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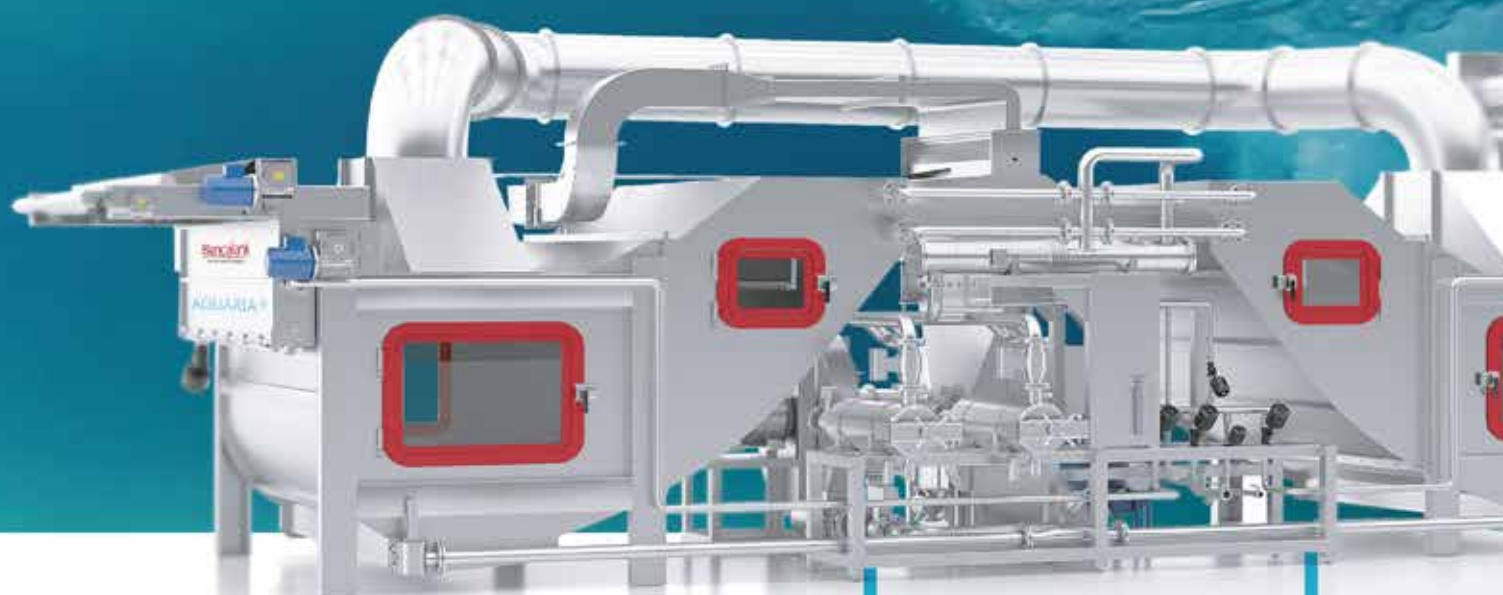
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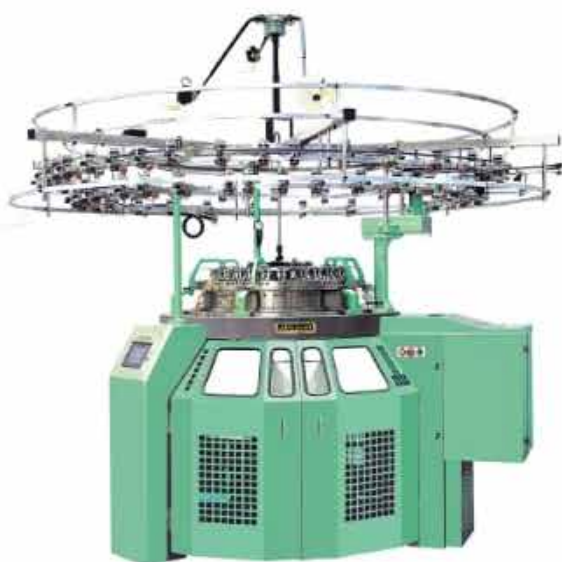
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1

