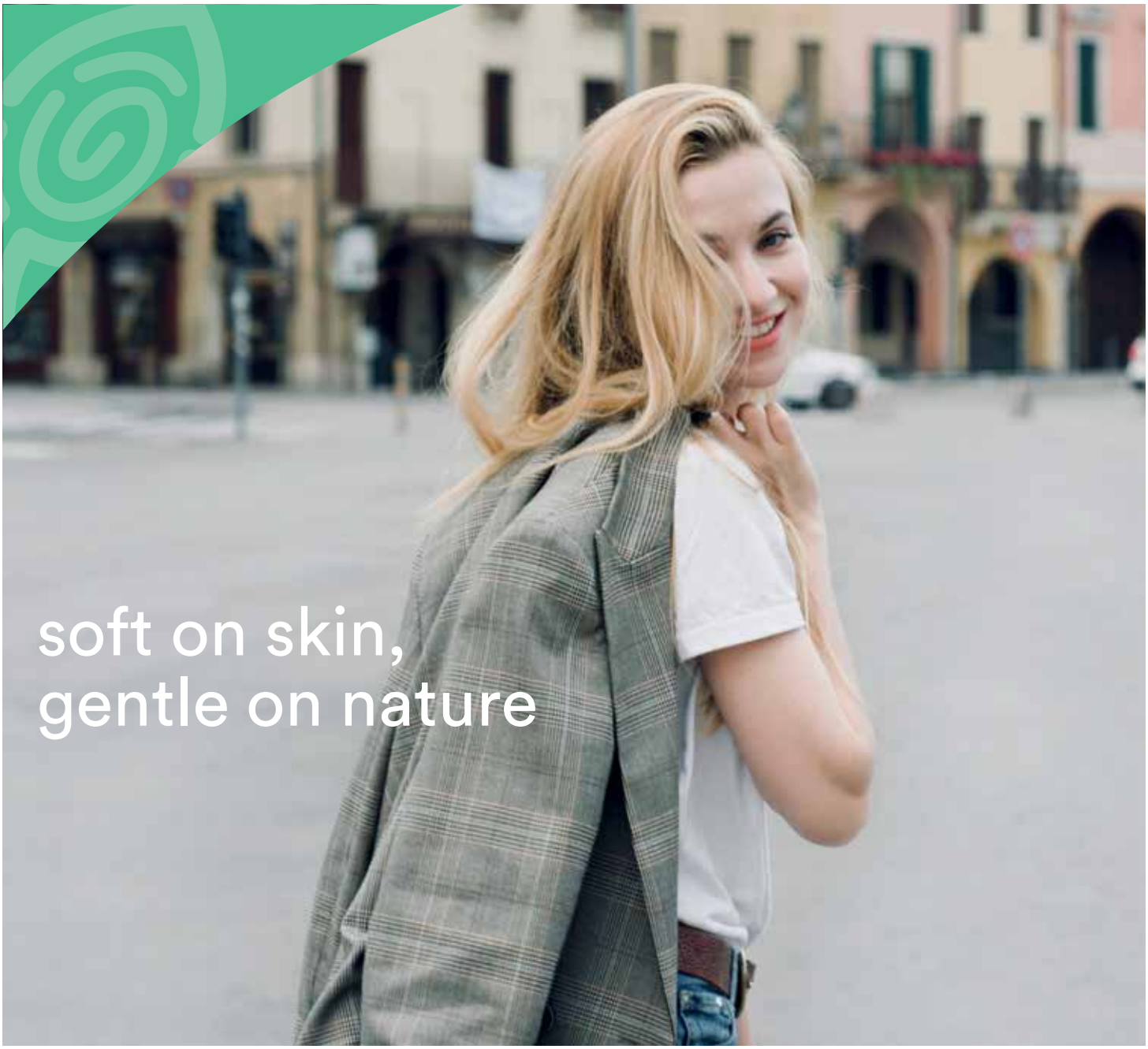

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editorial

Dear Readers,

With global economy paralysed and supply chains shattered, current projections by Cotton Advisory Committee (ICAC) show a 11.8 per cent decline in cotton consumption, reducing global trade to 8.26 million tonnes in 2019/20. The report also mentions that there is 4 per cent decrease in planted land in 2020/21 and 4 per cent decrease in production in 2020/21.

"While there is hope for a vaccine or cure, or that warmer weather in the Northern Hemisphere will minimise Covid's impact, there can be no real economic recovery unless in 2020/21, global area is projected to decrease by 4 per cent to 33 million hectares, with India remaining the world leader despite plantings dropping to 12 million hectares. Production will decline by a comparable amount to 25 million tonnes. The Secretariat's current price projection for the year-end 2019/20 average of the A Index has been revised to 71.4 cents per pound this month. The price projection for the year-end 2020/21 average of the A Index is 56.9 cents per pound this month.

The restoration of zero-rated sales tax facility - no-payment no-refund regime - is highly essential for the five major export-oriented sectors in a bid to enhance national exports and earn foreign exchange, say exporters.

The current volume of Pakistan's exports could not address the liquidity problem being faced by businesses and in order to enhance exports, the government must facilitate the export sector, they said. The exporters asked the government to revise its policy as the export-oriented sectors had been highly aggrieved by the scrapping of SRO 1,125 and imposition of 17% sales tax.

They said textile exporters, who had timely filed sales tax refund claims, received only 35% of their claims from the government. The remaining 65% of refund claims were still pending, which constituted around 12-15% of the running capital of exporters. Textile exporters started receiving refunds after a passage of seven months and 75% exporters received refunds after nine months.

The Punjab government in Pakistan last week allowed reopening of the entire textile value chain, making the business community responsible for ensuring precautionary measures against spreading of the novel coronavirus. The decision followed a meeting by a delegation of the All Pakistan Textile Mills Association (APTMA) with chief minister Usman Buzdar on May 2.

The chief minister was satisfied with the arrangements and allowed the textile value chain to resume operations across the state, APTMA Punjab chairman Adil Bashir was quoted as saying by Pakistani media reports. COVID-19-hit textile industry in Pakistan is gradually resuming it's export business, In Pakistan, textile industry accounts for 8% of GDP and over 46% of manufacturing industry. He introduced harsh situation faced by textile industry. "Such a situation has never arisen before. Since 19th March there was rarely production of denim fabric in textile sector. Textile export plays an important role for Pakistan economy. "A huge chunk of textile is exported to western countries. due to Covid-19 it will have a huge impact on Pakistan's balance of payment and we will be under huge crisis if this situation extends for a few months, Even though, textile industry is gradually resuming. The government has allowed several companies to resume production with strict guidelines which are in accordance with WHO.

WASEEM J. KHAN
Editor in Chief

Global Textile & Clothing News

Pakistan's textile exports plummet 65% in April

APTMA urges govt to restore zero-rated sales tax status

Textile enterprises have demanded that the government reopen all the textile industries along with the restoration of the zero-rated sales tax status as textile exports have been severely affected. In April 2020, textile exports declined 65% to $404 million against exports of $1,138.35 million in the same month of the previous year.

"This should set off alarm bells for the official quarters concerned," remarked All Pakistan Textile Mills Association (Aptma) Punjab Zone Chairman Adil Bashir.

In the wake of a heavy fall in exports as well as domestic sales of textile products, Bashir demanded the restoration of the zero-rated status for the five major export-oriented sectors in order to give a boost to the textile industry in its endeavours to increase local production and exports, and save millions of jobs.

He urged the government to take serious measures to overcome the liquidity issues of the textile industry.

Sales of all major textile categories plummeted in April, with garments being the most affected. Cumulatively, textile exports dropped 3% year-on-year in the first 10 months of the current fiscal year to $10.82 billion, said JS Research analyst Ahmed Lakhani.

Some improvement is expected in May as shipping delays have been reduced. Moreover, buying countries were also gradually easing the lockdown, which should support demand recovery, he added. In the prevailing situation, it is pertinent to see what special incentives can be offered to the export-oriented sectors. On the other hand, "the risk remains that despite the incentives, a potentially severe second and third wave of Covid-19 can neutralise any impact from the government incentives," commented the analyst.

The Aptma chairman said the trend of exports in April 2020 was very frightening as Pakistan's annual shipments to EU countries and the US, exceeding $10 billion, were fraught with risks due to delay and cancellation of export orders after the coronavirus lockdown and liquidation or closure of many retail chains. Pakistan Cloth Merchants Association Secretary-General Arif Ismail urged the Sindh government to allow all textile and allied industries to resume operations and comply with the prescribed SOPs.

The Aptma chairman stressed that the textile industry was the backbone of the country with more than 60% of total exports and the largest employer with widespread employment for professionals, skilled and unskilled workers.

He said the zero-rated regime was introduced in 2005-06 with declared objectives of eliminating cash liquidity issues, wiping out refunds of billions of rupees stuck for long, avoiding unproductive waste of man-hours in chasing tax refunds and eliminating the additional cost borne on the filing and follow-up of refund claims.

Bashir stated that 17% of sales tax was imposed on the textile industry with effect from July 2019 with lofty claims of the Federal Board of Revenue (FBR) of processing refund claims within 72 hours through the newly developed FASTER software system.

FASTER still lacks basic provisions like Section 8B, eight-digit HS code, etc, which hampers the system.

He raised eyebrows over the working of FASTER system and stated that due to inherent weaknesses in the system a large number of taxpayers had not been able to even file Annex-H.

Pakistani exporters decry 17% sales tax on local sales

Demand restoration of zero-rated

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KARACHI: Exporters have cautioned that the value added textile sector is on the verge of closure due to a severe liquidity crunch caused by the imposition of 17% sales tax in the last budget, as a result of which billions of rupees have been stuck with the government.

In its budget announcement last year, the government withdrew the zero-rated facility and imposed 17% sales tax on five major export-oriented sectors with a view to taxing their domestic sales.

However, the exporters have lashed out at the government, claiming that the imposition of sales tax has turned out to be a financial burden on the export industry.

"We had urged the government not to penalise exporters for the Federal Board of Revenue's (FBR) failure to enhance revenue and spare sales tax on local sales," remarked Pakistan Apparel Forum Chairman Muhammad Jawed Bilwani.

The sudden outbreak of Covid-19 added to the woes of the export sector as global brands were filing for bankruptcy due to economic slowdown, which would surely impact Pakistan's export industry, he said.

Exporters operating small and medium enterprises (SMEs) remained the worst affected from the liquidity crisis and they were heading towards complete closure due to absence of capital for running their industrial units, said Bilwani.

According to him, the only solution to rescue the export industry and address the liquidity crunch is to restore the zero-rated sales tax regime and reinstate SRO 1,125 to provide relief to exporters during the ongoing liquidity crunch.

Owing to several complaints, the government introduced the FASTER refund system for the five export-oriented sectors through which sales tax refunds were supposed to be made within 72 hours.

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"In the first three months, the FASTER system functioned below par and remained inactive," Bilwani lamented. "With the joint intervention and efforts of business chambers, the Federal Tax Ombudsman and the FBR, the flaws and drawbacks of the system were removed."

Still, approximately 25% to 30% of the exporters had not received refunds against claims filed in July 2019, which put a question mark over the efficiency and transparency of the FASTER system, he said.

Though the government may have achieved its target to document local textile sales through the imposition of 17% sales tax, the tax itself brought disastrous results and dented exporters' liquidity.

Therefore, the government should honour the commitment made by Adviser to PM on Finance Abdul Hafeez Shaikh to restore the zero-rated facility for the export-oriented sectors, the official said.

Adviser to PM Imran on Commerce assures textile sector of relief package

Abdul Razzak Dawood says PTI govt will pass the benefit of reduced oil prices on to public

ISLAMABAD: Adviser to Prime Minister on Commerce Abdul Razak Dawood on Wednesday said that the government is working on relief packages for the revival of the textile industry as textile demand has increased due to severe restrictions.

Talking to Radio Pakistan, the adviser said that the government intended to pass on the benefit of reduced oil prices in the international market to the public as well.

"Despite the huge challenge of debt, Prime Minister Imran Khan preferred to provide relief to the people who are suffering from lockdown restrictions," he added.

Dawood emphasised that the Pakistan Tehreek-e-Insaf government has introduced the biggest stimulus package in the history of the country to help the nation amid the coronavirus pandemic.

Furthermore, he said that under the Ehsaas programme an amount of Rs144 billion has been earmarked to help the poor and needy people, which is being disbursed in a transparent manner across the country.

"To provide instant relief to small and medium enterprises, the government will pay their three-month electricity bills," he stressed.

Moreover, the PM aide stated that some other programmes to support informal-sector workers would also be introduced within the next few days.

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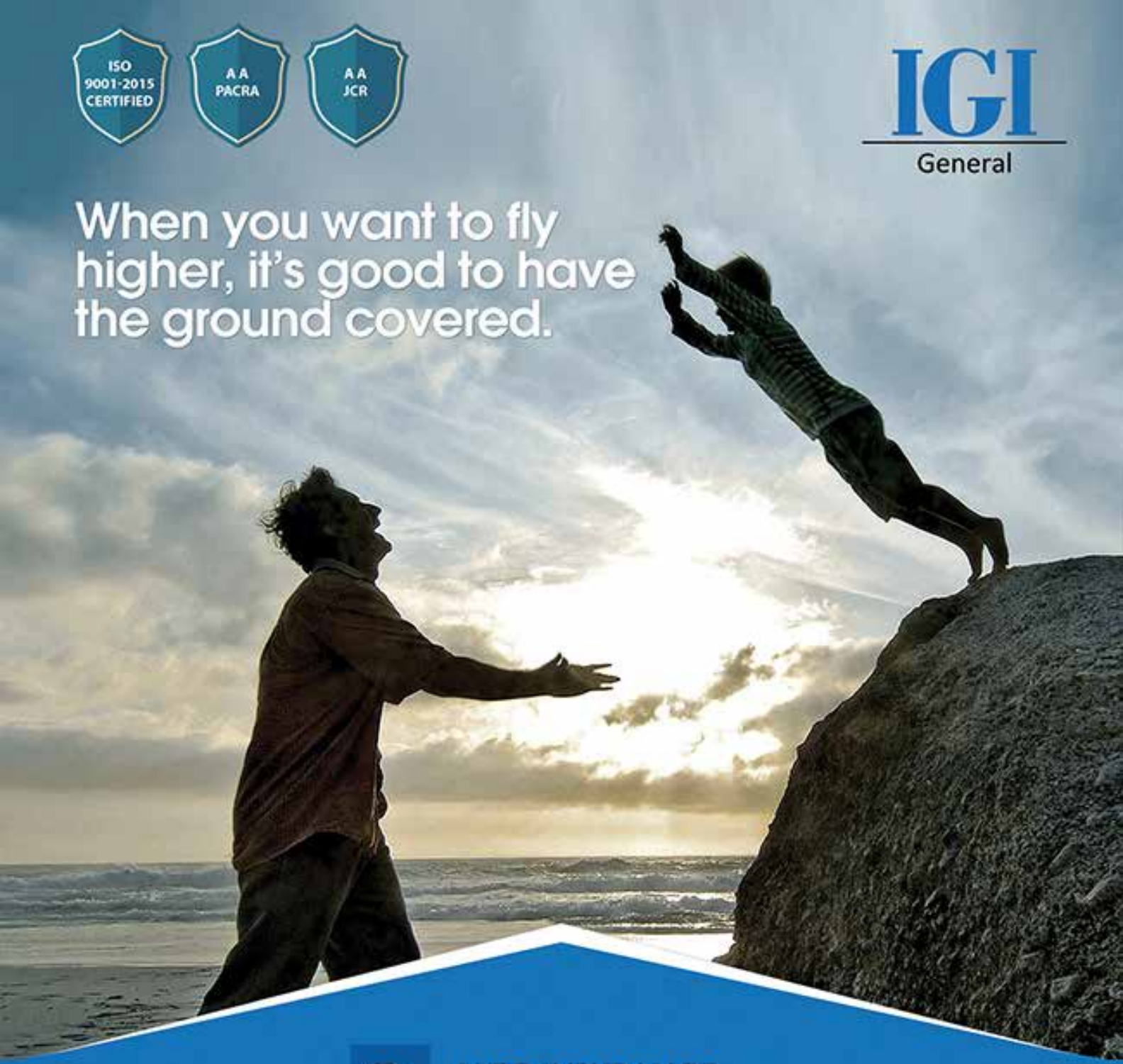

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Made in China': a label redesigned in Shenzhen

Global streaming giant Netflix recently released a new fashion competition. It included an upcoming designer from Shenzhen, who supports a fresh perspective of fashion 'made in China'. Long associated with cheap fast fashion, this label is now redefined to 'designed in China', as young Chinese talents return home from renowned fashion institutions. Shenzhen offers the ideal base for brands, thanks to its strong economy and access to local garment manufacturers. And at Intertextile Shenzhen Apparel Fabrics, exhibitors with high-end fabrics and accessories can expect to enjoy a proximity to fashion's next big force, from 15 – 17 July 2020.

"The beginning of this year has seen unprecedented challenges to the modern fashion industry," said Ms Wendy Wen, Senior General Manager of Messe Frankfurt (HK) Ltd. "However, with faith in the industry's ability to thrive and regenerate in the near future, Intertextile will always remain a platform to tap into the most exciting fashion supply chains. Shenzhen is a city to watch out for as we see young, promising fashion designers from the local area emerging onto the global scene. This is one of the reasons why we made the decision to rebrand the fair this year and move to a larger, brand-new fairground, and we are looking forward to assisting more international apparel fabrics and accessories suppliers to reach this potential through Intertextile Shenzhen."

Access to China's powerful consumer market

Chinese designers have been gathering momentum at international fashion weeks. Meanwhile, Chinese millennial and Gen Z consumers – an affluent, influential consumer market traditionally targeted by Western brands – are proud to wear labels from home and experiment with cultural identity. With training from leading institutions and brands around the world, these designers now fuel their own sales with an in-depth understanding of their home market. This includes the advantages of powerful domestic e-commerce platforms and familiarity with Chinese social media influencers.

With these advantages, it is no surprise to see collaborations between Chinese designers and big-name Western brands, such as H&M, Fila and Nike, in the form of capsule collections targeted at domestic consumers. By providing a platform for international and Chinese industry players to communicate, Intertextile enjoys a unique proximity to these collaborative opportunities – Fila and Nike attended the 2019 edition of Intertextile Shenzhen, while H&M attended the 2019 Autumn Edition of Intertextile Shanghai.

Domestic brand enterprises at Dalang Fashion Town

Domestic brands sourcing at the fair in past editions included Marisfrolg, Ellassay and Kaltendin, all of which are present at the nearby Dalang Fashion Town. This is an ongoing development in Shenzhen, subsidised by the government, which aims to form a platform for garment research and development, design, brand marketing, logistics and education.

More information on the Dalang Fashion Town can be found here: https://intertextile-shenzhen.hk.messefrankfurt.com/shenzhen/en/Dalang-Fashion-Town.html

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Intertextile Shanghai Apparel Fabrics and Yarn Expo Spring merge with Shenzhen editions

As announced on 8 April, due to the worldwide spread of the coronavirus, Intertextile Shanghai Apparel Fabrics – Spring Edition and Yarn Expo Spring will merge with Intertextile Shenzhen Apparel Fabrics and Yarn Expo Shenzhen for 2020. Exhibitors from these Shanghai fairs will be able to present their spring / summer 2021, as well as a preview of autumn / winter 2021-22, collections at the corresponding Shenzhen editions instead. Intertextile Shenzhen Apparel Fabrics will be held from 15 – 17 July 2020 at the brand-new Shenzhen World Exhibition & Convention Center. This fair is organised by Messe Frankfurt (HK) Ltd; the Sub-Council of Textile Industry (CCPIT) and the China Textile Information Centre. The fair will be held concurrently with Yarn Expo Shenzhen, CHIC and PH Value. For more details, please visit: https://intertextile-pavilion-shenzhen.hk.messefrankfurt.com/shenzhen/en.html.