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2

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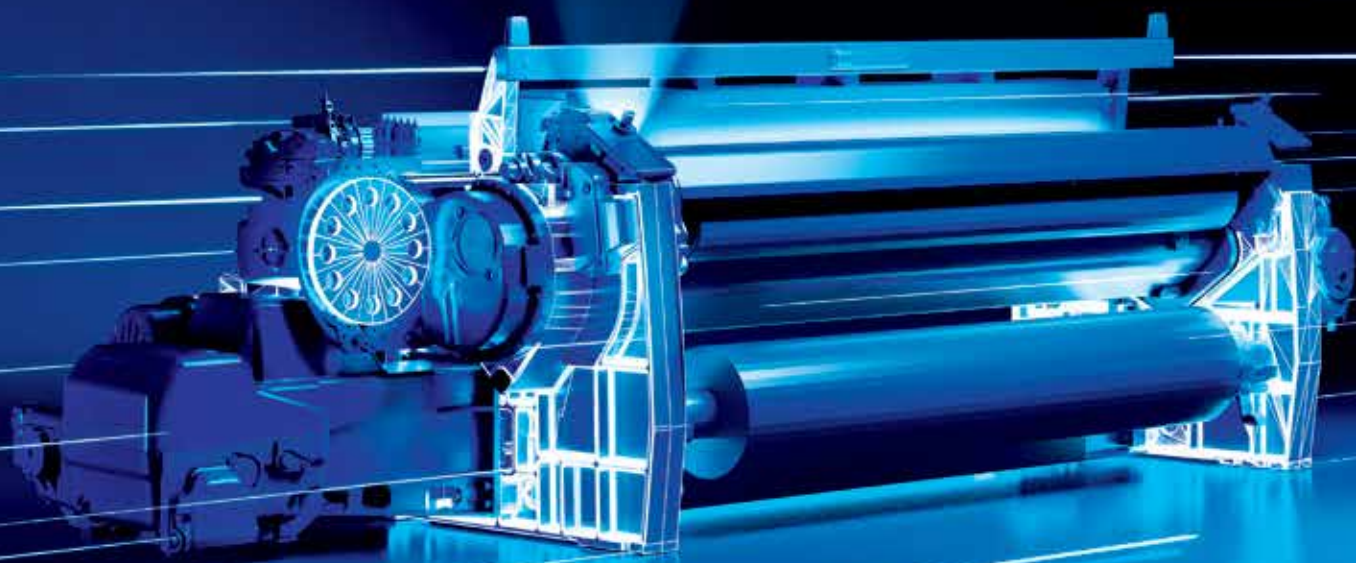


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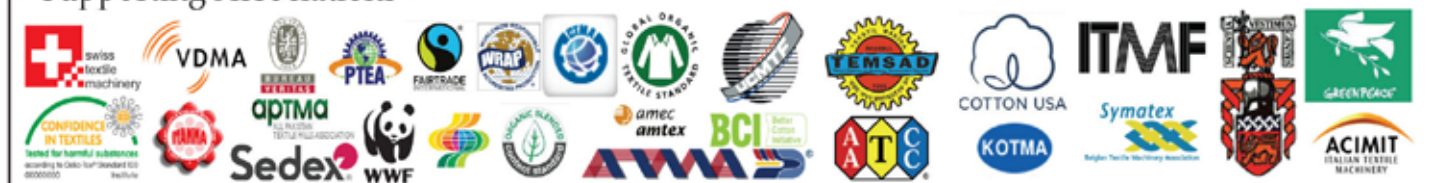
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editorial

Dear Readers,

Pakistan's textile exports have touched a historic high of \$11bn during 7MFY22, up by 25% YoY, data released by the Pakistan Bureau of Statistics (PBS) showed today.

In the month of January alone, textile exports remained above the \$1.5bn level as it recorded at \$1.55bn, up by 17% YoY. While on monthly basis, it declined by 4% MoM led by lower exports of the value-added segment.

The year-on-year increase in the said exports is due to the strong pent-up demand ahead of the summer season in the West while other factors include resumption of normal economic activities which led to shortages at various retail brands, competitive utility and borrowing rates, as well as continued US-China trade rift, have favoured Pakistan.