To find out more about all Messe Frankfurt textile fairs worldwide, please visit: www.texpertise-network.com.

INDEX™20 Exhibition Re-Scheduled To 7 – 10 September 2021

Geneva, 11th May 2020

As a result of the ongoing uncertainty facing the world in the light of the COVID-19 pandemic, and the continuing ban on gatherings of large numbers of people in Switzerland, the INDEX™20 Organisers, Palexpo and EDANA, have been reviewing the best course of action.

In particular, the Organisers acknowledge that the latest developments of the worldwide COVID-19 situation are not yet leading to a normalised situation (e.g. extension of confinement periods, no visibility concerning the reopening of international borders and/or international transportation, increasing expert opinions anticipating a negative evolution, etc.).

The safety of all INDEX™20 attendees remains the Organisers' paramount concern. Whilst Palexpo and EDANA sincerely hope that the ravages of the virus will have abated by the end of the year, the Organisers are unable to guarantee that the very significant on-going disruptions will have been resolved by October 2020.

Palexpo and EDANA consider it is their duty to ensure that the industry's leading nonwovens event takes place under the best possible conditions. As such, the protection of exhibitors and visitors is the Organisers' primary concern, in order for all attendees to meet, network and conduct new business together, as they have in past editions.

As a result, also taking into account various exchanges with the INDEX™20 stakeholders, it appears that there are obvious imperative reasons to postpone INDEX™20 and the Organisers have no other choice than to reschedule INDEX™20 once again.

Consequently, INDEX™20 will be postponed to 7 – 10 September

2021.

More than ever before, the world increasingly recognizes the vital role played by nonwovens in protecting citizens around the globe from infection and disease. The prevailing situation has thrown into relief the sheer diversity of innovation which the nonwovens industry and its suppliers are capable of, no matter how great the challenge. It is an industry which Palexpo and EDANA are proud to serve.

In the interim, the Organisers strongly recommend that everyone continues to follow the sound advice of the national health authorities to protect, as much as possible, all people around the world from COVID-19, and the Organisers look forward to warmly welcoming all the attendees to Geneva in September 2021.

Palexpo and EDANA remain available for any further information that may be required.

Yarn Expo Autumn returns in September 2020 to support industry rebound and growth

After hosting a record breaking 543 exhibitors from 14 countries and regions, along with over 19,000 visitors from 93 countries and regions in 2019, Yarn Expo Autumn will return to Shanghai from 23 – 25 September 2020. Known within the industry as the leading fair for accessing the promising Chinese and Asian markets, the 2020 autumn edition will provide the perfect platform to help the industry rebound and recover from the worldwide COVID-19 disruption. The fair is expected to occupy 26,000 sqm of exhibition space at the National Exhibition and Convention Center in Shanghai.

Unravel the business potential at Yarn Expo Autumn 2020

When commenting on the upcoming fair and its benefits for the industry, Ms Wendy Wen, Senior General Manager of Messe Frankfurt (HK) said: "The coronavirus pandemic has forced the industry to face unprecedented challenges and whilst a full recovery will take time, businesses around the world are already looking ahead to actively seek ways to prompt a market rebound." She continued: "This autumn's edition of Yarn Expo is therefore as vital as ever for the industry and its global supply chains. The fair offers a platform to help companies reconnect whilst supplying access to the rebounding market. With its extensive experience and understanding of the industry, Yarn Expo is in a strong position to support the overall recovery of the yarn and fibre sector."

An abundance of business opportunities and products to explore

Yarn Expo Autumn has always provided fairgoers with a comprehensive outlook on the market themes and this year will be no exception. Trending eco-friendly and innovative products will be showcased amongst a diverse range of high-quality yarns and fibres, all under one roof.

By exhibiting at the show, companies position themselves in the heart of the ever-growing Chinese and Asian markets. Identifying the potential in the region, Mr Donatas Čerkevičius, Commercial Director of Naturalus Pluostas, Lithuania said: "Yarn Expo is the best place to meet professionals from spinning mills, trade buyers and even designers who come here to see trending textures and colours. That's why we decided to participate, here in China, because we know that the Chinese textile industry is huge, and a very big market for hemp fibres. And lots of companies from Asia exhibit or visit here, so

it's everybody in one place, in one go."

What's more, exhibitors frequently note the international opportunities the fair offers to those aiming to broaden their market reach. Ms Emily Chiang from the marketing department of Tung Ho Textiles, Taiwan, spoke about how their innovative, functional products from Taiwan attracted a large, international audience at Yarn Expo Autumn. "We were able to meet buyers from different countries and regions. For example, from Thailand, India, China of course, Hong Kong and Korea. We would never have previously contacted clients from Thailand, so this has provided a big chance for us and widened our market strategy."

Meanwhile, for buyers, an efficient and easy sourcing process is key. With its diverse range of products, visitors can source for all of their needs in one place – a common selling point observed by buyers. Ms Bonnie Chan, Manager of Raw Materials, Pacific Textiles, Hong Kong explained how the fair is a 'must attend' show for them every year: "We collaborate with a lot of fashion brands like Uniqlo, Anta and Fila. The fair has a significant influence on our company's business strategy. I can find whatever product I want here". She also noted the benefits of the dedicated product zones: "We are also very happy to see the new Fancy Yarn Vision display area, which is very handy for us to efficiently find good quality fancy yarn exhibitors."

Along with efficiency, buyers also appreciate the high quality level of products available and rely on the fair as a source to access the newest industry trends and technologies. Recognising the quality and quantity of Yarn Expo Autumn after attending the fair for the last six years, Mr Rajiv Srivastava, Manager, Neman Brothers & Assoc, the US observed: "What I like most about this show is that the suppliers display all kinds of products and are always keeping up with industry trends. This show is way beyond a sourcing channel – it's more like a stage for high-quality products and innovative concepts. It gathers everybody in one place which is effective."

Fringe programme adds extra value to the fair

Once again, the extensive fringe programme and dedicated product zones will be on offer, enriching the experience for fairgoers. Market trends and information will be shared in forums such as the China Fibre Fashion Trends and seminar which will dive deep into the Chinese market. Meanwhile, the Fancy Yarn Vision zone will return amongst others, following its popularity in the previous edition. The area will gather creative fancy yarn and downstream application products to display the latest innovations from fancy yarn exhibitors.

Yarn Expo Autumn 2020 will be held concurrently with Intertextile Shanghai Apparel Fabrics – Autumn Edition, PH Value and CHIC, providing a concentrated overview of the latest trends and developments in the sector, all in one place. Yarn Expo is organised by Messe Frankfurt (HK) Ltd and the Sub-Council of Textile Industry, CCPIT. For more details on the upcoming fair, please visit: https://yarn-expo-autumn.hk.messefrankfurt.com.

Background information on Messe Frankfurt

Messe Frankfurt is the world's largest trade fair, congress and event organiser with its own exhibition grounds. With more than 2,600* employees at 30 locations, the company generates annual sales of around €733* million. We have close ties with our industry sectors and serve our customers' business interests efficiently within the framework of our Fairs & Events, Locations and Services business fields. One of the Group's key USPs is its closely knit global sales network, which extends throughout the world. Our comprehensive range of services – both onsite and online – ensures that customers worldwide enjoy consistently high quality and flexibility when planning, organising and running their events.

3nd ITMF-Survey about the Impact of the Corona-Pandemic on the Glob al Textile Industry

Between April 16-28, 2020, ITMF has conducted a thirdsurvey among ITMF Members and affiliated companies and associations about the impact the Corona-pandemic on the global textile value chain, especially on current orders and expected turnover in 2020. In total 600 companies from around the world participated.

Worldwide, current orders are down by -41% on average

Orders in East Asia dropped visibly less (-28%) than in all the other regions (-40% and more). It can be assumed that this region, which was hit first by the Corona-crisis, is also recovering first from it. Especially China and Korea were able to contain the epidemic successfully. In the last few weeks, most Chinese textile companies have ramped up production significantly. Likewise, off-line retail stores have reopened, and consumption is picking up again in East Asian countries. It remains to be seen what the consumption behaviour will be like in China, Korea and other places once shops are open again.

Worldwide, expected turnover 2020 is down by -33% on average compared to 2019

Companies in Europe are expecting turnover in 2020 to be down by "only" -22%, a figure significantly better than the -33% reported in the second survey. Companies in East Asia are expecting turnover to be down by -26%, which is close to what was reported in the second survey (-24%). Companies' turnover expectations in South East Asia and South Asia on the other hand have deteriorated significantly. These regions were hit later by the Corona-pandemic and hence the full impact was felt with a delay. Compared to 2019, expected turnover for 2020 is down to -38% in South East Asia and to -31% in South Asia. Turnover expectations in Africa, South America and North America have not changed much since the second survey.

Challenges:

- securing enough liquidity
- supply chain disruption
- uncertainty

Opportunities:

- increasingly thinking about diversification, currently focusing on medical textiles
- streamlining organisation and production processes
- accelerating the reassessment of existing supply chains
- accelerating digitalisation and investing in sustainable production

Government Support:

- Many companies receive little to no help, even if governments have support policies in place.
- Government support can comprise:

o loans with low interest rates and deferred repayment

o delayed tax payments

o delayed social security payments

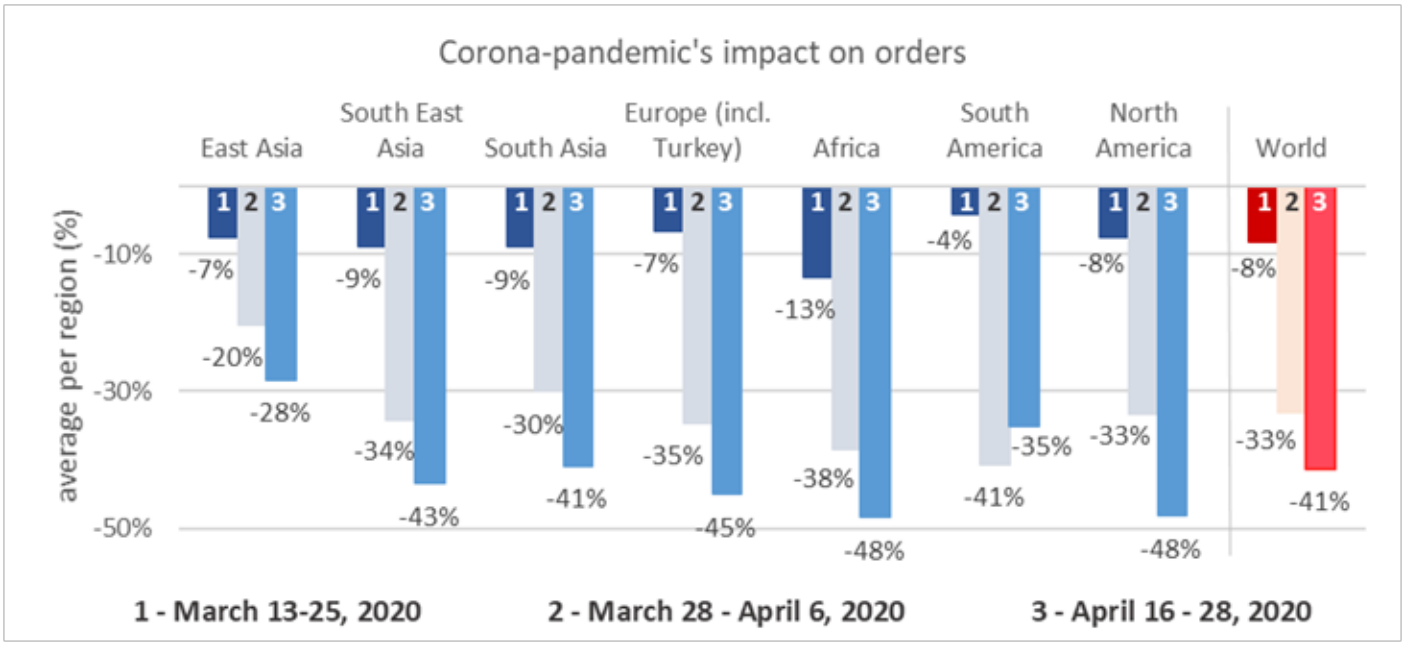
o short-work schemes

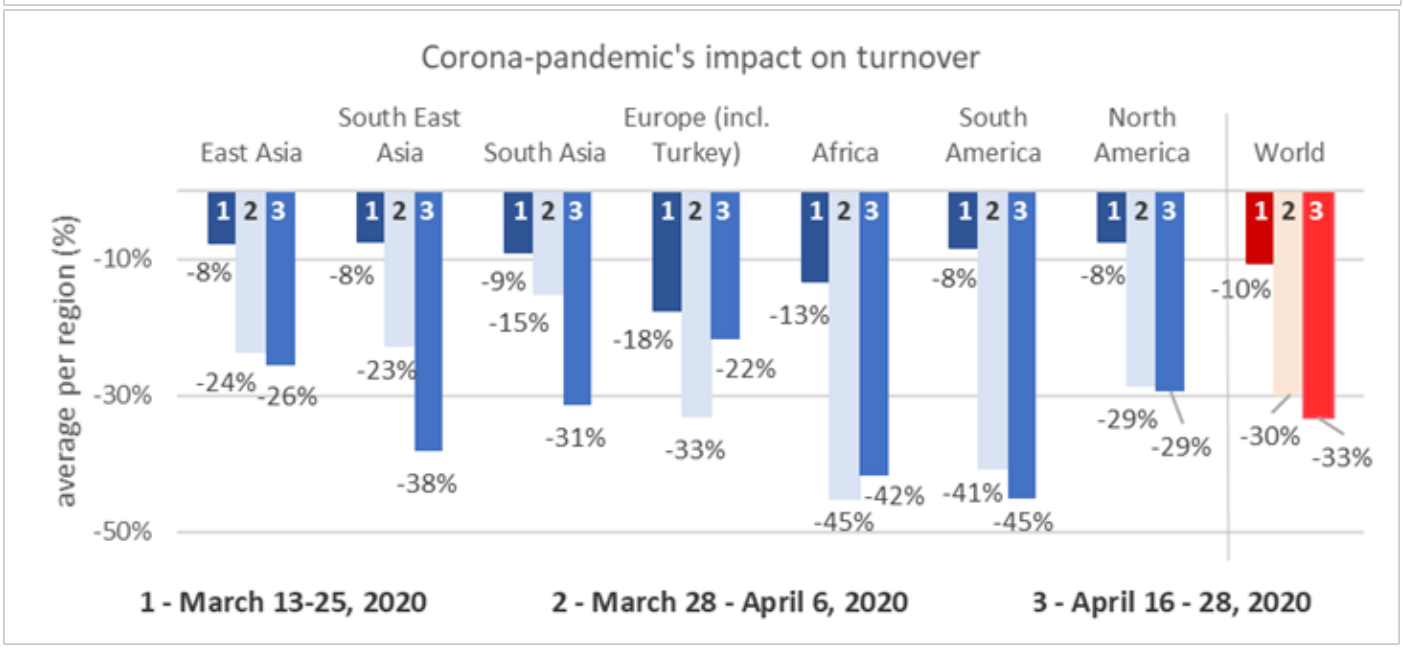
o reduction of power costs

- The biggest relief comes when retailers/brands discuss adaption to the unwinding crisis with their suppliersinstead of cancelling orders unilaterally

ITMF, April29th, 2020

www.textiletimes.com





ITMF's Cotton Contamination Survey 2019
Contamination Level up and Stickiness Level down compared to 2016

"ITMF's Cotton Contamination Survey 2019 shows that the level of contamination of raw cotton by foreign matters and the appearance of seed-coat fragments have increased compared with 2016, underscoring the importance of clean cotton to spinners. At the same time the level of stickiness has fallen slightly to the lowest level. Furthermore, the survey reveals that there are significant differences between cotton varieties when it comes to the level of contamination." These are the main conclusions to be drawn from the "Cotton Contamination Survey 2019" which has just

been released by the International Textile Manufacturers Federation (ITMF). This 15th edition covers 128 spinning mills located in 25 countries which evaluated 81 different cotton growths.

Contamination – increase

The level of cottons moderately or seriously contaminated as perceived by the spinning mills from around the world grew from 23% in 2016 to 26% in 2019. A closer look at the extent of the contamination shows that 7% (2016: 7%) of all cotton evaluated were seriously contaminated by some sort of foreign matter whereas 18% (2016: 18%) were only moderately contaminated. As the summary data are arithmetic averages of the different contaminants, the extent of contamination is fully illustrated by the results for the individual contaminants. They range from 6% all cottons processed being moderately or seriously contaminated by "tar" to 55% of them being moderately or seriously contaminated by "organic matter", i.e. leaves, feathers, paper, leather, etc. Other serious contaminants are "strings made of plastic film" (39%), "fabrics made of plastic film" (39%), "strings made of woven plastic" (36%) as well as "fabrics made of woven plastic" (31%). The most contaminated cotton descriptions considered for the survey originated in India (MCU-5, J-34, India-Others, DCH), Pakistan (NAIB, Pakistan Others, MNH93), Tajikistan (Medium Staples) and Mozambique. In contrast, very clean raw cottons were produced in Australia, the USA, (Memphis Territory, California, Pima, South Eastern, Texas H. Plains and Arizona), Argentina, Brazil and Spain.

Stickiness – slight decrease

The presence of sticky cotton as perceived by the spinning mills is close to constant (i.e. 16% in 2016 vs. 15.7% in 2019) and remains at the lowest level since 1989. Descriptions that were affected most by stickiness were those from Sudan, the USA (Pima, USA-Others, Memphis Territory, Texas H. Plains, California, South Eastern), Mexico (Juarez) and Turkey (Turkey – Others). On the other end of the range, cottons from South Africa, Tanzania (Mwanza, Coastal), China (Shandong, Xinjiang), Mozambique, Chad, and Pakistan (MNH93, Pakistan – Others, NAIB) were not or hardly affected by stickiness.

Seed-coat fragments – increase

With regard to seed-coat fragments, the Cotton Contamination Survey 2019 shows that their appearance in cotton growths remains an issue for spinners around the world. 34% of all cotton growths consumed contained moderate or significant amounts of seed-coat fragments, a slight increase since 2016 (32%). The origins affected most by seed-coat fragments are those from Turkey (Turkey – Others, Cukurova / S.E.), India (India-Others, J-34, MCU-5), Sudan (Sudan – Others), and Pakistan (MNH93, Pakistan - Others). Countries for which the existence of seed- coat fragments were negligible included those from Tanzania (Coastal, Mwanza), India (Shankar-4/6), Australia, the USA (California, Pima, Memphis Territory, USA – Others, Texas H. Plains).

ITMF demands brands and retailers to act responsibly and sustainably

The Corona-pandemic has revealed how extended the textile value chain is from producing fibres to the finished consumer products offered by brands and retailers around the world. Fibres can be produced in one country, yarns spun in another; fabrics are woven or knitted yet in another country before the final garment is sewn and shipped across continents.

The textile value chain is only as strong as the weakest link in it.

It is important to realize that in a situation of global demand and supply disruptions, cooperation and dialogue are paramount for the entire supply chain. Our industry is facing demand shocks due to lockdowns around the world, which have posed enormous challenges to the retail industry. Passing the loss and pain to suppliers by cancelling orders cannot be the answer. To the contrary, cancellations will create even more problems by weakening the supply chain further.

Textile and apparel companies are willing to do their utmost part to overcome this demand shock by delaying shipments or deferring payments, when necessary. But this has to be within reasonable limits. It is imperative that brands and retailers and their suppliers cooperate closely and look for solutions that support each other.

ITMF and its national textile and apparel associations represent hundreds of thousands of companies and millions of workers across the globe. These companies and workers cannot absorb the burden alone. ITMF's recent Corona-Surveys have revealed that orders have plummeted by more than 40% globally and that turnover in 2020 is expected to be 33% lower than in 2019. The most pressing issue for most companies is liquidity. Therefore, it is essential that brands and retailers find solutions with their suppliers that allow them to pay their workers and avoid massive layoffs.

Responsible sourcing practices by brands and retailers are critical preconditions for socially compliant and eco-friendly production. Sustainability is not a one-way street; it can only be achieved, if stakeholders along the supply chain respect and treat each other responsibly.

ITMF was founded in 1904 and its members are associations and companies in the fibre, textile, apparel, home textile, textile machinery and textile chemical industry in almost 60 countries around the world, that are employing directly and indirectly millions of people.

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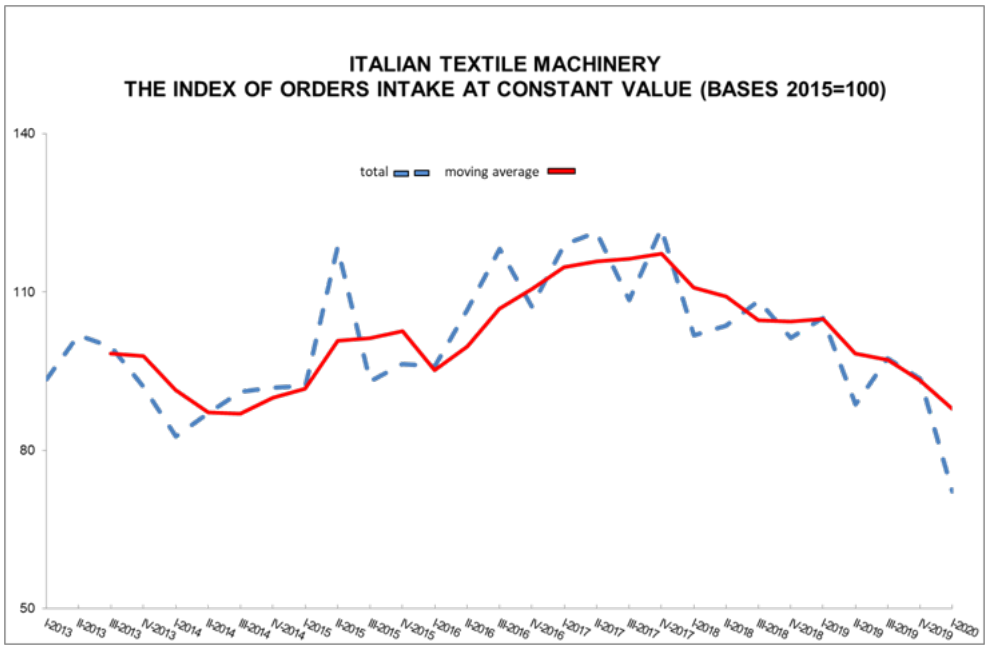
Italian Textile Machinery: Strong Decline In The 2020 First Quarter



In the first quarter of 2020, the orders intake of Italian textile machinery registered a sharp drop. The Covid-19 pandemic impacts heavily on the sector. The consequences on the orders will be more negative in the second quarter.

The index of orders intakefor textile machines drawn up by ACIMIT, the Association of Italian Textile Machinery Manufacturers, for the period from January to March 2020 fell by 31% compared to the same period of 2019. The index value stood at 72.2 basis points (2015 = 100). Orders intakewas negative both on foreign markets and in Italy. In the foreign marketsorders were down 26%, while on the domestic market they marked -57% compared to the first quarter of 2019.

"The orders index sank compared to 2019, a year already negative, Alessandro Zucchi, president of ACIMIT says. Indeedin 2019 the Italian textile machinery industry observed a decrease both in production (-13%) and in exports (-14%) compared to the previous year".

Following a difficult year, the Italian textile machinery had to face Covid-19 pandemic, which led, as a first consequence, to the slowdown of the main markets in the sector, China, Turkey and India,in the first month of 2020.

General information on Italy's textile machinery sector and ACIMIT

ACIMIT represents an industrial sector that comprises roughly 300 manufacturers (employing around 12,000 people), which produce machinery for an overall worth of around 2.3 billion euros, of which 82% are exported. Creativity, sustainable technology, reliability and quality are the hallmarks that have made Italian textile machinery worldwide leaders.

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U.S. Cotton Trust Protocol Selects Control Union Certifications as Third-Party Verification Partner

The U.S. Cotton Trust Protocol (Trust Protocol) has selected Control Union Certifications North America (CUC) to implement an independent, third-party verification program for the Trust Protocol system. CUC was chosen from six applicants following a thorough selection process.

Data about Trust Protocol cotton is proven via Field to Market, measured via the Field Calculator and now will be verified by CUC.

Control Union Certifications has certified more than 150 programs worldwide, including working as a key partner in the early development and piloting phases of Field to Market's Impact Claim Verification Protocol. CUC has also worked with the Better Cotton Initiative (BCI) on its third-party verification programs in multiple countries.

CUC auditors in the U.S. have a long history of working with corn, soy and canola on standards focused on land conversion, irrigation systems, water management, integrated pest management, soil protection, crop rotation and conservation practices.

U.S. cotton growers will complete a self-assessment of farming practices and share their field data through Field to Market's Fieldprint Platform. The CUC will verify the Trust Protocol annual data that will highlight key sustainability metrics – land use, soil carbon, water management, soil loss, greenhouse gas emissions and energy efficiency.

"We're excited to work with Control Union as our independent, third-party verification partner," said Ken Burton, Executive Director of the Trust Protocol. "Control Union's agriculture standards, experience and impeccable reputation will provide brands, retailers and consumers assurance that the cotton fiber sourced through the Trust Protocol is continually improving."

The U.S. Cotton Trust Protocol will launch in June 2020. Ahead of the June launch date, the Trust Protocol was recently added to Textile Exchange's list of preferred fibers and materials. For more information, please visit https://TrustUsCotton.org.

About the U.S. Cotton Trust Protocol

In a period of ever greater supply chain scrutiny and a growing demand for transparency, the U.S. Cotton Trust Protocol will set a standard for more sustainably grown cotton. It brings quantifiable and verifiablegoals and measurement to the issue of sustainable cotton production and drives continuous improvement in key sustainability metrics.

The Trust Protocol underpins and verifies U.S. cotton's progress through sophisticated data collection and independent third-party verification. Becoming a member of the Trust Protocol will give brands and retailers the data that provides critical assurances they need that the cotton fiber element of their supply chain is more sustainable, and free from both environmental and social risk.

Brands and retailers will gain access to U.S. cotton with sustainability credentials proven via Field to Market, measured via the Field Calculator and verified with Control Union Certifications.

The U.S. Cotton Trust Protocol is overseen by a multi-stakeholder Board of Directors comprised of representatives from brands and retailers, civil society and independent sustainability experts as well as the cotton-growing industry, including growers, ginners, merchants, wholesalers and cooperatives, mills and cottonseed handlers.

About Control Union Certifications

CUC is an international auditing company founded in the Netherlands in 2002, and now has a presence in 70 countries with 4,500 employees and over 40,000 clients worldwide, ranging from multinationals to regional producers as well as governments and NGOs.

The company has a long track record of managing certification programs, including with growers and food and agriculture companies around the world. CUC is a leader in the area of sustainability initiatives, certification standards and verifications of the outcomes based on key performance indicators.

www.textiletimes.com

Non-Woven Fabrics Market Size Worth Around US$ 77 bn 2027

Acumen Research and Consulting, Latest Published Report on "Non-woven Fabrics Market, Size, Share, Growth, Consumption, Revenue and Forecast, 2020 - 2027".

April 16, 2020 21:00 ET | Source: Acumen Research and Consulting

LOS ANGELES, April 16, 2020 (GLOBE NEWSWIRE) -- The global non-woven fabrics market is expected to reach the market value of around US$ 77 bn by 2027 and is anticipated to grow at a CAGR of around 7% in terms of revenue during the forecast period 2020 to 2027.

Non-woven fabrics are defined as sheet or web structures which are connected mechanically, thermally, or chemically by interweaving fibers of filaments. These sheets are flat and porous those are made of molten plastic or plastic film. Non-woven fabrics are not made by converting fibers into yarn or weaving or knitting. Non-woven fabrics have basic functions including absorbency, resilience, bacterial barriers, softness, stretch, strength, washability, cushioning, flame retardancy, filtering, liquid repellency, and sterility.

Asia Pacific is the largest consumer

The factors such as increasing production and capacities of the manufacturers for non-woven fabric are likely to flourish the market in Asia Pacific. China holds the largest share in the Asia Pacific, owing to increasing demand of non-woven fabric among consumers and also production of non-woven fabric. Also, textile industry is booming in China due to government supports and increasing investment for non-woven fabric. The country remains the biggest garment exporter in the world with immense manufacturing potential, its domestic over-supply, and rising global free trade have hampered the growth of market. The Chinese government has spent US$ 8 Bn for Xinjiang as the hotbed for the manufacture of textiles and clothes. The northwest of China is anticipated be the largest garment manufacturing base in the world by 2030.

Market dynamics

The rapidly growing textile industry is the major factor that drives the global non-woven fabrics market. The significant growth of textiles market is due to major shifts in changing lifestyles and convenience across the globe. Furthermore, the increase in disposable income of developing countries is the key driver to boom the non-woven fabric market. Due to mass production of non-woven fabrics it has lower initial cost compared to knit fabrics and woven. Rapid industrialization and advanced technology in textile industry are other factors which fuel the unwoven fabrics demand globally. Increased raw materials costs marginally hinder the growth of the global non-woven fabric market. Increasing raw material prices is the main challenge for the non-woven fabric market. As raw material prices increase, the global non-wovens industry faces challenges. The demand for non-woven fabrics also faced issues associated with stringent rules and regulations for textile industry.

During forecast period, drylaid technology is likely to create opportunity for major vendors in the market. Nonwoven fabrics are manufactured continuously with the support of drylaid technology. This technology therefore leads to faster belt speed and low cost. In fact, the device is used to manufacture both disposable and reusable products at a wide scale. The drylaid nonwovens are primarily used in the surgical, hygienic, automotive

and packaging industries. Owing to its high yield, i.e. fiber per kilogram, producers use polypropylene to produce drylaid non-woven. The high degree of process efficiency and excellent properties of drylaid non-woven have seen fast improvement in recent years. There is a growing market in various industries for non-woven fabrics manufactured using drylaid technology. The global non-woven fabrics market includes major players such as P.H. Glatfelter Co, E.I. du Pont de Nemours & Co, Suominen Corporation, Albarrie, Ahlstrom Corporation, Kimberly-Clark Corporation, Johns Manvile (JM), Avintiv Inc., Freudenberg SE, Toray Industries Inc., Asahi Kasei Corporation, and others.

Related Reports

- Refinery Catalyst Market - The global market size is poised to reach around US 5.8 billion by 2026 and growing at noteworthy CAGR of 3.7 % throughout the forecast period 2019 to 2026.
- Industrial Lubricants Market - The global market size is expected to reach US$ 72.4 billion by 2026, growing at noteworthy CAGR of 4.7 % over the forecast period 2019 to 2026.
- Conformal Coatings Market - The global market size is expected to reach around US$ 16 billion by 2026 and growing at a noteworthy CAGR around 5.2 % from forecast period 2019 to 2026.

Recent Developments

- In May 2018, Kimberly Clark Corporation has approved US$ 30 Mn for expanding the non-woven manufacturing plant in North Carolina. In this plant they produce non-woven materials for Kimberly-Clark's North American adult and feminine care brands.
- In June 2018, DuPont has expanded Tyvek Nonwoven's capacity, with over US$ 400 Mn of investment
- In January 2019, Johns Manville (JM) and a Berkshire Hathaway Company have announced that they have invested to expand the capacity in Defiance, Ohio, manufacturing facility.

Target Audience

- Raw material producers and suppliers
- Non-woven fabric material producers
- Non-woven fabric distributors and traders
- Governments and R&D institutions
- End-use sectors
- Associations and industry bodies
- Market research and consulting firms

Market Segmentation

Non-woven Fabrics Market By Technology

- Dry-laid
- Spunmelt
- Wet-laid
- Others (electrostatic spinning and flash-spun)

Non-woven Fabrics Market By Material

- Polypropelene (PP)
- Polyethelene Terephthalate (PET)
- Polythelene(PE)
- Rayon
- Wood pulp
- Bi-component(Bico)
- Others (binder resins, additives, and other polymers & fibers)

Non-woven Fabrics Market By Function

- Disposable
- Non disposable

Non-woven Fabrics Market By Application

- Hygiene
- Construction
- Wipes
- Upholstery
- Filtration
- Automotive
- Others (medical, geotextiles, agriculture & landscape, industrial/military, office & stationery, leisure, and shoes & leather)

Non-woven Fabrics Market By Geography

- North America
- Europe
- Asia-Pacific
- Latin America
- Middle East & Africa

Lenzing AG and Palmers Textil AG found Hygiene Austria LP GmbH for the industrial production of highquality protective masks in Austria with a monthly capacity of 12 million pieces

Sub: center of competence for hygiene established in Wiener Neudorf to support Austria and the EU in the Covid-19 crisis

- Establishment of a center of competence for hygiene to produce and further develop protective items to contain the Covid-19 pandemic
- Investment of several million euros in machinery with a monthly production capacity of 12 million pieces (standard protective masks and FFP2 masks)
- Safeguarding jobs in Austria
- High-quality, certified products made in Austria available on the market from May onwards

Wiener Neudorf - Lenzing AG and Palmers Textil AG found "Hygiene Austria LP GmbH", in which Lenzing AG holds 50.1% and Palmers Textil AG 49.9%. The newly founded company will start producing and selling protective masks for the domestic and European markets from May 2020.

Over the past few weeks, Lenzing AG and Palmers Textil AG have invested several million euros in a modern production infrastructure at the Wiener Neudorf location and secured the corresponding raw materials for protective masks production. In a first step, the company produces so-called mouth-nose protective masks (MNS) and surgical protective masks of class EN14683. Hygiene Austria LP GmbH plans to increase its capacities to over 25 million masks per month over the next few weeks and to expand this business geographically as well.

The demand for high-quality MNS and respiratory masks for medical personnel is increasing rapidly, and there is real competition on the international market for these products. In order to sustainably secure domestic supply now and in the future and to strengthen the business location, the two companies Lenzing AG and Palmers Textil AG have now set a milestone with their own competence center for hygiene based in Austria.

Hygiene Austria LP GmbH thus makes a significant contribution to combating the Covid-19 pandemic and ensures the long-term supply of these critical goods in Austria in high quality.

"We decided to pool our knowledge, network and experience in a competence center for hygiene together with our partner Palmers. The aim of this joint venture is to provide the citizens of Austria and Europe with the best possible protection through locally manufactured, high-quality products," says Stefan Doboczky, CEO of Lenzing AG. „Masks will continue to play an important role in our daily lives and we are proud that we were able to achieve our goal of an industrial production so quickly together with our partner Palmers."

Symbiosis between Palmers and Lenzing

Palmers Textil AG and Lenzing AG complement each other perfectly. Luca Wieser, member of the Board of Palmers: „We have many years of experience in the manufacture and distribution of textile products, Lenzing brings its technological experience in the hygiene sector, the know-how regarding procurement and raw material and knowledge in the field of plant engineering."

"We are not only connected by textile experience and "made in Austria", but also by the will to act quickly now and to do something for the protection of citizens - we see this as our duty to society. We are entrepreneurs and we are proud of our country," continues

Tino Wieser, member of the Board of Palmers.

„We specially want to thank our dedicated employees, who have worked day and night on the timely implementation of Hygiene Austria's production in the past few weeks," says Matvei Hutman, member of the Board of Palmers, pleased with the great commitment of all the employees. This project was also supported by Lenzing's main shareholder B&C Industrieholding and the Supervisory Board, and fits into other initiatives of B&C Industrieholding to support the Republic of Austria in health protection measures. Law firm Binder-Grösswang provided advice on the foundation of the company.

About the Lenzing Group

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

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

The business model of the Lenzing Group goes far beyond that of a traditional fiber producer. Together with its customers and partners, Lenzing develops innovative products along the value chain, creating added value for consumers. The Lenzing Group strives for the efficient utilization and processing of all raw materials and offers solutions to help redirect the textile sector towards a closed-loop economy.

About Palmers

In 1914, Ludwig Palmers laid the foundations for a remarkable company, whose success is to this day based on its outstanding track record in the fields of product, customer focus and service quality. Considered a top innovator in the lingerie sector, Palmers is the undisputed market leader in Austria with over 200 stores. The name recognition of the Palmers brand in Austria is close to 100 percent, defining the brand's iconic status. Moreover, the Palmers brand enjoys an excellent reputation far beyond Austria's borders and – due to its legendary poster campaigns – above-average name recognition as well. Today, Palmers is represented at over 300 locations in 17 countries all over Europe with its own stores,

ANDRITZ to supply high-speed spunlace line to Karweb Nonwovens, Turkey

GRAZ, APRIL 1, 2020. International technology Group ANDRITZ has received an order from Karweb Nonwovens to supply a complete neXline spunlace line for its plant located in Gaziantep, Turkey. The line is scheduled for installation and start-up at the beginning of 2021.

This new neXline spunlace eXcelle line is dedicated to the production of viscose and polyester wipes as well as biodegradable wipes. The production capacity can be up to 18,000 t/a.

ANDRITZ will provide a full line with state-of-the-art equipment – from web forming to drying. The scope of supply includes the complete opening and blending machinery, two inline high-speed TT cards, a proven JetlaceEssentiel unit (including a water filtration unit) for hydroentanglement, a neXdry through-air dryer, and a neXecodry S1 system for energy saving.

This order confirms the strong and successful relationship between ANDRITZ and Karweb Nonwovens. In 2017, ANDRITZ supplied a spunlace line to Karweb for production of roll-

goods made from several types of fibers, such as polyester, viscose, Tencel, cotton and polyamide.

Karweb Nonwovens, founded in 2013, is a division of Kara Holding and the first and only Turkish manufacturer of airlaid products for health care, hygiene and special disposable materials. The company serves customers worldwide.

ANDRITZ GROUP

International technology group ANDRITZ offers a broad portfolio of innovative plants, equipment, systems and services for the pulp and paper industry, the hydropower sector, the metals processing and forming industry, solid/liquid separation in the municipal and industrial sectors, as well as animal feed and biomass pelleting. The global product and service portfolio is rounded off with plants for power generation, recycling, the production of nonwovens and panelboard, as well as automation and digital solutions offered under the brand name of Metris. The publicly listed group today has around 29,500 employees and more than 280 locations in over 40 countries.

"A very big thank you to all our customers and employees for their trust"

Remscheid, April 23, 2020 – staggered in terms of timing and with varying magnitude, the global spread of coronavirus is impacting the development of the regional economies in the core markets of the Manmade Fibers segment of the Swiss Oerlikon Group. In the current times, the world market leader for manmade fiber systems for manufacturing polyester, polypropylene and nylon however believes itself to still be well positioned thanks to long-term strategic customer investments, simultaneously also exploiting numerous opportunities for change arising from the coronavirus pandemic.

The sales markets for manmade fiber systems and equipment have been primarily located in China, India and Turkey for many years now. Together, these markets – above all China – make up the lion's share of the project landscape at Oerlikon Manmade Fibers.