In the value-added segment, knitwear, bed-wear, readymade garments and towels registered an upsurge of 33%, 19%, 22% and 15.4% to \$2.9bn, \$1.9bn, \$2.2bn and \$615.3mn during July-January FY22 compared to the corresponding period last year.

Pakistan's commerce chief Abdul Razak Dawood said on Wednesday the government had approved Textiles and Apparel Policy, 2020-25, with the objective of ensuring sustainability of textile sector exports.

The Economic Coordination Committee (ECC) of the cabinet had approved the revised Textiles and Apparel Policy, 2020-25, after incorporating a few changes along with an implementation report. "One of the main objectives of the policy is to give the textile industry internationally competitive electricity and gas rates to enhance the exports," Dawood said while addressing a news conference in Islamabad.

Pakistan posted its highest textile exports during the first seven months of the ongoing fiscal year (7MFY22). The sector's exports increased by 25 percent to \$10.93 billion during the July 2021-January 2022 period, according to the Federal Bureau of Statistic.

Pakistan's textile sector provides employment to about 40 percent of industrial workforce in the country, consumes almost 40 percent of banking credit for manufacturing and accounts for 8.5 percent of the gross domestic product.

The textile sector which is the single largest consumer of domestic cotton contributes 62 percent share in the overall export of the country, according to All Pakistan Textile Mills Association (APTMA).

Pakistan has previously announced two five-year textiles policies for 2009-14 and 2014-19 to increase its exports to \$25 billion and \$26 billion, respectively. However, it could not manage to meet these targets in the past. The sector continues to receive the lion's share of government export sector subsidies, including subsidised energy, access to cheap credit for working capital and long-term capital expenditure and duty drawback concessions. This year, government subsidies to the textile sector have amounted to an estimated \$780m, according to government data and industry estimates.

China produces around half of the world's textiles and its exports are worth more than \$200 billion per year, but the textile industry also uses three to four times more water than its counterparts in developed countries. Meanwhile, household water levels are suffering: China has about 1,730 cubic meters of fresh water per person, close to the 1,700 cubic meter-level the United Nations deems "stressed."

Première Vision Paris, the leading trade show for the upstream global creative fashion industry, takes stock of its latest hybrid edition, which featured a trade show on February 8, 9 & 10 at Paris Nord Villepinte and an online Digital Week hosted on its website from February 7 to 11.

The dual physical and digital edition succeeded in bringing together the market's major players around the key issues driving fashion at this time of economic recovery for the sector. With over 74,600 visitors - including 60% international.

After two years, at Texworld Paris, the professionals of the fashion industry were able to meet the international manufacturers selected by the Messe Frankfurt France team in the Hall 4 of the Paris-Le Bourget Exhibition Center. For this re-launch edition, which brought together 200 exhibitors from 16 countries, the four exhibitions of Texworld Evolution Paris welcomed 2,800 professional visitors over three days.

These figures show that the textile and clothing offer proposed by the platform was expected by the professionals. In the opinion of the first visitors, the climate that prevailed from the opening was very clearly business-oriented.

WASEEM J. KHAN
Editor-in-Chief

GLOBAL TEXTILE AND CLOTHING NEWS

VANDEWIELE BELGIUM & SAVIO INDIA FINALISE MERGER

21 Feb '22

Vandewiele/Savio India

Vandewiele nv and Savio India have announced that they have finalised the merging process, creating a global network for their customers. The two companies will operate under the new name of Vandewiele-Savio India Private Limited.

This strategic alliance will benefit the Indian textile industry, as the expertise from these two leading groups, offering complete weaving, winding, twisting solutions to the Indian customers, will give them a sustainable competitive advantage in their business.

"We are convinced that these joined forces provide a comprehensive network of integrated services that will better serve our customers' needs for the Indian market," the two companies said in a joint media release.

The merger of the Group activities has resulted in a wide range of synergies in the service, care solutions and developments, with benefits for the customers. Vandewiele-Savio India is ready to provide the region with high class textile machines with cost effectiveness and the best support.