And this is paying positive dividends at the moment. Because the production facilities of the major manmade fiber manufacturers in China have been systematically fired up again over the past few weeks, with capacity utilization increasing consistently. New projects are being discussed.

Going against the flow

But why is it so? And why is the manmade fiber industry currently practically going against the flow of the rest of the textile machine industry?

The reason is very simple: "Long before the coronavirus situation developed, the major manmade fiber manufacturers in China had decided to reverse-integrate their production chains to include petrochemicals in order to expand their portfolios with targeted investments, to reduce their dependence on a ‚single product', to optimize their costs and ultimately to acquire greater control over margins in a global volume business", explains Segment-CEO Georg Stausberg. Similar processes and decisions – albeit not on the same scale as in China – have also been detected at the large manmade fiber manufacturers in India and Turkey.

While China is already pursuing and implementing its 'From Oil to Yarn' business model, the other market players are currently still focusing on the 'From Melt to Yarn' concept. Even though businesses in India and Turkey are presently still temporarily severely impacted by the coronavirus situation, their long-term commitment cannot however be questioned, as the company-internally-agreed master plans will be systematically implemented moving forward.

Long-term investments of global market players

All this has recently resulted in increased demand for spinning and texturing systems – just like those supplied by total solutions provider and world market leader Oerlikon Manmade Fibers with its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven product brands.

"The investments in petrochemical systems are based on long-term strategic considerations and are resulting – even during the coronavirus pandemic – neither in short- and medium-term economic dips, nor in changed customer behavior. For these reasons, we are currently continuing to look positively towards the future at Oerlikon Manmade Fibers. With orders on our books until 2023, we have created a very good cushion for ourselves. We have to thank all our customers, who have consistently placed their trust in us despite the challenging times we are currently in. We would also like to thank all our employees

who remain highly-committed at their mobile workstations at home, servicing the markets throughout the world, providing customers with intensive online consultation on technology questions by means of video conference, continuing to manufacture our high-end technological products in superlative quality under the given coronavirus protection measures at our assembly and production sites worldwide and successfully assembling and commissioning the systems on-site, in part also remotely in collaboration with our clients' staff", states Segment-CEO Georg Stausberg with pride.

As a result of Oerlikon Manmade Fibers delving into the digital age years ago, the segment has experienced the intensive and short-term benefit from all the measures, in part also in its processing of customer projects. "Admittedly, the coronavirus situation has accelerated this digital transformation to an extreme extent. But it is working and the coronavirus crisis will also allow us to take many positive experiences we have made in our digitally-networked world with us moving forward", concludes Stausberg.

Caption: Georg Stausberg, CEO of the Oerlikon Manmade Fibers segment, has been running the global market leader for manmade fiber systems since 2015. Between 2012 and 2014, he was the segment's CTO and COO. Georg Stausberg was CEO of the Oerlikon Neumag business unit between 2008 and 2012. Between 2000 and 2008, he ran the After Sales Division and the Gear Pump Division of Oerlikon Barmag. Between 1989 and 2000, Georg Stausberg was active as an R&D Engineer at Oerlikon Barmag. Georg Stausberg has a degree in mechanical engineering (Dipl.-Ing.) from RWTH Aachen University in Germany.

About Oerlikon

Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corporation continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities.

Oerlikon is a globally-leading technology and engineering corporation, operating its business in two segments (Surface Solutions and Manmade Fibers) and employing around 11,100 members of staff at 182 sites in 37 countries worldwide. In 2019, Oerlikon generated sales of CHF 2.6 billion and invested more than CHF 120 million in research & development.

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, the Oerlikon Manmade Fibers segment is the world market leader for 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 segment – with just under 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.

Materials for in excess of one million protective masks

Neumünster, April 30, 2020 – within the context of supporting the critical infrastructure in Germany, Oerlikon Nonwoven immediately began converting its laboratory systems in Neumünster to manufacture nonwovens at the end of March. With this, only small local businesses and companies were initially supported in the manufacture of oronasal masks. The laboratory system at the R&D Center is normally used solely for research and development purposes and customer trials. It was never conceived for continuous operation in its original form. Now, Oerlikon Nonwoven has made further investments in order to enable continuous operation in the laboratory. With this, material for more than one million protective masks a month can be manufactured.

"Since the beginning of the coronavirus crisis, we have received more than 500 inquiries that we are progressively dealing with. To be quite honest, we had initially not anticipated such tremendous interest.

But the demand is there and we quickly further adapted to the challenge", states Andreas Frisch, Head of Operations at Oerlikon Nonwoven. The laboratory has meanwhile run out of raw materials and new orders for replacement materials had to be placed before Easter – with current delivery times of approx. 3 weeks. This will allow production to be resumed, and even considerably expanded, in May.

The laboratory system is now once again being deployed to produce nonwovens that will be used to make more than million face masks / oronasal masks a month, nonwovens of the very highest quality.

"We will not be manufacturing the masks ourselves. We have meanwhile found both corresponding partner companies and also private individuals demanding nonwovens", adds Andreas Frisch, commenting on the developments.

Boom in orders

Furthermore, Oerlikon Nonwoven has also fired up the production of the machines and systems used for its meltblown technology. The demand from Germany, Europe and the rest of the world has quickly secured the company a boom in orders. "In the meantime, we have been able to sign orders in the mid-range double-digit millions. We have adapted our delivery times as much as possible and will – this is our objective – start delivering the additional orders for nonwovens systems from the fall", explains Rainer Straub, Head of Oerlikon Nonwoven. We will be commissioning the first meltblown system at the site of a leading Western European nonwovens producers in the second quarter of 2020.

This system will be deployed exclusively in the manufacture of nonwovens for respiratory masks.

The Oerlikon Nonwoven Meltblown technology – with which nonwovens for respiratory masks can also be manufactured, among other things – is recognized by the market as being the technically most efficient method for producing highly-separating filter media made from plastic fibers. The capacities for respiratory masks available in Europe to date are predominantly manufactured on Oerlikon Nonwoven systems.

About the Oerlikon Manmade Fibers segment

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How the intelligent Truetzschler Card TC 19i improving quality and productivity of Badsha Textiles Ltd?

Badsha Textiles Ltd., a world-class yarn manufacturer of grey fabrics and leading textile conglomerate in Bangladesh has a turnover of $258 million. This company has always tried to equip itself with state-of-the-art machinery and technology to produce carded yarn (knitted), slub/ fancy yarn, core yarn, ring denim and open-end yarn which are its main products.

In order to continue the legacy of their quality yarn spinning, Badsha Textiles Ltd. chose Truetzschler, a German machinery industry company's latest development of carding machine- TC 19i.

In 2019, they first imported this machine and within this short period of time they have experienced great advantages. To know more about the machine and the experience with it,

Textile Today has recently talked with Herbert Mehl, Country Manager (Bangladesh and Vietnam), Truetzschler, also visited Badsha Textiles Ltd and met Md. Mashiur Rahman, General Manager to know about their carding line.

Textile Today: Tell us something about the intelligent Truetzschler Card TC 19i.

Herbert Mehl: Over the years we have developed a great team in Bangladesh to assist our customers. We provide customers with wire management, troubleshooting, customer training and all the technical supports.

The new carding machine Truetzschler Card TC 19i is an absolutely wonderful machine for the spinners as it is unbelievably economical and give them the right benefit.

One of the exclusive features of the new machine is an automatic waste collection, which will minimize the cost of waste collection and only the right fibers will get into the carding machine. No good fibers will be lost in the licker-in. Truetzschler Doffer Suctionhood is designed to catch the flies on the doffer resulting in reducing 50% yarn cut thus minimizing waste.

One of another wonderful features is Gap Optimizer T-GO: Maintaining An optimal and precise carding gap even under changing production conditions. And the Gap Optimizer T-GO process is fully automatic and it takes only 10 seconds.

Nep Control is another feature to be mentioned. Nep Control ensures permanent nep level control in carding web and transfer of monitoring data of multiple cards for easier and faster cleaning. Truetzschler has developed the new MAGNOTOP 3 system together with Truetzschler Card Clothing.

MAGNOTOP 3 eliminates the need for a flats workshop and prolongs the service life by one grinding cycle. Another revolutionary include is the automatic fast flat setting system where everything will be done automatically.

For the operator, the most important instruments for controlling the TC 19i are:

- Multi-touchscreen
- LED remote display
- RFDI sensor for identification

The operator can read the operating status of the machines at a glance from the T-LED remote

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Textile Today: How is Truetzschler Card TC 19i improving quality and productivity of your factory?

Md. Mashiur Rahman: In the arena of carding, Truetzschler's latest development- TC 19i is a fantastic machine. Those who are doing ring spinning with Trutzschler have unparallel production to others as it has some striking features.

The gap between cylinder and flat is very crucial for maintaining quality. Before using TC 19i, the gap was optimized manually by skilled hands after dismantling the machine. But now it is done using software efficiently and precisely. In conventional machines, the minimum gap which we could get was 3 thou (thousandth of an inch).

Now it is possible to get 1 thou in TC 19i which is a great step forward. The advantage of quality adjustment in a running carding machine was quite unimaginable before. But in TC 19i it can be done effortlessly. In terms of productivity, we can increase the production per kg without less hassle compared to the previous versions where we had to consider several factors.

Now we don't need to stop the machine for maintaining the quality which helps us to save time and as a result we have reached higher productivity.

Textile Today: Can you please share the advantages you are getting after using Truetzschler card TC 19i?

Md. Mashiur Rahman: When the wastage goes to licker-in, many good fibers also goes with it. This loss is not always possible to control. But Truetzschler has equipped such a technology that senses the good fibers and plays the knife setting automatically.

Thus, the fiber loss tendency has been decreased. In the doffer side, they have developed neps control sensor which is not available in other carding machines. If any industry doesn't have USTER or AFIS, they can easily check and guess their output quality.

How web comes, how much Neps, seed coat, fly are in the web can be monitored here. Thus, it can produce quality sliver. For their development in the doffer side, the short card has been decreased from 30-50 percent which has a great impact in the output quality.

Textile Today: How does Truetzschler support you while facing any difficulties to operate their machine?

Md. Mashiur Rahman: They come and take care of their products routinely. Their product and service both are outstanding.

Textile Today: What makes TC 19i different from others?

Md. Mashiur Rahman: The difference between other machines and Truetzschler are very big in terms of blow room and carding. Truetzschler is gradually gaining their place in the factories.

Textile Today: Do you recommend TC 19i for other spinners in Bangladesh?

Md. Mashiur Rahman: Of course. The ones who want to make quality product, Truetzschler Card TC 19i is for them. It's also recommended for higher production. For instance, our machine line capacity is 1000 kg/hr, we are running 1200-1300 kg/hr without compromising the quality.

Textile Today: Do you have plan to order more TC 19i in recent future?

Md. Mashiur Rahman: Yes, after a meeting with our MD, we have already decided to buy 12 more TC 19i in near future. We hope this will benefit us more in terms of quality and production.

Fancy intermingling option

This option creates commingled yarn with fancy color effects. It is available for the DP5-T, making this machine even more versatile, and for the new SSM air-covering machine, the XENO-AC. It consists of a high-speed valve attached to an intermingling jet body that stops and restarts the air flow at a very high pace.

The principle is not new, but

its availability on SSM single-position machines makes it much more attractive for users. Intermingled fancy yarns are generally produced in small to medium lot sizes. There is no need to dedicate a complete machine side for producing a small quantity, rather, only the necessary positions are used, which gives users the added flexibility they want.

Several types of fancy effects can be combined, for instance slub and VARIO, to produce even more complex design effects. Slubs in conjunction with VARIO effects can also be combined with the elastane feeding device to produce elastic air-textured yarns. The whole range of SSM devices and options allows for new types of designs, directly at the yarn stage, making the downstream processes (weaving, knitting) simpler and giving yarn producers powerful means of diversifying their offer and enhancing their competitiveness.

The ultimate technology for compact yarn production

Despite the high quality of modern ring spun yarns a further increase in yarn quality can be obtained through compact spinning technology says Marzoli.

In fact in the standard ring spinning process the fibre bundle coming out from the front cylinder is wider than the spinning triangle. This entails that edge fibres are usually caught in a disordered way into the yarn.

Modern compact technology allows to reduce the width of the fibre bundle before it comes out from the front cylinder and therefore it allows to integrate every fibre into the yarn structure.

This grants the following benefits:

- Reduced yarn hairiness

- Enhanced yarn evenness

- Higher strength and elongation values

- Less variability in yarn strength and elongation

- Lower required twist on the spinning frame (higher production)

- Reduced fibre fly in weaving and knitting operations and consequently fewer defects on the

fabrics and higher efficiency

- Enhanced fabric properties (fabric strength, abrasion resistance, pilling behaviour, visual and tactile characteristics)

Comparison between standard ring yarn and Mac3000 compact yarn

The positive effects of compact systems have fostered spinners to use them for the production of an increasing variety of counts and types of yarn, benefitting from higher output quality and process efficiency.

Perforated cylinder vs. apron systems

The most effective way to undertake compaction is through suction and there are two types of devices that allow to suck the fibre bundle: those with a perforated cylinder and those which use aprons. The systems with perforated cylinders have the advantage that they do not require aprons change. Aprons in fact are subject to wear and they need to be periodically substituted. On the other hand, they have the disadvantage that they need to be supervised and constantly cleaned. If this is not done on regular basis fibre particles can clog the holes of the perforated cylinder and alter compaction performance. With some, but not all, apron systems this is not necessary. The holes are automatically cleaned because the constant tension, flexion and relaxation of the apron continuously modify the cross section of the holes entailing an "auto-cleaning effect".

Marzoli's Mac3000 features

The new Mac3000 is a highly-innovative, state-of-the-art compact system designed and developed by Marzoli.

Besides being one of the few apron systems which have the "auto-cleaning effect" of the apron described in the previous paragraph, its compacting zone is perfectly visible. This grants an easy supervision of the core area of the device.

The outstanding compacting performance is also assured by the independent modular suction system with large suction tubes and self-cleaning filter. Together these features guarantee constant suction along the entire length of the machine. Furthermore, the speed of the suction motor is settable through inverter so that the right suction amount can always be set according to count, type of fibre, desired efficiency and quality trade-off.

The accurate design of the Mac3000's apron not only guarantees top compacting performances, but it also ensures lower maintenance costs. The disposition of the holes on one axis assures higher resistance of the apron to tension forces and consequently a longer service life of the component.

Conclusion

Since its launch on the market compact spinning has thrived. The advantages that this process entails, if compared to standard ring spinning, are: higher yarn quality, higher process efficiency and greater productivity at the spinning frame. Therefore, compact spinning can be identified as a valuable means to differentiate and achieve a sustainable competitive advantage.

All the benefits that stem from compact spinning are further enhanced by the new Mac3000, the ultimate compact technology designed, developed and produced by Marzoli. With this device the client can rely on a solid and consistent technology that constantly ensures top compacting performances with low operating costs and long service life of all its components.

KARL MAYER enables the automated production of textile face masks in Germany

In many places, face masks are now an essential item on the agenda of the compulsory programme relating to the exit from the corona lockdown. These masks are required in large quantities, but they are scarce goods. In view of the massive shortage of masks, the textile machinery manufacturer KARL MAYER reacted quickly, and together with partners for production and testing, set up a highly efficient production in Germany for Germany in record time. One machine made by KARL MAYER enables the production of roughly a quarter of a million masks per month.

This innovative company based in Obertshausen initially developed face masks that can be made on KARL MAYER machines in high numbers and in a one-step production cycle. In other words: the masks are produced entirely without the need of any sewing work. Two models are available for the various demands.

Type 1 is produced at short notice and is suitable for everyday life. Due to their 3D shape, these masks have a tight fit and good wearing properties. They offer a convenient air exchange, a soft skin feeling, and prevent friction points on the ears, even after long-term use. The masks can be reused after their utilization. Simply wash and dry them, and the next application can start immediately.

Type 2 provides all the advantages of type 1, but it can be equipped with a replaceable nonwoven lining via a pocket. This increases the filtration capacity, at the same time ensuring minimum waste after use.

Regarding the filtering effect, the certification process is currently underway for a medical standard for both mask types.

To ensure a fast use of the face

masks in Germany, KARL MAYER equipped its customer zwissTEX with the required machine technology and the instructions for the production of the masks.

Once the installed KARL MAYER machine is running at full speed, it is possible to produce up to 400 masks per hour or 240,000 pieces per month. At the same time, KARL MAYER is working on reducing the production time for additional machines, so that capacity can be increased as quickly as possible. „By mid-May we can achieve a production of up to half a million masks per month. We are pleased that we can contribute to more safety for people with our know-how and our machines. Further developments, such as mask sizes for children, are in preparation“, explains Oliver Mathews, Sales Director of the Warp Knitting Business Unit at KARL MAYER.

Plaster grid warp knitted fabric for the billion-Euro market in China

The WEFTTRONIC® II G for glass processing is now taking off in China, too

KARL MAYER Technische Textilien has developed a new warp knitting machine with weft-insertion and thus further differentiated its range offer in this field. The new model, the WEFTTRONIC® II G, is specifically designed to produce light to medium-heavy grid structures.

The stable grid textiles are used as plaster grids and geogrids, as well as carriers for grinding discs – and are produced extremely efficiently on the WEFTTRONIC® II G. Geogrid fabrication is now 60 % more productive compared to the previous version. In addition, less expensive yarns can be processed into high-quality textiles: the textile glass fibre material can cost up to 30 % less than leno fabric production. The machine handles technical yarns extremely gently. Its performance is also impressive. The first WEFTTRONIC® II G was ordered by the Polish manufacturer HALICO in early 2019, followed by orders from China in December. “During our most recent trip to China just before Christmas, we were able to win over two new customers for our company,” said Jan Stahr, Sales Manager of KARL MAYER Technische Textilien. Both companies, Shandong Qiyad and Zibo Glasstex (Shandong Fiberglass), are major players in the industry. After purchasing one machine each, they hinted that they may invest in further WEFTTRONIC® II G models.

An influential family company

Shandong Qiyad is a company privately owned by the Ma family. Mr Ma Xingwang Senior holds shares in two other companies, led by his son and nephew respectively. The companies use around 750 rapier looms in total for their production and thus offer efficiency potential: Depending on product quality, between 13 and 22 rapier looms can be replaced by just one WEFTTRONIC® II G. KARL MAYER Technische Textilien offers intensive service support to ensure a seamless changeover to new technology and to a stateof- the-art machine. The strong partnership led to further recommendations. “During our meetings, the Ma family also introduced us to other potential customers,” says Jan Stahr. The native region of Shandong Qiyad, Shanxian (Shandong Province), is well known for its plaster grid

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production. Around 5000 rapier looms are in operation here. The companies are all part of an association. Jan Stahr is already in the process of scheduling a pilot system with some of these companies.

A state-owned company with vertically integrated production

The state-run Zibo Glasstex is better known as Shandong Fiberglass. The company has made a name for itself internationally as a manufacturer of glass fibres, rovings and textiles. It is among the top 5 manufacturers of glass fibres in China. The company's customers in this sector include manufacturers in Eastern Europe who are already operating machines by KARL MAYER Technische Textilien. Following the successful introduction of the technology with the first WEFTTRONIC® II G, Zibo Glasstex plans to invest in further machines. According to the company's own information, it intends to work a market with an annual volume of 2 billion m² of textile glass fibre material and to achieve a significant market share. Zibo Glasstex therefore intends to invest in further machines in the mid-term.

Flexibility put to the test

In order to gain a better understanding of the possibilities relating to glass grid structure production, the new WEFTTRONIC® II G machine will be available for customer trials at KARL MAYER (CHINA) in Changzhou from June 2020. A wide range of equipment options and patterning possibilities will be available to suit a diverse manufacturing process. The different offers can be tested as part of these processing trials. While working on the machine, customers can get a feel for how the design of the fabric influences

its properties and product output, and how this correlation can be used to achieve greater efficiency. If, for example, the square cells of a textile grid are formed with a low warpthread stitch density, the weft threads have a significant freedom of movement within the structure. The fabric is relatively unstable, but is manufactured with a high output. Glass grid manufacturers looking for greater efficiency can use the WEFTTRONIC® II G at KARL MAYER (CHINA) to produce warp knitted fabrics with the same properties as their existing products and thus investigate whether there are any advantages. The performance profiles of the textile products are verified by corresponding laboratory values. Companies with vertically integrated production particularly welcome the opportunity to test the machine out. In addition to textiles, they also produce textile glass fibre materials and can therefore test how their own yarns are processed. The trials are competently supervised by KARL MAYER's trained technical staff. The WEFTTRONIC® II G is based on a technology unfamiliar to many glass grid manufacturers. During these trials, they can also discover how user-friendly the new machine is.

Warp knitted power jersey for innerwear

Traditional fabric, new production – JERSEY EVOLUTION

Warp Knitting technology is one of the most versatile technologies in textile production. A wide range of machine gauges, yarns, and possible patterns facilitates the production of countless different textiles with special properties.

Typical products from other textile manufacturing technologies can be used and combined with the technological advantages of warp knitted textiles – as demonstrated by the outcome of KARL MAYER's latest textile product development. Perfectly timed for Interfiliére in January 2020, the innovation department has developed a collection of warp knitted jersey fabrics titled JERSEY EVOLUTION. The production equipment used is the high-performance warp knitting machine HKS 2-S. "With these innovative jersey warp knitted fabrics, we want to open new doors in the world of innerwear, or fabric worn close to the skin,"

said Textile Technician Melanie Bergmann. The particular benefits of these new fabrics include a soft, sleek feel that's fine and smooth to touch, with high elasticity but resistance to permanent loss of shape, as well as smooth, free-cut edges. These characteristics are backed by specially chosen machine configurations and lapping technology: the very good recovery capacity of the bi-elastic fabric is created by implementing a two-needleoverlap. Thanks to a special meshing of the elastane threads, firm and straight edges are created which have a very low or zero tendency to curl. The chosen lapping, together with a high machine gauge, ensure a smooth, fine surface and a flowing fall – or a look and feel customary to circular knit fabrics. But in comparison to circular knit, the manufacturing process of the highly elastic, warp knitted power jersey is substantially more productive. A HKS 2-S boasts the same output as around 2.5 circular knitting machines. This high-performance warp knitting machine also offers advantages with regards to spare parts. The needle leads in warp knitting machines can last up to six times longer than those in circular knitting machines. Thanks to this long usage cycle, costs for a set are halved, which results in running costs being lowered considerably. JERSEY EVOLUTION garnered a lot of attention at Interfiliére with its impressive performance. "We had many conversations with representatives from international lingerie labels. There were also some knitwear manufacturers among them, who wanted to learn more about the technology and its possibilities," explained Gabriela Schellner, Senior Manager of Textile Technology at KARL MAYER.

SHIMA SEIKI Releases Additional Mask Data

Core Business:

Development, manufacture, sales and service of WHoLEGARMEnT® knitting machines, computerized flat knitting machines, glove and sock knitting machines, computer graphic apparel design systems, apparel CAD systems, computerized fabric cutting machines (CAM), textile printing machines and other related peripherals.

Company Profile:

SHIMA SEIKI MFG., LTD. of Wakayama, Japan is a leading manufacturer in the computerized flatbed knitting machine industry. With complete systems integration from planning, production to sales promotion and retail sales, SHIMA SEIKI has been dedicating its products and services to the knitting industry worldwide through the latest in computerized knitting technology.

SHIMA SEIKI is also the pioneer in complete garment manufacturing technology—called WHoLEGARMEnT®—wherein an entire knitted garment is produced on the knitting machine without the need for linking or sewing afterward. Since its commercial introduction in 1995, SHIMA SEIKI has been the undisputed leader in WHoLEGARMEnT® knitting technology with 35 years of on-going research and 25 years of proprietary field experience and know-how, not to mention over 2,500 related patents and patents pending worldwide.

Meanwhile SHIMA SEIKI's SDS-onE APEX series 3D design system features ultra-realistic knit simulation for creating virtual samples. Virtual samples minimize time, cost and material associated with the sample-making phase. Virtual samples can also be used to gauge consumer response to items before going to market, effectively permitting production based on demand forecasting. Inventory can therefore be optimized to minimize leftover stock, realizing smart, speedy and sustainable production.

SHIMA SEIKI Releases Data for Several More Knitted Masks

In light of the worldwide shortage of surgical masks due to the continuing spread of the CoVID-19 coronavirus infection, leading flat knitting solutions provider SHIMA SEIKI MFG., LTD. of Wakayama, Japan has released knitting data for 9 more versions of knitted masks to be produced on a variety of its computerized knitting machines. These are in addition to the various mask data the company has been releasing by the company since 19th March, bringing the total number of versions of the masks to 19.

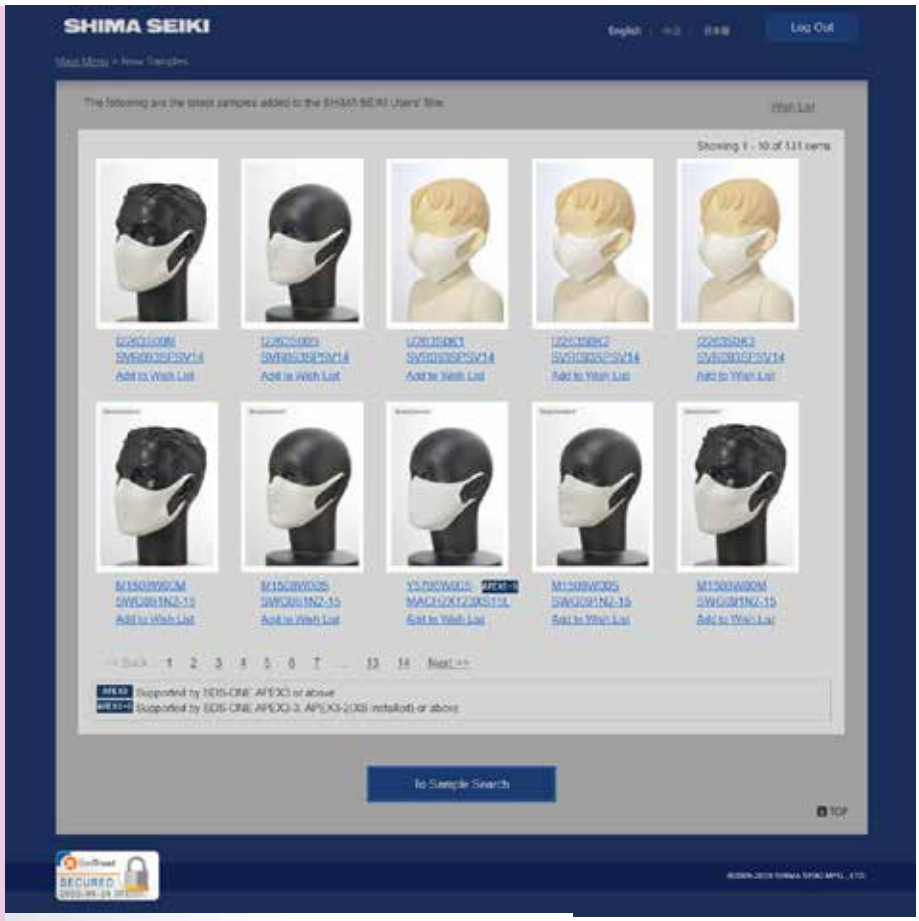
Data released this time consists of cotton masks to be produced on both WHoLEGARMEnT® knitting machines as well as conventional shaping machines. one type of WHoLEGARMEnT® mask data is meant for production on SWG041n2, SWG061n2 and SWG091n2, as well as on the rest of SHIMA SEIKI's compact WHoLEGARMEnT® knitting machines also known as "WHoLEGARMEnT® Mini" machines that are suited to production of small accessory items, in 15 gauge.

Another type of WHoLEGARMEnT® mask data is meant for production on the MACH2XS series flagship WHoLEGARMEnT® knitting machines featuring four needle beds, in 15L. Shaped knit mask data is meant for production on SVR093SP as well as the rest of SHIMA SEIKI's computerized knitting machine lineup equipped with the moveable sinker system, in 14 gauge. Users with machines that match the above criteria can download the mask data from the SHIMA SEIKI Users' Site, an

archive featuring over 10,000 knit samples for use by SHIMA SEIKI customers. By releasing mask data for a range of different machines, the company aims to alleviate the shortage of masks as much as it can by allowing production of masks by as many of its customers as possible. With this release smaller sizes for children have now become available as well, in 3 sizes.

Each of the masks whose data is released this time is a 3D form-fitted mask providing superior fit and comfort. Integral ear straps that are knitted along with the mask portion reduces stress on the ears, and require no further sewing for quick response production. A filter-pouch is knitted-in for inserting commercially available virus filters and other filtration fabrics. Holes are also knitted-in for insertion of wires that provide further adjustment for improved fit.

Knitted cotton masks can be washed and reused repeatedly. It should be noted however that unlike common nonwoven surgical masks, knit masks do not have virus- and pollen-filtration functionality. Their main use is for prevention of spray from coughing and sneezing, and for reducing exposure to allergens.



Loepfe

New CEO appointed at Loepfe

Loepfe announced today the appointment of Dr. Ralph Mennicke as Chief Executive Officer of Loepfe Brothers Ltd., effective from April 14, 2020. Ralph Mennicke takes over from Maurizio Wermelinger who, having joined Loepfe in 2007, became CEO in 2009 and is now retiring.

The Loepfe Board of Directors appointed Ralph Mennicke as CEO to lead the company and its subsidiaries. Loepfe is the worldwide leading manufacturer and solution partner for online quality assurance systems in the textile sector. Machine manufacturers as well as spinning mills and weaving mills around the globe use and rely on Loepfe technology from Switzerland.

Ralph Mennicke is a Graduate of Technical University of Munich, University of York, Mannheim and ESSEC Business Schools. He holds an MSc and PhD in Physics and an Executive MBA. Previously, Ralph Mennicke has held positions as CEO, Deputy CEO, General Manager and Product Manager, as well as interim Head of Technology, Product Management and Marketing.

Since completing his PhD, Ralph Mennicke has contributed to technology, product and market expansion and acquisitions, as well as providing inspired and effective leadership during times of crisis in his previous company. In his quest to set industry benchmarks and deliver quality improvement for customers, Ralph Mennicke has also been heavily involved in global standardization activities within the sensor and measurement fields.

Loepfe CEO Dr. Ralph Mennicke said: "Despite the current difficult business environment as I begin my role as CEO of Loepfe, my commitment to taking our business and our people on a journey where we will seek to grow and grasp future upsides has never been greater. As in my previous roles, at Loepfe my strategy will continue to focus on leveraging committed talents, superior technology and unique market knowledge to gain and maintain a competitive edge in the markets.

It is my very good fortune to be joining Loepfe from a company now experiencing a dynamic growth environment, and also to follow Maurizio Wermelinger who led Loepfe for more than a decade and established the company's reputation in the textile industry with some world-leading product brands. As well as Maurizio, I also thank the Loepfe Board of Directors and the Loepfe team for placing their trust in me to lead them through this tough period."

Loepfe Executive Chairman Alexander Zschokke commented: "The Loepfe Group extends a big thank-you to Maurizio for his long, loyal and successful lead of the company, as well as a very warm welcome to Ralph. We are delighted to have Ralph on board to steer Loepfe through the challenging phase arising from the COVID-19 pandemic, and beyond. Furthermore, we are confident that Loepfe is in a strong position to emerge from this time with renewed vigour and sustained growth."

Dr. Ralph Mennicke

AIRTRONIC – protective mask testing kit

Differential pressure & Particles filtering tester for medical & respiratory mask testing

Mesdan's AIRTRONIC is one of the most popular Air Permeability tester on the market. Following the COVID-19 crisis and market demand for protective medical mask testing Mesdan developed a "Medical mask testing kit" according to EN 14683:2019 and ASTM F2100:2019 (both referring to differential pressure, measuring the pressure difference above and below the specimen. Used mainly for surgical masks) as well as EN 149 (PFE- particles filtration efficiency. Used mainly for respiratory masks like FFP1, FFP2, FFP3).

With the new Kit both fabric and ready-made mask can be tested, the Kit could be either integrated into a new AIRTRONIC or installed onto an existing AIRTRONIC.

FERRARO S.P.A.
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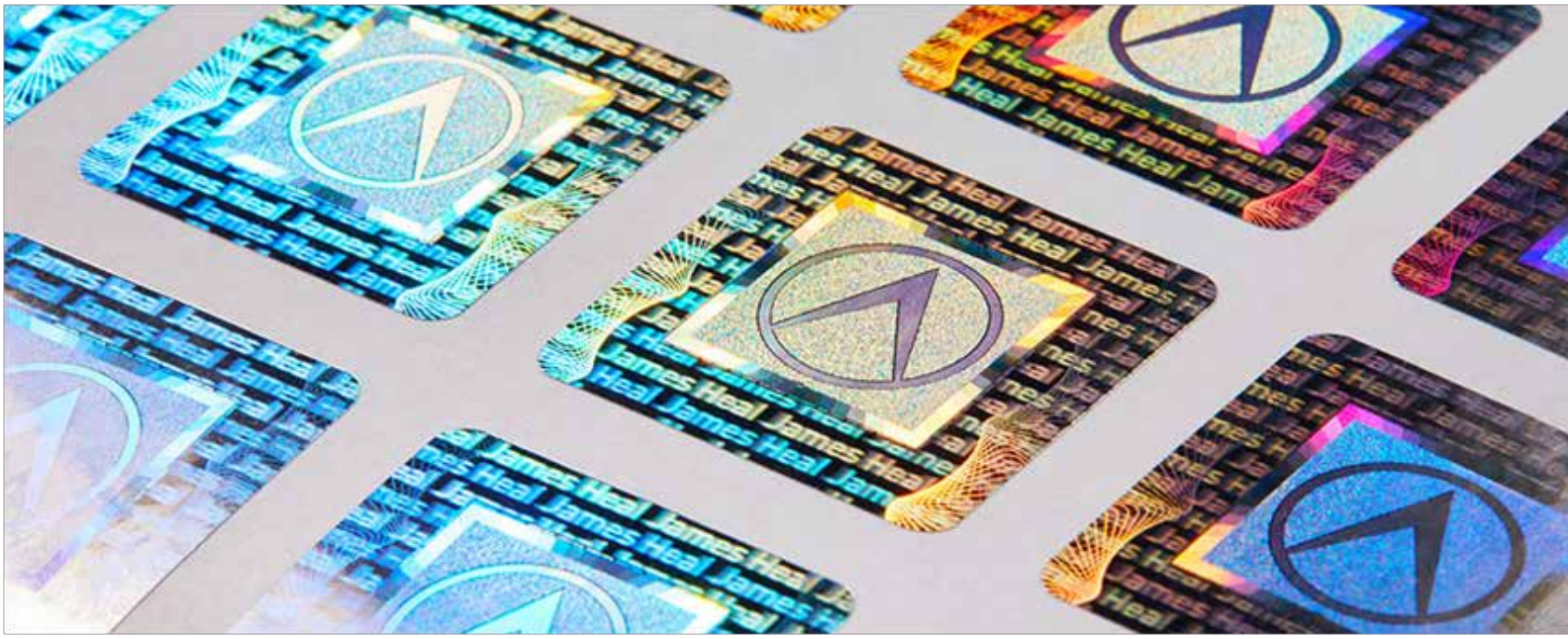
Protecting Our Customers: Hologrammed Test Materials Packaging



All our Test Materials are now packaged with a James Heal hologram

Over the past year, we have seen an increasing number of counterfeit test materials in the market. Although packaged convincingly to look like a James Heal product, these copies are not produced to the standards and quality controls that we abide by.

Our test materials are manufactured to the highest possible quality, and we work within tight tolerances to meet strict standards. We also put a lot of effort into sourcing the raw materials, and controlling the conditions of production.

Counterfeits present a big risk to customers, as without these controls the consumables cannot provide accurate results. We have tested copies against our own product and found the results to be completely different. This calls the integrity of any test results from fake James Heal consumables into question.

To protect our customers, we have taken steps to make our products easy to distinguish from imitations.

The hologram has been designed and licensed to us – it is quick to identify and difficult to replicate, as we hold the rights to the master hologram. It acts as a sign of authenticity.

Using a secure custom label means any attempt to enter the package is immediately obvious. This ensures the customer is the first person to open the product in laboratory conditions.

It is important that our customers use consumables that meet the requirements of the standard, and by adding these additional measures to our packaging we are providing reassurance that this is the case.

Guy Smithurst, Test Materials Business Unit Manager

All our Test Materials are now packaged with an anti-tamper seal

AATCC to Conduct Textile Testing Workshop + FM100 Color Vision Screening and Certification

RESEARCH TRIANGLE PARK, N.C., USA, May 15, 2020— If you are responsible for product evaluation, specifications, and quality control for apparel and textile materials, this workshop is a must for you. Register today for AATCC's limited attendance Introduction to Textile Testing Workshop to be held September 23-24, 2020, at the AATCC headquarters in Research Triangle Park, N.C., USA.

Attendees will learn how to properly perform and interpret test results for approximately 20 colorfastness and physical properties test methods and evaluation procedures. Colorfastness tests to be addressed include crocking, light, washing, and perspiration. Tests for evaluating physical properties include dimensional change, skewness, soil release, water repellency and resistance, and appearance retention. AATCC staff will discuss and demonstrate these procedures and registrants will be involved in hands-on participation.

Sessions will be conducted on color basics and measurement. Participants will be shown how to use the AATCC Gray Scales for Staining and Color Change, and the AATCC Chromatic Transference Scale.

ASTM methods, Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics: Random Tumble Pilling Tester, D 3512; Standard Test Method for Abrasion Resistance of Textile Fabrics (Martindale Abrasion Tester Method), D 4966; and Standard Test Method for Pilling Resistance and Other Related Surface Changes of Textile Fabrics, D4970 will also be discussed and demonstrated.

In addition to the workshop, a new supplemental session of FM100 color vision screening and certification will be offered. These sessions will take place the day

before and after the workshop at the AATCC Technical Center on September 22nd and 25th, with spots capped at five screenings per day. Participants who complete the test will receive a certificate with their FM100 color vision score and the test date. An additional fee and separate registration is required. Participants have the option to receive a one-time discounted rate for the FM100 Hue Kit, bundled with the testing. Spots are extremely limited—registrations will be accepted on a first come, first served basis. Individuals registering on or before September 8 pay US$1155 (US$775 for individual and corporate AATCC members) and will include luncheons, breaks and a copy of the AATCC Technical Manual. After September 8 the registration fee increases to US$1205 for nonmembers (US$825 for AATCC members).
Visit AATCC's website (https://www.aatcc.org/events/workshops/ITT/) for additional program details and to register.

About AATCC: Founded as the American Association of Textile Chemists and Colorists (AATCC), the Association continues to evolve to meet the needs of those in the ever-changing textile, apparel, and materials industries. AATCC has served textile professionals since 1921. Today, the Association provides test method development, quality control materials, education, and professional networking for a global audience.

Media Contact:

Kim Nicholson | Education Assistant

AATCC | Association of Textile, Apparel & Materials Professionals
27th April 2020, Puegnago (BS), Italy

Mesdan introduces testing kit for mask fabrics and masks

Brescia, Italy based Mesdan has developed a new testing kit which can test both fabrics for protective masks and masks themselves.

Mesdan's Airtronic is one of the most popular air permeability testers on the market. Following the COVID-19 crisis and market demand for protective medical mask testing, Mesdan has developed a 'medical mask testing kit' according to EN 14683:2019 and ASTM F2100:2019 (both referring to differential pressure and measuring the difference between airflow above and below the specimen) as well as EN 149 (Particles filtering).
"With the new kit both fabric and ready-made mask can be tested, the Kit could be either integrated into a new Airtronic or installed onto an existing Airtronic," the

Italian company says.

"Two different models are available, small bench top and movable stand-alone unit. For Airtronic the unique "average pore size" assessment software is available as well. For more information about Airtronic latest version please contact: sales@mesdan.it."

New R&D Lead Appointments at Loepfe

Loepfe announced today the appointment of Thomas Schlegel and Roger Hilzinger to jointly head the Loepfe R&D team with effect from May 18, 2020.

To lead the Loepfe R&D team, the company has installed a double-lead consisting of Thomas Schlegel who has strong know-how in hardware, electronics, production quality and project leadership, together with Roger Hilzinger who has been leading the Loepfe software group over the past three years. The two appointments are made to replace Lorenzo Occhi who will leave Loepfe after thirteen years, eight of which were spent as Head of R&D.

Roger has been working for Loepfe for a total of nine years and is well acquainted with the applications for Loepfe products in the textile market. He is an engineer with a Diploma Degree in Information Technology from Zürich University of Applied Sciences (ZHAW) and a Certificate of Advanced Studies in Leading Engineers from Kaleidos University of Applied Sciences Switzerland.

Thomas has a strong track record in project management and development of state-of-the-art hardware and sensor technology, as he has also held deputy head of R&D and quality management roles in the past. He has a Diploma in Electrical Engineering from ochschulefürTechnikRapperswil, a Master of Advanced Studies in Business Engineering Management from achhochschule Nordwestschweiz, and various training certificates including the INSEAD Leadership certificate.

Roger Hilzinger said: "I'm looking forward to work with Thomas. We get on really well and complement each other perfectly. We are lucky to work in Loepfe's motivated and experienced R&D team. I am convinced that in future we will make our products even better so that our customers will benefit more, given the context of digitization and industry 4.0."

Thomas Schlegel added: "When I was asked to take over the R&D lead at Loepfe together with Roger I was immediately enthusiastic as the two of us have worked very well together during the development project of the YarnMaster PRISMA clearer that has been launched recently. I look forward to developing even more revolutionary products with the team for our customers' requirements and for a really bright future for Loepfe."

Loepfe CEO Dr. Ralph Mennicke commented: "On behalf of Loepfe, I would like to take this opportunity to thank Lorenzo for his valuable contributions to product development as well as company management.

R&D is a key driver of product innovation and disruptive approaches in a product and solution company like Loepfe. It was a natural decision – and a great pleasure – to promote both Thomas and Roger to jointly succeed Lorenzo in heading the Loepfe R&D team. Roger and Thomas complement each other with their strong technical domain knowledge in hardware and software, respectively. Congratulations to both of them!"

Major order for BRÜCKNER for several glass fibre finishing lines from Belarus

The company JSC POLOTSK STEKLOVOLOKNO, founded in 1958 and based in Belarus, has been among others a world market leader in the production of glass fabrics for decades. The wide variety of products from glass fibre to glass yarn, electrical insulation and construction glass fabric, glass mesh and silica materials enables STEKLOVOLOKNO to be successful in many branches of industry.

These include mechanical engineering and shipbuilding, automotive and aircraft industry, electro-technical industry, metallurgy as well as the military and construction industry. Every year, the Belarusian company processes around 55,000 tonnes of glass fabric for over 900 different end products. For the thermal finishing, caramelization and desizing of glass fibre, several lines have recently been ordered from the German machine manufacturer BRÜCKNER.

The family-run company located in Southern Germany has been producing lines for the textile industry as well as for technical applications for more than 70 years. In the field of glass fabric finishing, market-leading manufacturers trust in BRÜCKNER technology since decades. The delivery of the lines to Belarus is planned for end of the year 2020.

Hanna Padalitsa, project manager at Steklovolokno, is very satisfied. „We have known BRÜCKNER since the late 90s and already then had successful and good experience in working together. At that time BRÜCKNER supplied us with one line for finishing electrical insulation glass fabric which is still in operation today at our Polotsk site.

We are happy to continue this excellent cooperation with BRÜCKNER and ordered several lines from this family-run company. We are convinced that the whole BRÜCKNER team will demonstrate the highest level of professionalism, ensure the best quality of the lines we ordered and provide an extraordinary technical and after-sales service as they always do and for which the company is known worldwide.

Mathias Strecker (Brückner Sales), Oleg Kurilin (General Director Steklovolokno), Regina Brückner (Owner Brückner), Hanna Padalitsa (Project Manager Steklovolokno), Yury Kasianov (Commercial Director Steklovolokno)

Industrial-scale testing for new PPE finishes

In the current fight against Covid-19, a number of formulators of textile finishing chemicals have rushed out new antiviral and antimicrobial treatments intended for PPE (personal protective equipment) such as face masks and medical gowns and drapes.

These finishing chemicals have naturally already been thoroughly tested in laboratories and their effectiveness verified at laboratory or pilot scale. However, they are new to many manufacturers of textiles and nonwovens now preparing to use them on an industrial level.

“We know that in this current, unprecedented situation, many of our customers are rapidly preparing to transition from their usual manufacturing programmes to the production of PPE items,” says Klaus Heinrichs, vice-president at Monforts. “Some, such as Trident and Welspun in India, which both operate a number of our machinery ranges, have already embarked on new PPE production programmes.

“We have experts on hand at our operational Advanced Technology Centre (ATC) here in Germany,

to help any of our customers to rapidly transition to new finishing techniques and treatments they may not be familiar with, and to run trials on their behalf, should they require this assistance."

The three lines at the ATC situated at the Monforts HQ in Mönchengladbach, are of a true industrial scale and trialling new products on them goes beyond lab or pilot plant testing to rapidly identify any problems that might occur once full production is underway.

Since its opening in 2013, over €3 million has been invested in equipment at the Monforts ATC, which over an area of 1,200 square metres houses two full finishing lines, engineered to accommodate an extremely diverse range of processes and based around the industry-leading Montex stenter, in addition to a Thermex range for the continuous dyeing and the newly developed process of yarn dyeing. Recent expansions have included the installation of the latest Monforts Montex®Coat coating system, with which it is possible to operate in seven different application modes in s single machine.

The Monforts teleservice team is also fully available as normal to help customers via remote service on trouble shooting issues.

"We congratulate those customers who are doing all within their power to combat this pandemic that is having such a devastating impact globally," Mr Heinrichs concludes. "We are here to support them in any way we can and put our services and know-how at their disposal."

Beyond world class

DAVID NIEPER partners with BRÜCKNER Textile Technologies

DAVID NIEPER a British fashion house designing and manufacturing luxury women's clothing, knitwear and nightwear in Derbyshire/ UK for almost 60 years has installed a state of the art dyehouse with the latest BRÜCKNER finishing technology. DAVID NIEPER Ltd. is a family owned fashion house founded in 1961. The company designs and manufacturers its entire women's fashion collections in Alfreton, Derbyshire/ UK, including both knitting and sewing operations, as well as catalogue printing for its mailorder operations throughout Europe.

Superior product quality and customer satisfaction are the key factors for their long lasting success and in order to improve quality further and secure just in time production DAVID NIEPER has decided to introduce dyeing, finishing and printing processes for fabrics. For this, the company acquired a new production site for the installation of a complete new dyeing and finishing and digital printing facility.

BRÜCKNER Textile Technologies/Germany supported this approach from the very beginning – as a first step, development trials have been conducted with DAVID NIEPER's project team in the showroom at BRÜCKNER's Headquarter in Leonberg near Stuttgart/ Germany to determine together the most suitable machine layout for an

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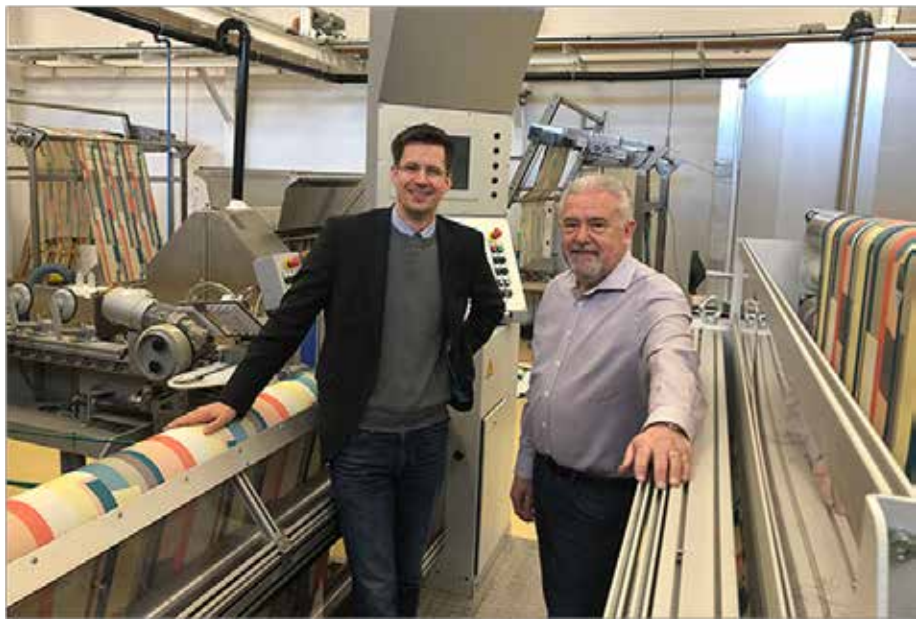
excellent preparation for printing process in combination with an extraordinary fabric handle. Key factors to overcome these requirements are a very gentle fabric tension system to avoid any excessive fabric tension during production, followed by a soft, but efficient, compacting process as last step to achieve a unique fabric handle.



The installed 3-bay BRÜCKNER stenter frame is especially designed for running small production lots, but due to the unique BRÜCKNER feature of alternating heating source arrangement every 1.5m, still 6 independent temperature zones can be adjusted according to the individual requirements of each fabric. Furthermore, the 3-bay BRÜCKNER stenter is equipped with newly developed, completely lubrication free vertical chain, which is reducing maintenance efforts, cost and products wastage. After the stenter treatment, the fabrics will be brought to a brand new inkjet printing department, containing the latest digital printers for brilliant images and unmatched colour depth. After the printing process, as a last step, the fabrics will be compacted on a BRÜCKNER rubber belt/ felt belt compacting range. As the only system available on the market, this machine offers the possibility to handle stable woven fabrics but in the same way also knitted fabrics containing very sensitive fibres such as fine cotton, viscose, Lyocell and silk blended with elastane. The felt belt calender, following the rubber belt compacting unit, gives the fabrics an unrivaled appearance and helps the fabric to drape beautifully and have a luxurious feel to satisfy the demands of DAVID NIEPER's challenging customers. BRÜCKNER thanks DAVID NIEPER for this challenging project! Christoper Nieper OBE, Chief Executive DAVID NIEPER Ltd. says: "This is an exciting opportunity for our business. Working in partnership with BRÜCKNER means that we are able to harness new technology which will make DAVID NIEPER the first fashion manufacturer in the UK to digitally print onto cotton jersey. The digital print factory is the latest and largest investment our company has made in sustainable production. We challenged BRÜCKNER to provide us with a system that would offer superb quality, while upholding our commitment to sustainable textile production."

Monforts denim customers rallied to support a virtual version of the Kingpins denim show that was scheduled to take place in Amsterdam on April 22 and 23rd. When the organisers were obliged to cancel the physical event due to Covid-19 restrictions, they immediately began working on an online alternative, and such was the positive response that they were able to livestream seamlessly across the entire two days that the show had been scheduled to take place. Interviews, discussions, catwalk displays and presentations featuring brands, denim mills, artisans and raw materials suppliers were broadcast successfully from five continents. In opening Kingpins24 on April 22nd at 9am, show founder Andrew Olah (at 2am from Texas) and his co-host, managing director Vivian Wang (at midnight in Los

Angeles), explained that over 75% of the exhibitors who were scheduled to be in Amsterdam had responded positively to the idea, providing content and arranging interview slots and new presentations.

True Blue Solutions

Many of the companies involved outlined their development of new in-house practices and processes for more sustainable denim fabric production through the reduced use of water, chemicals and energy and it was no accident that Monforts customers dominated the Kingpins 2021 Most Sustainable Products (MSP) design collection. While the organisers stressed the MSP was not a competition, merely a showcase of the latest sustainable denims, it featured fabrics from Aristic Milliners, Bossa, Calik, Kilim, Naveena, Orta Anadolu, Prosperity Textile and Vicunha. Many companies are now using their existing Monforts technologies within integrated finishing mills to develop new in-house processes and further improve their ecological performance.

Artistic Milliners, for example, working with chemicals leader DyStar, has introduced Crystal Clear, an indigo dyeing process which is based on an organic fixing agent. It requires no salt and 70% less chemicals and produces clean and recyclable water effluent without any salt by-products. In conventional systems, the company says that indigo dyestuff is stored after the dyeing process and only about 20% can be reused due to salt formation. Crystal Clear uses a pre-reduced liquid indigo that requires no additional water or salt and allows complete indigo recovery.

Hong-Kong-based Advance Denim has developed a similar process it calls Green Finishing for removing indigo and the 100% recycling of water. With the D-clear process developed by Calik of Turkey, water is reduced by 40% in indigo dyeing and by 83% in the subsequent finishing, while another Turkish company, Kilim, is looking to reduce water by 93% as a result of its current Cactus project.

Circularity

Monforts denim customers are also constantly exploring the possibilities of new and more sustainable raw materials and the latest to be featured prominently is hemp, as exemplified by Cone Denim'snew Sweet Leaf collection. Cone Denim has also been working extensively on the Jeans Redesign project drawn up by the Ellen MacArthur Foundation (EMF) with the aim of making circular production a reality. The project has involved a number of leading brands including Adidas, Burberry, C&A, Gap, H&M, M&S, Primark and Unilever. Via this project, Cone has already produced a 100% cellulosic denim collection for Gap, although as a result of the coronavirus, its launch date has had to be pushed back to Spring 2021. "The collaborative spirit from our brand partners is very encouraging, and we are excited by the energy and commitment within the denim community and believe there are many more opportunities to drive sustainable collaborations ahead," said Cone president Steve Maggard.

Current outlook

Pursuing similar circularity goals is Soorty, which has already achieved Cradle to Cradle (C2C) Gold certification for both denim fabrics and garments produced to the most exacting standards. In an interview on the current situation during Kingpins24, company director AsadSoorty said that with manufacturing plants in Bangladesh and Pakistan, a product development centre in Çorlu, Turkey, and a design house in Amsterdam, the immediate future for his company looked very uncertain, yet he remained optimistic.

"We have seen many cancellations and postponements of orders, but as a fully vertically integrated manufacturer we are not in a position to stop payments because we purchased cotton and other raw materials for many months ahead," he said. "As a result, we have a lot of stuck capital and anticipate that when we are able to resume production, we will only be at 10-20% of capacity. "However, I believe this industry can unite and understand the problems of everyone in the supply chain. In the next 18 months we will see very price-conscious consumers who are more cognisant of the environment, because we've seen the world tipped on its head. As a result, I believe our initiatives such as Cradle to Cradle and full transparency, combined with good prices and short lead times will prove even more valuable to the brands."

Optimism Kingpins24 was a meticulously scheduled international programme, planned in just 30 days, with no real template. However improvised and rushed it may have been in the build-up to it, the show ran over Zoom for the full two days with virtually zero technical issues and attracting thousands of online attendees to dip in and out of it from around the world. The mood of the entire two-day virtual event was upbeat and optimistic, as best summarised by Menno van Meurs, founder and CEO of highly successful Amsterdam denim store Tenue de Nîmes:

"Sometimes difficult roads bring you to beautiful places and we're seeing so much creative energy and new ideas being exchanged right now," he said. "I believe that, despite the tragedy, what is happening will bring us to a place that's better than the one we left behind."

STANDARD 100 by OEKO-TEX®: additional test method per ISO/IWA 32 now accepted for detection of genetically modified organisms (GMO) in untreated cotton

The OEKO-TEX® Association has approved testing in accordance with the ISO/IWA 32 protocol as proof of compliance with the GMO testing requirement for STANDARD 100 certification of untreated organic cotton. This new method is an additional option to the familiar OEKO-TEX® GMO test developed with Hohenstein.

Both approved methods are founded on very high standards and meet the stringent quality requirements of OEKO-TEX®. The elimination of further GMO testing simplifies the STANDARD 100 by OEKO-TEX® certification process for applicants who have already had their untreated cotton tested as compliant with ISO/IWA 32.

The ISO/IWA 32 testing protocol was developed by the International Organization for Standardization (ISO) International Workshop Agreement (IWA). The test includes analyses of genetically modified organisms (GMOs) in materials obtained from cotton seeds, leaves, and fibers. ISO/IWA 32 tested organic cotton is certified to be free from genetically modified organisms.

COVID-19 Coronavirus Update

A Business Update regarding COVID-19

Dear Partners,

First of all, we hope that you and your loved ones are all safe and sound, wherever you are. We would like to give you short update on the COVID-19 coronavirus pandemic at Archroma.

Safety & Health

As always, our first priority remains to minimize the probability of the virus spreading among Archroma employees, partners and visitors. We continue to apply the measures and guidelines requested by

Archroma and local authorities, such as:

- Travel restrictions and home office work
- Plant/site visits restrictions
- Strict hygiene measures at all Archroma locations
- Social distancing

Support to key industries fighting the pandemic

Archroma is actively supporting manufacturers in the production of face masks and medical protective equipment. Our barrier and antimicrobial products in particular are in high demand, and we are assisting existing and new customers entering this sector by providing technical know-how and support.

We are also supporting producers of packaging & paper who are seeing a steep increase in demand for food packaging as many restaurants have switched to delivery or take-away, as well as for parcels and boxes supporting online shopping.

Business Continuity

At the same time, we have implemented measures aimed at ensuring business continuity of Archroma and our partners. We are continuously monitoring the availability of raw material and cargo transportation, as well as the operations of ports and airports, aiming to maintain the continuity of our operations and activities as much as possible in the current situation. We are constantly reviewing our customers' and partners' demand and needs, with the goal to keep you informed and to serve you to the best of our capacity.

In this context, we strongly advise you to provide forecasts as accurate as possible, so that we can serve you to the best of our ability in these uncertain times.

Commercial Continuity

Archroma is also committed to meeting our financial obligations to our suppliers, creditors and tax authorities. We therefore will continue to apply our current pricing and payment terms policies, as well as our collection procedures for possible defaults. We must stress that this situation is developing day by day, and we will continue to monitor and take action as needed to meet above-mentioned objectives. We count on your support and understanding, and we are convinced that, together, we will overcome these challenges and turbulent times soon. Your usual Archroma contact partners remain fully available via the usual communication channels, should you need any information specific to open orders and supply. We would like to thank you for your cooperation and patience.

Warmest regards,
Your Archroma team

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Life with the coronavirus: Keeping high-risk contact surfaces in mind over the long run. Sanitized® provides antimicrobial protection for polymers.

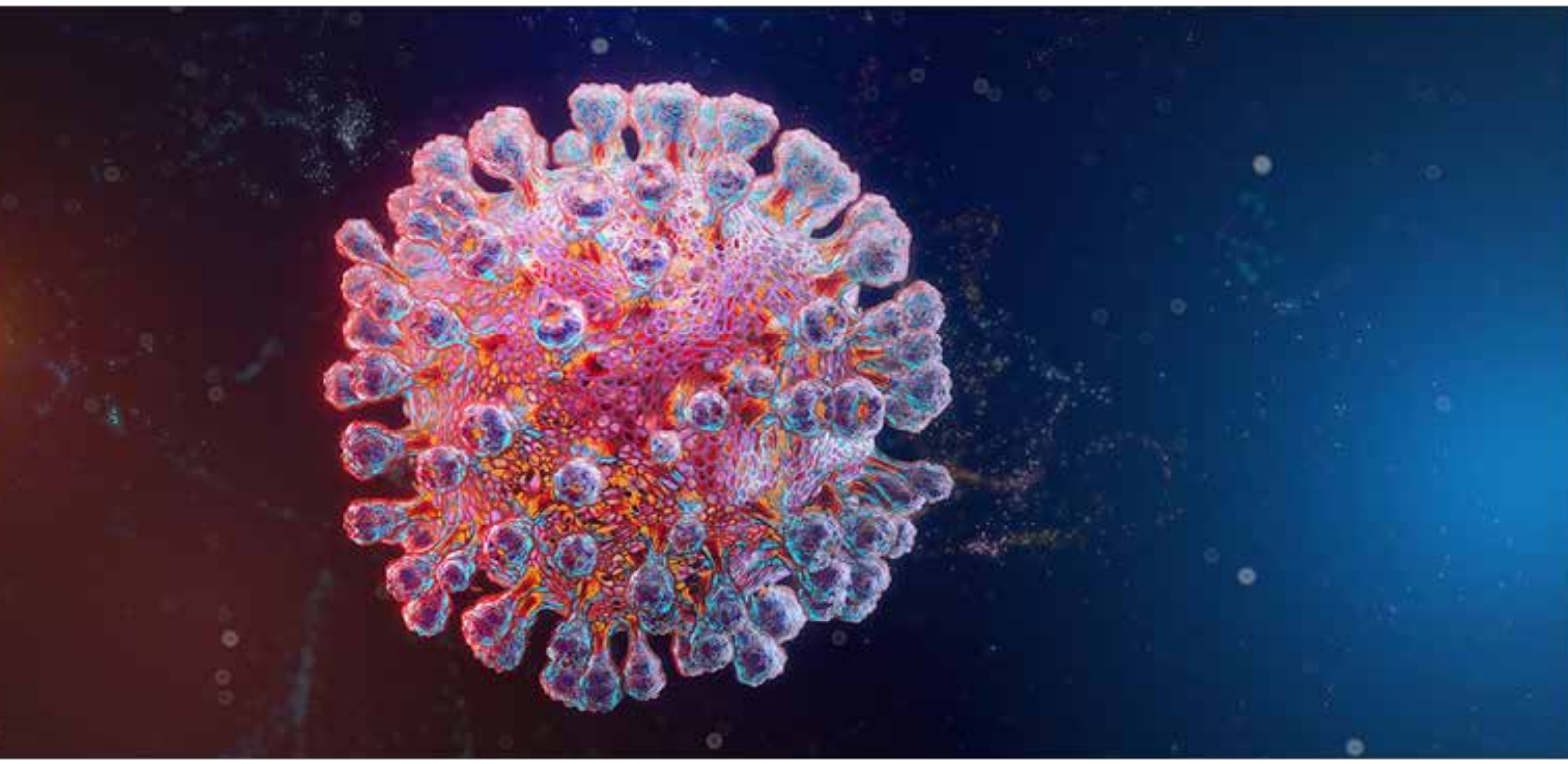
Our lives may be gradually returning to normal, but the coronavirus will continue to influence our interactions with each other for a long time to come. It is important to remain vigilant, especially with hand-related hygiene. Along with direct infection by airborne droplets, our hands remain key to the spread of disease.

Hygienists are focusing on hospitals and retirement homes, but schools, workplaces, train stations, and public transportation are bound to become new hot spots as restrictions are gradually relaxed. These sectors should also meet basic hygiene standards, especially in regards to door buttons, handrails, escalator handrails, poles, seats and other items found on buses, trains and subway cars or stations. Wouldn't it be wonderful if these surfaces were permanently protected to prevent bacteria from adhering and settling on them and ideally viruses too?

Wouldn't it be comforting if the handles of grocery carts and baskets, grocery store refrigerators, gym equipment, cafeteria trays, and hotel remotes also had a similar protective function?

SANITIZED AG supports the global polymer industry with innovative products and hygiene management concepts capable of ensuring that surfaces remain clean always with Swiss care and quality.

Face masks and coronavirus protection SANITIZED clarifies: Observing product-labeling requirements is an absolute must.



Face masks have become a central issue in the fight to protect against COVID-19. After initial shortages, the market is now being flooded. As touching as photos of volunteers at their sewing machines may be, not all of the mouth-nose protection (MNP) available on the market truly offer protection against viruses. Unfortunately, this can cause confusion. In the worst case, people think they are safe even though they are only wearing simple, untreated material as mouth protection. There have also been more and more complaints about misinformation associated with products.

What are the differences between community masks, mouth-nose protection (MNP), and FFP masks?

SANITIZED has created an overview of the various face mask types and their different protective functions. It also contains valuable tips for textile and mask producers, in relation to legal issues. When can a face mask claim a particular health benefit?

Stay healthy and provide consumers of face masks with accurate, transparent information!

www.textiletimes.com

Virus protection for PES textiles

Independent labs have tested and confirmed: two proven Sanitized® additives are also effective against viruses. This is very good news, especially for producers of face masks, textiles for health care apparel, or even bed linens or mattresses. It was possible to reduce viruses by up to 99 % during trials.

These antiviral Sanitized® products, Sanitized® T11-15 and Sanitized® T99-19, are based on silver technology. This patented application utilizes an ammonium-silane compound. Both antimicrobial products are still offer a long-lasting effectiveness against bacteria and odor.

Until the end article (face mask, clothing, etc.) is declared antiviral or "effective against corona" producers remain individually responsible for obtaining the appropriate authorizations. SANITIZED AG makes explicit reference to this.

"We are proud to further support hygiene in the health care system with our Sanitized® antiviral additives," commented SANITIZED CEO Urs Stalder.

30 Apr 20

Huntsman Announces First Quarter 2020 Earnings; A Strong Balance Sheet with Robust Liquidity

First Quarter Highlights

- First quarter 2020 net income of $708 million compared to $131 million in the prior year period; first quarter 2020 diluted earnings per share of $3.16 compared to $0.51 in the prior year period.
- First quarter 2020 adjusted net income of $65 million compared to $85 million in the prior year period; first quarter 2020 adjusted diluted earnings per share of $0.29 compared to $0.36 in the prior year period.
- First quarter 2020 adjusted EBITDA of $165 million compared to $204 million in the prior year period.
- First quarter 2020 net cash used in operating activities was $40 million. Free cash flow was a use of $101 million for the first quarter 2020.
- Balance sheet remains strong with a net leverage of 0.7x and total liquidity for the Company is approximately $2.9 billion. First quarter 2020 share repurchases of approximately 5.4 million shares for approximately $96 million.
- The Icynene-Lapolla acquisition closed on February 20, 2020, which approximately doubled our existing global spray polyurethane foam insulation business. Our recently announced acquisition of CVC Thermoset Specialties on March 16, 2020, is on track to close by mid-year.

THE WOODLANDS, Texas – Huntsman Corporation (NYSE: HUN) today reported first quarter 2020 results with revenues of $1,593 million, net income of $708 million, adjusted net income of $65 million and adjusted EBITDA of $165 million.

Peter R. Huntsman, Chairman, President and CEO, commented:

"Fortunately, we have been well prepared for this global e conomic crisis. The ongoing transformation of our business has made us a much better Company. Our balance sheet is stronger than ever before, with significant cash and robust liquidity. Visibility has at no time been more difficult, but our portfolio of businesses has never been more differentiated. In this environment we are laser focused on what is in our control and protecting our balance sheet strength. Having learned from prior crises, we preemptively reduced unnecessary inventories and are reducing capital spending this year by 30%, or approximately $90 million, by delaying discretionary spending. We have proactively taken other measures, including suspending share repurchases, and various cost reduction measures yielding immediate benefit. We will

accelerate our plans to achieve synergies with our recent and pending strategic bolt-on acquisitions and aggressively press forward with the global scale up of our differentiated platform. Our Company is ready and able to take advantage of opportunities to come, and I am confident that Huntsman will emerge from this global crisis a stronger Company."

Segment Analysis for 1Q20 Compared to 1Q19

Polyurethanes

The decrease in revenues in our Polyurethanes segment for the three months ended March 31, 2020 compared to the same period of 2019 was due to lower MDI average selling prices and modestly lower overall polyurethanes sales volumes.

MDI average selling prices decreased primarily due to a decline in component MDI selling prices in China and Europe. Overall polyurethanes sales volumes decreased slightly primarily due to decreased demand across most major markets, partially offset by modest growth in MDI sales volumes. The decrease in segment adjusted EBITDA was primarily due to lower MDI margins driven by lower MDI pricing, partially offset by higher MDI sales volumes.

Performance Products

The decrease in revenues in our Performance Products segment for the three months ended March 31, 2020 compared to the same period of 2019 was due to lower average selling prices and lower sales volumes. Average selling prices decreased primarily due to lower raw material costs. Sales volumes decreased primarily due to weakened market conditions in our maleic anhydride business, partially offset by higher sales volumes in our amines business.

The increase in segment adjusted EBITDA was primarily due to higher margins in our performance amines business and lower fixed We will accelerate our plans to achieve synergies with our recent and pending strategic bolt-on acquisitions and aggressively press forward with the global scale up of our differentiated platform. Our Company is ready and able to take advantage of opportunities to come, and I am confident that Huntsman will emerge from this global crisis a stronger Company."

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Advanced Materials

The decrease in revenues in our Advanced Materials segment for the three months ended March 31, 2020 compared to the same period in 2019 was due to lower sales volumes and lower average selling prices. Sales volumes decreased across most markets, particularly commodity, industrial and aerospace, primarily due to economic slowdown and customer

destocking. Average selling prices decreased primarily due to the impact of a stronger U.S. dollar against major international currencies, partially offset by higher local currency selling prices. The decrease in segment adjusted EBITDA was primarily due to lower sales volumes, partially offset by lower fixed costs.

Textile Effects

The decrease in revenues in our Textile Effects segment for the three months ended March 31, 2020 compared to the same period of 2019 was due to lower average selling prices, partially offset by higher sales volumes. Average selling prices decreased as a result of competitive market pressures and the impact of a stronger U.S. dollar against major international currencies. Sales volumes increased mainly in Europe and Asia. The decrease in segment adjusted EBITDA was primarily due to lower sales revenues, partially offset by lower raw material costs and lower fixed costs.

Corporate, LIFO and other

For the three months ended March 31, 2020, adjusted EBITDA from Corporate and other for Huntsman Corporation decreased by $5 million to a loss of $45 million from a loss of $40 million for the same period of 2019.

Liquidity and Capital Resources

During the three months ended March 31, 2020, our free cash flow from continuing operations was a use of $101 million compared to a use of $101 million in the prior year period. As of March 31, 2020, we had $2.9 billion of combined cash and unused borrowing capacity.

During the three months ended March 31, 2020, we spent $61 million on capital expenditures compared to $61 million in the same period of 2019. For 2020, we have reduced our projected capital spend by $90 million, or approximately 30%, and now expect to spend between approximately $225 million to $235 million on capital expenditures. We have deferred a portion of capital spending on the new MDI splitter in Geismar, Louisiana for six months leaving roughly $40 million of capital spend in 2020 with the remaining spend of approximately $120 million in 2021 and 2022.

During the three months ended March 31, 2020, we spent approximately $96 million to repurchase approximately 5.4 million shares. As of the end of the first quarter 2020, we have approximately $420 million remaining on our existing $1 billion multiyear share repurchase program. We have temporarily suspended our share repurchase program.

Huntsman & PPJ to promote PPJ's growth in Vietnam

Huntsman Textile Effects and Phong Phu International (PPJ) have announced a strategic partnership agreement that aims to promote PPJ's growth in Vietnam as a leading manufacturer of sustainable, high-performance textiles and garments for many of the leading brands and retailers. Huntsman is a manufacturer of differentiated and specialty chemicals.

Vietnam-based PPJ will leverage best-in-class technical support from Huntsman Textile Effects to enhance its manufacturing processes across its denim/twill and knit mills, and develop new products that deliver optimal sustainability along with advanced performance, protection and comfort.

The development of workwear and value-added textile for the American, European and Japan markets, such as innovative textiles with functional finishes will be a key project for the two partners. They will use advanced Huntsman Textile Effects barrier solutions such as Phobol,

Phobotex, and Zelan, along with other finishing effects, according to a press release by Huntsman.

Huntsman Textile Effects will additionally support PPJ to promote its Sinnika Fabric collection, leveraging Huntsman's advanced dyeing technology and finishing effects to deliver high-value market-focused solutions to brands and retailers.

The new agreement strengthens a longstanding relationship that has already seen PPJ develop innovative denim, knitwear and woven fabrics and garments using Huntsman Textile Effects technologies including Avitera SE dyes, Novacron Atlantic dyes, and High IQ intelligent effects.

"PPJ was among the first in Vietnam to move away from traditional contract manufacturing and offer innovative designs, green solutions and a vertically integrated supply chain as a one-stop solutions provider. With Huntsman Textile Effects as our technology partner, we look forward to continuing to enhance our capabilities as the preferred supplier to global brands that believe in quality and sustainability," Dang Vu Hung, chairman and CEO of PPJ said.

"The textile sector is Vietnam's largest export earner, and PPJ is one of its most impressive success stories. By focusing on innovation and being open to new technology and ideas, PPJ has moved up the value chain and showed others how to succeed on the global stage. We are pleased to continue to support PPJ and help strengthen Vietnam's reputation for high-quality textile production," Chuck Hirsch, VP of commercial, Huntsman Textile Effects said.

Expanding global textile and polymer business with new partnership

Consolidated Pathways Inc. signs agreement as new brand and technical representative for Sanitized® products

Burgdorf/CH, 30 April 2020: SANITIZED AG announces that it has entered into an agreement with Consolidated Pathways Inc. Midland, Michigan USA to globally promote the Sanitized® odor-management, hygiene function and material protection technologies to brands and retailers. Consolidated Pathways will also support the advancement of the trusted Sanitized® Quality Seal and related branding concepts. The longtime co-operation between SANITIZED AG and ARCHROMA remains unchanged and is supported by the activities of Consolidated Pathways.

Consolidated Pathways acts as global brand and technical representative for the Sanitized® line of antimicrobial products. Consolidated Pathways will be focusing on commercializing Sanitized® products in textiles and will use its broad experience in polymer-based antimicrobials to extend the reach of the unique technologies that SANITIZED AG offers.

SANITIZED AG has been a leader in antimicrobials since 1935. Their extensive expertise and Swiss pioneering spirit provides leading edge, safe antimicrobials for textiles, coatings and polymers. Located in Burgdorf, Switzerland the company is recognized for its effective, market-orientated, and commercial technologies.

Consolidated Pathways, Inc is based in Midland, Michigan USA. The Principals of Consolidated Pathways have over two decades of experience with commercializing polymer-based antimicrobials and sustainable surface modification technologies. Consolidated Pathways is well known for its customer service and innovative programs.

STANDARD 100 by OEKO-TEX®: additional test method per ISO/IWA 32 now accepted for detection of genetically modified organisms (GMO) in untreated cotton

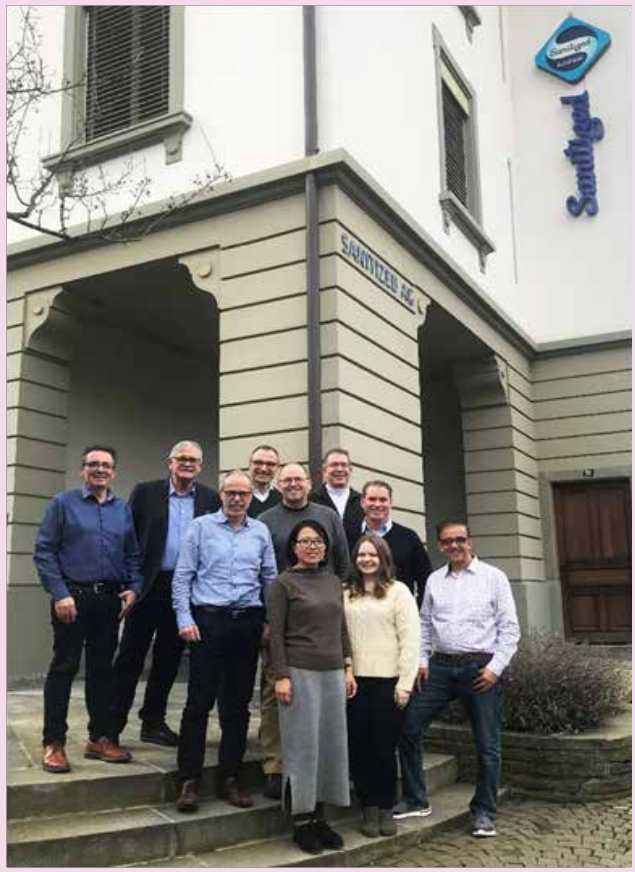
(Mrs. Inga Bleyer, OEKO-TEX® Press and Public Relations)

The OEKO-TEX® Association has approved testing in accordance with the ISO/IWA 32 protocol as proof of compliance with the GMO testing requirement for STANDARD 100 certification of untreated organic cotton. This new method is an additional option to the familiar OEKO-TEX® GMO test developed with Hohenstein. Both approved methods are founded on very high standards and meet the stringent quality requirements of OEKO-TEX®. The elimination of further GMO testing simplifies the STANDARD 100 by OEKO-TEX® certification process for applicants who have already had their untreated cotton tested as compliant with ISO/IWA 32. The ISO/IWA 32 testing protocol was developed by the International Organization for Standardization (ISO) International Workshop Agreement (IWA). The test includes analyses of genetically modified organisms (GMOs) in materials obtained from cotton seeds, leaves, and fibers. ISO/IWA 32 tested organic cotton is certified to be free from genetically modified organisms.

OEKO-TEX®:no certification fee for face masks

(Mrs. Inga Bleyer
OEKO-TEX® Press and Public Relations)

Zurich, April 20, 2020 - With immediate effect, the OEKO-TEX® Association will waive the license fee for STANDARD 100 certification of mouth and nose masks. With the current demand and expert recommendations to wear mouth and nose coverings in public, OEKO-TEX® wants to support continued safety of the population. “We need to stay together



in this extraordinary situation: now and for our future,” said General Secretary Georg Dieners. “The crisis challenges many manufacturers who are confronted with a logistically difficult task.” This industry support follows the process modifications for certificate renewals during the Corona pandemic. This adjustment offers an important service for producers of face masks while ensuring continued sustainability and public safety from harmful substances during the corona crisis.

Bed Bath & Beyond appoints Gustavo Arnal as CFO

Bed Bath & Beyond, a seller of domestic merchandise and home furnishings, has announced new strategic appointments to the company's leadership team, each of whom will report to president and CEO, Mark Tritton. This includes the appointment of Gustavo Arnal as executive vice president, chief financial officer (CFO), and treasurer, effective May 4, 2020.

Arnal joins the company following his previous role as group CFO of Avon, prior to which he held senior positions at Walgreens Boots Alliance and Procter & Gamble. Bed Bath & Beyond's current CFO and treasurer, Robyn D'Elia is departing the company. Arnal will have oversight of finance and will help fortify a strong and sustainable business model. He will have broad responsibilities including M&A, controls, tax, accounting, treasury, audit, and investor relations, the company said in a press release.

Arnal is a global leader, with experience leading teams across the US, EMEA, APAC, and LATAM, and has previously served in senior positions at Procter & Gamble, including CFO of India, Middle East and Africa, CFO global fabric and home care, and CFO global personal beauty.

Rafeh Masood is joining the company as executive vice president, chief digital officer, effective May 11, 2020. Masood was most recently senior vice president, chief digital officer at BJ's Wholesale Club, following earlier strategic positions at Dick's Sporting Goods, and Sears Holdings. RIS magazine named Masood as one of the 'Top 10 Movers and Shakers' in

retail in 2017 and a 'Pacesetter' in retail technology in 2012.

Gregg Melnick will assume the role of executive vice president, chief stores officer, effective May 11, 2020, from his current role as the company's interim chief digital officer. Melnick joined Bed Bath & Beyond in 2018 as chief operations officer, digital. Previously, Melnick was president, Party City Holdings.

Melnick joined Bed Bath & Beyond in 2018 as chief operations officer, digital, where he has overseen the significant growth of the company's digital business. He has been serving as the company's interim chief digital officer since December 2019. He has also held senior positions at Dow Jones. Arlene Hong joins the company as executive vice president, chief legal officer, and corporate secretary, effective May 18, 2020. Hong was formerly chief legal officer, senior vice president, and corporate secretary, Fullbeauty Brands, prior to which she held a number of senior legal positions at J.Crew and Amazon. She also previously held the general counsel role for e-commerce retailer Ideeli.

"Bed Bath & Beyond has a long-standing commitment to helping customers build their sense of home. To do so, we must also build on the strong foundations of this business with a new, robust and sustainable business model. I look forward to working with this great leadership team as the company executes on its strategic growth plans and playing my part as a catalyst for cultural and financial change in the business," Arnal said.

Kitchen Towel Market Outlook 2020-2030: Growth Deviations and Trends due to the Outbreak of COVID-19

DUBLIN, May 21, 2020 / PRNewswire/ -- The "Kitchen Towel Global Market Report 2020-30: COVID-19 Implications and Growth" report has been added to ResearchAndMarkets.com's offering.

The global kitchen towel market is expected to grow from $2.8 billion in 2019 to about $4.1 billion in 2020 as there is an increased awareness about hygiene and use of disposables due to the Covid-19 pandemic across the globe. The market is expected to stabilize and reach $4.8 billion at a CAGR of 14.7% through 2023. North America was the largest region in the kitchen towel market in 2019.

Due to the growing lifestyle needs of the rising urban population, demand for high quality home and personal care products has grown exponentially. According to WHO, The global urban population is expected to grow approximately 1.84% per year between 2015 and 2020, 1.63% per year between 2020 and 2025, and 1.44% per year between 2025 and 2030.

A rising urban population coupled with increasing disposable incomes is catalyzing the demand for personal care products such as kitchen towels. Moreover, their penetration in emerging markets is also increasing as a result of westernization and globalization.

Inflation in raw material prices is one of the major constraints for declining market growth. Many vendors use cellulose fiber to make paper-based towels, in the form of kraft pulp or fiber recycled from recycled waste paper. Market forces like demand and supply of raw materials affect costs which impact selling prices when combined with energy and transport costs.

Private labels offering low-cost manufacturing products that allow them to offer a wide range of products at competitive prices. As a result, they have a superior market penetration that has been affecting the other vendors in the market.

Private brands account for nearly 80% of the market in Western Europe. Accrol is the leading supplier to the private label

market, which is growing at over 8% year on year. In 2019, kitchen towel private label share is 47% while branded share is 53%. Innovation and constant marketing within this market are of utmost importance. The emerging trends within this segment such as increased absorption, new prints, and environmentally friendly goods have been adopted by private labels.

Major players in the kitchen towel market are Kimberly-Clark Corporation, Koch Industries, Inc., Procter and Gamble Corporation, WEPA Professional GmbH, Svenska Cellulosa Aktiebolaget, Wausau Paper Corp. (Tork US), Accrol Group Holdings Plc, Aldar Tissues, and Rodriquez Pty.

Report Scope

This report covers market characteristics, size and growth, segmentation, regional and country breakdowns, competitive landscape, market shares, trends and strategies for this market. It traces the market's historic and forecast market growth by geography. It places the market within the context of the wider kitchen towel market, and compares it with other markets.

- The market characteristics section of the report defines and explains the market.
- The market size section gives the market size ($b) covering both the historic growth of the market, the influence of the Covid 19 virus and forecasting its growth.
- Market segmentations break down market into sub markets.
- The regional and country breakdowns section gives an analysis of the market in each geography and the size of the market by geography and compares their historic and forecast growth. It covers the growth trajectory of Covid 19 for all regions, key developed countries and major emerging markets.
- Competitive landscape gives a description of the competitive nature of the market, market shares, and a description of the leading companies. Key financial deals which have shaped the market in recent years are identified.
- The trends and strategies section analyses the shape of the market as it emerges from the crisis and suggests how companies can grow as the market recovers.
- The kitchen towel market section of the report gives context. It compares the kitchen towel market with other segments of the kitchen towel market by size and growth, historic and forecast. It analyses GDP proportion, expenditure per capita, kitchen towel indicators comparison.

Analysis

5.1. Global Kitchen Towel Market, Split By Region, Historic and Forecast, 2015-2019, 2023F, 2025F, 2030F, $ Billion

5.2. Global Kitchen Towel Market, Split By Country, Historic and Forecast, 2015-2019, 2023F, 2025F, 2030F, $ Billion

Companies Mentioned

- Kimberly-Clark Corporation
- Koch Industries, Inc.
- Procter and Gamble Corporation
- WEPA Professional GmbH
- Svenska Cellulosa Aktiebolaget
- Wausau Paper Corp. (Tork US)
- Accrol Group Holdings PLC
- Aldar Tissues
- Rodriquez Pty
- Towel Depot
- Renova
- Svenska
- WEPO

Latest Bedding sheets and duvet sets bear the Cotton Egypt Association certification

LatestBedding, an online seller of comforter sets, sheets and other bedding and window treatments, has expanded its offering by adding Pure Parma 100 percent Egyptian cotton sheets and duvet sets to its lineup. The products, which have received the Cotton Egypt Association seal, are made of cotton that is grown and handharvested in the Nile River Valley that is known for its long staple fibre. Styles available include Yalda, a double hem stitched sheet; and Ariane, with self-colored scroll embroidery. The bedding comes in a variety of colours ranging from white and ivory to icy blue and peach. Along with the sheets, LatestBedding is adding Pure Parma duvet sets that include a duvet cover and two shams. "When it comes to bedroom design, we believe style and comfort should go hand in hand," said Faisal Yaqoob, Marketing Manager for LatestBedding. "It's no secret that people sleep easier on quality bedding. By adding Pure Parma products to our current line, we're doing our part to help our customers get a more restful and complete night's sleep."

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AGI Denim At 60% Capacity; Focused on Fall and Holiday '20 Orders

"Business as usual" is a long way away, but Artistic Garment Industries (AGI Denim), the company formerly known as Artistic Fabric & Garment Industries, is putting steps in place to rev up production. Pakistan's vertical, Karachi-based denim manufacturer is running at 60 percent capacity since restarting production last month, said HasanJaved, AGI Denim executive director.

"We started with 30 percent and are now running at 60 percent as of the first week of May," Javed told Rivet. "The plan is to gradually ramp up, and hopefully run at close to full strength by July if the global situation continues to improve by then."

Pakistan got its first confirmed case of coronavirus toward the end of February, but manufacturing began to slow down in mid-March when the rest of the world began to impose curfews and lock downs, Javed said. AGI Denim's manufacturing facilities were closed from March 22 to April 21.

"COVID-19 is, of course, a very serious issue and not to be taken lightly, but in developing countries like Pakistan, poverty and hunger can be just as life threatening and therefore, we felt that after several weeks of lockdown, it was a good time to reopen after carefully implementing the mandated government protocols," he told Rivet.

Facilities and arrangements had to be inspected before a small number of companies were given official permission to run at a limited capacity towards the end of April, he added.

AGI Denim worked closely with the authorities on check lists and inspections to meet their reopening requirements, including implementing temperature checks and thermal scanning upon entering the facility and sanitization booths at AGI's entry and exit points. The company is also requiring social distancing throughout the facilities, utilizing disinfectant cabins and providing masks and gloves among other PPE items to staff.

Moving forward, AGI's team will revisit regular trainings and awareness sessions in small groups and via video conferences to maintain safety, and encourage high risk employees to stay home. Advanced coronavirus consultation through telemedicine

KHANTEX International

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Reeds for weaving preparation

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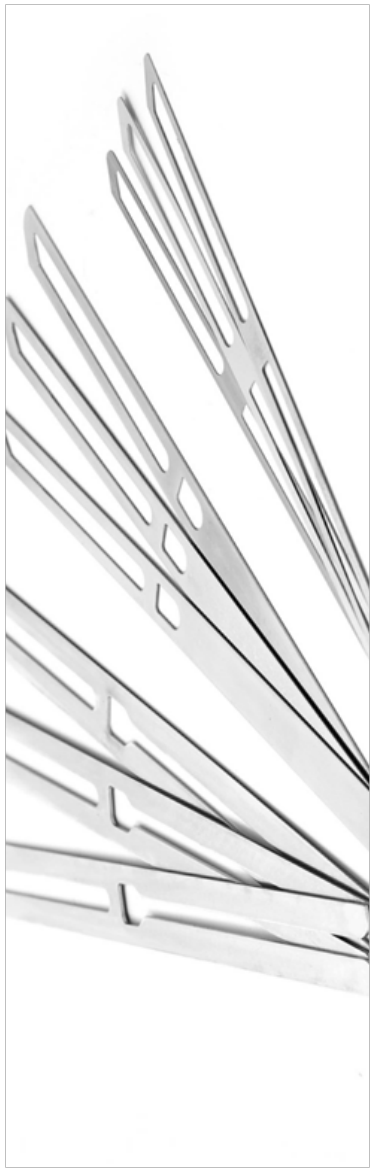

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clines is also available.

"All protocols were met before we resumed production so now we are focusing on the orders we have to ship out in the near future," Javed said.

AGI Denim is currently producing for Fall 2020 and is making some fabrics for the holiday season, however, production is a long way from what it was prior to the pandemic. "There was a definite surge in demand for denim from Pakistan over the last year or so," Javed said. "We were running at 100 percent capacity and were having a record season right before the crisis. Of course, there has been a correction now, and we all need to pause and reflect on the current situation, but we are still optimistic that we will hopefully bounce back by the end of the year." Javed foresees an adjustment period, a time when the global denim industry will have to be acclimated to a "new normal" and the challenges that come with it.

"Once the lockdown is officially over, we will still need to make sure the workforce stays disciplined with regards to maintaining social distancing, wearing masks and avoiding gatherings as a cautious approach is still needed," he said. "We will all need to fight together to get past these unprecedented times."

Dim Mak and Candiani launch denim collaboration

Danielle Wightman-Stone

DJ Steve Aoki's fashion brand Dim Mak has teamed up with Candiani denim to launch its first collaborative pair of jeans that have been crafted with sustainable fabrics and manufacturing methods.

The Dim Mak x Candiani EC-01 is a limited edition pair of jeans completely made in Los Angeles, using sustainable techniques with fabric created by Candiani Denim Mill and hand-painted by Aoki and his Dim Mak artisans that have been designed to "showcase the future of denim".

The five-pocket straight-fit jeans feature an exclusive denim fabric that is composed of equal parts recycled cotton, made from the Candiani mill's own production waste utilising recycled cotton and fibres including Candiani's ITMA Sustainable Innovation Award-winning indigo selvedge fabric ReGen Denim created for the 80th anniversary of the Candiani Mill and featuring Refibra technology, a recycled fibre created by Lenzing using cotton waste.

The style of the jeans look distressed, however, Candiani notes in the press release that the denim's wash actually required "very little washing at all" as the distressed, vintage-effects, and even the artwork itself, was created by using laser technology to gently burn the fabric's surface with varying degrees of intensity.

In addition, the yarn is dyed using Candiani's water-saving Indigo Juice and Kitotex technologies, which enhance the custom laser treatments that give the jean its signature look. This whole process of creation allows for "incredible savings" in terms of water, chemicals, and energy compared to conventional denim, without compromising the aesthetics, performance, and durability of the final product, added Candiani.

In total, these jeans consumed only 31 litres of water compared to 2,755 litres in conventional denim, and used 0.2kg of chemicals instead of 0.8kg.

www.textiletimes.com

DJ Steve Aoki's Dim Mak launches sustainable jeans with Candiani Denim Mill

What makes these jeans stand out, other than their sustainable credentials, is the deconstructed pop art meets manga aesthetic, which is an evolution from Dim Mak's 'AOKI 1of1' series, where Aoki has been upcycling clothing and making original, one-of-a-kind wearable art pieces.

Working at the Candiani Design Centre in Los Angeles, Aoki chose hardware and learned about denim treatments and processes before individually hand painting illustrations of the Yōkai, Japanese demons Rokurokubi, Karakasakozō, and Gashadokuro - with the help of Dim Mak's artists.

"When I visited the Candiani Mill in Italy," said Steve Aoki, "Alberto showed me how they were able to reuse waste in making new, even better jeans. I was inspired by their conscientiousness toward the earth and wanted to bring that mindset into Dim Mak with our first collaboration."

Commenting on the collaboration, Alberto Candiani, owner of the Candiani Mill, added: "Steve and I did this collaboration to have fun, and we did. We leveraged each other's expertise and style to create a one-of-a-kind jean that is a true reflection of our friendship. This project was incredibly fun for both of us, made better by playing with the right ingredients."

The Dim Mak x Candiani EC-01 jeans retail for 150 US dollars and are available on the Dim Mak website and app.

Descon Wins Third Contract from General Electric in Current Fiscal Year

Descon's Hamriyah Manufacturing Works has been successful in securing the repeated order of Unit 2 Revamp Services from General Electric. This includes Mechanical & E&I work (dismantling, modification, supply, re-vamp & commissioning services) at DEWA Power Plant. With this award, Descon has further strengthened its position in GE for future services on their installed based in GCC. Descon continues to strengthen its credibility amongst its customers because of its technical capabilities, successful performance and efficient contract management.

PALL Corporation Awards Detailed Engineering Project to Descon

Descon Engineering Services & Technology (Pvt.) Limited (DEST) has been awarded design of NG Feed Liquid/Gas Coalescer

Testa group

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Package from Pall Corporation in KSA. Pall Corporation is manufacturer of proprietary filtration, separation and purification products and serves a diverse range of customers in the microelectronics, aerospace, fuels, petrochemical, chemical, automotive and power generation industries. The project scope includes detailed design and engineering with issuance of construction/fabrication drawings/ documents of packaged filtration unit to be delivered in a robust and challenging timeline for Saudi Methanol Company (AR RAZI) SABIC. This project award is one of DEST's latest achievements in KSA with technology licensors and shall pave way to strengthen its presence in the region and secure future projects.

Coronavirus/COVID-19 – Information on the current situation

The coronavirus pandemic is currently confronting each individual and also us as a company with limitations and challenges, we have never experienced before.

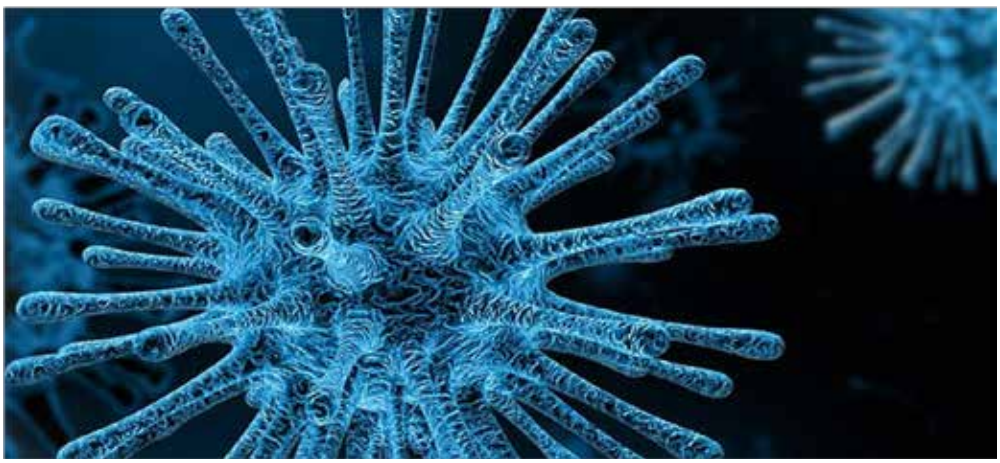
The top priority of our actions is to ensure the health of our employees, their families and our business partners. For this purpose, we have defined and implemented the safety measures recommended by the federal and state governments (such as hygiene and distance regulations) in all departments.

At the same time, we want to ensure that all business areas remain functional and that we meet the expected demands of our customers in terms of availability and performance. Therefore, we regularly check our supply chains and have planned accordingly. Currently we are able to supply the full range of our product portfolio.

However, the dynamic development of the Corona crisis and the frequently changing national and international framework conditions, do not allow long-term statements. We are monitoring the situation very closely and are doing everything in our power to keep our promise of quality for you.

In order to provide you with up-to-date and comprehensive technical advice, our employees are available to you at any time by phone, e-mail or video conferencing.

We thank you for your understanding and wish you and your employees all the best.



LUWA - Rotary Air Filter / Drum Filter

The rotary air filter is a well proven fine dust filter for exhaust air with a high concentration of dust and fibres in spinning and weaving mills. The high efficiency of this filter guarantees that the MAC prescriptions for exhaust air are adhered to. It is an economic solution for applications where enough space is available.

Characteristics:

- Automatic cleaning of the filter drum with a suction device fitted on the side
- Controlling of the cleaning process by differential pressure guards
- One filter mat per drum segment shortens the maintenance time
- Thanks to the suction device fitted externally, maintenance is also possible during operation
- Application with pre-fabricated housing or in a walled room

Advantages:

- Excellent cleaning effect
- Short installation time
- Easy maintenance

LUWA - Multi Cell Filter MCV

The MultiCell-V (MCV) filter has minimized floor space requirement and optimizes the air flow with the V-shaped arranged filter cells. The filter is suitable for high dust-laden exhaust air with small amount of fibres. Highly efficient filter media guarantees high filtration grade for dust particles and fibres. The filter media is automatically cleaned by suction mounted on a robot. It is the most compact filter system available for the fibre and textile industry.

Characteristics:

- Automatic cleaning of the filter media
- Controlling of the cleaning process by differential pressure guards
- Simple and sturdy 2-axis movement drive of suction nozzle
- Application with pre-fabricated housing or in a walled room

Advantages:

- Only 1/3 space required compared to rotary filter
- Shorter A/C stations – smaller service bay
- Excellent cleaning effect
- Static filter cells guarantee good sealing
- Fast and easy change of filter medium
- Easy maintenance

Textile Times May 2020 Advertising Index

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... REALIZED WITH DORNIER WEAVING MACHINES

QUALITY CREATES VALUE

DORNIER

EASY COMPTEX FV

Compacting machine
for tubular knitted fabrics

COMPTEX REVOLUTION

Compacting machine for open
width knitted and woven fabrics

FERRARO SPA

Your trusted partner in finishing

OCS ONE COMPACTING SOLUTION

Sanforizing lines for knitted
and woven fabrics

ROTOCLEAN

Washing and removal unit for
weaving oils and paraffins