Its corporate office is located at Coimbatore with a strength of about 250 people and sales and service



offices at Coimbatore, Ludhiana, Ahmedabad, Kolhapur and Thane cover the whole product range of the Group.

Vandewiele builds carpet looms, velvet looms, jacquard machines and integrates innovative textile systems for flooring qualities, home linen, fashion fabrics and technical textiles. Sharing inspiration and expertise with its customers worldwide, the company shapes the textile industry of the future. Its research and development department and test-engineers are continuously developing new applications, the company said in the release.

Over its 110+ years history, Savio acted as a technological leader

and most innovative player in attractive niches of the textile value chain. Savio leverages on the best value-for-money proposition in the industry. It has a consolidated presence in all relevant geographies with a local-for-local approach, allowing Savio to promptly address market demand and requirements. Savio specialises in the textile machinery sector for the yarn finishing segment being the leading supplier of winding and twisting machines with manufacturing plants in Italy, China and India. Savio India, the advanced TFO manufacturing set up of Savio group in India, will continue to provide and ensure state-of-the-art customer support and spare parts services.



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EU TRADE MINISTER'S HOPEFUL OF 12TH WTO MINISTERIAL CONFERENCE IN 2022

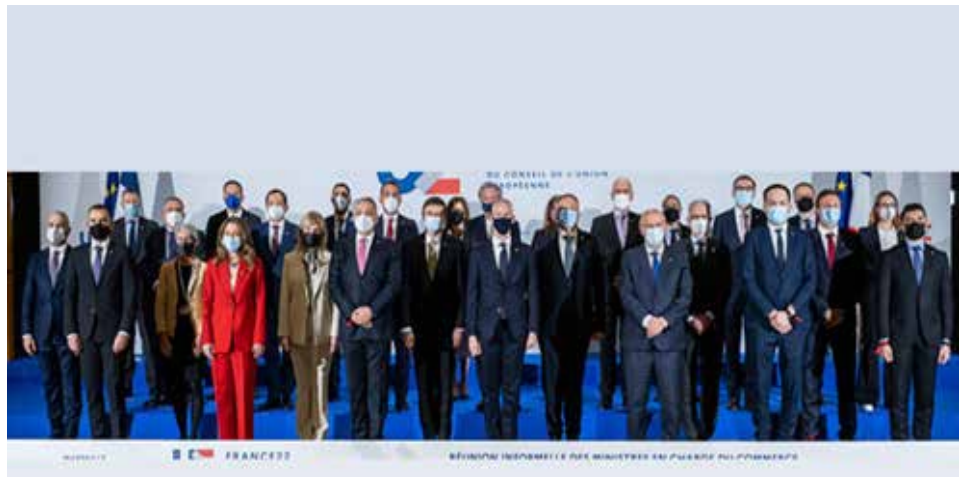
21Feb '22

French Presidency of the Council of The European Union

The recent talks by European trade ministers in Marseille reaffirmed the support of the European Union (EU) member states to swiftly organise a 12th WTO Ministerial Conference once the public health situation gets conducive—if possible by the end of June this year. The meeting was convened under the French presidency of the European Council.

The ministers also encouraged the European Commission to continue the efforts it has been making so far at the World Trade Organisation (WTO) to maintain a high level of engagement on all issues on the Ministerial Conference agenda, an official release said.

The informal meeting determined strategic guidelines for the EU's trade policy action and the issue of the future of the WTO, the deepening of trade and investment relations between the EU and the African



Union (AU), and transatlantic relations. The meeting also discussed alleged coercive measures China has taken against Lithuania.

The member states reaffirmed their full support to the European Commission for the negotiation of an agreement on trade and health, in a comprehensive approach combining measures to facilitate access to and distribution of the most innovative medicines and vaccines for all, as well as commitments to transparency, governance of export restrictions and trade facilitation measures.

They called for WTO talks to be stepped up in order to improve

the organisation's functioning and adapt its rules, so that it can overcome current challenges, especially those related to sustainable development and digital technology, and also to strengthen the fight against unfair practices that distort international trade.

They also held an initial discussion on the initiative launched by the WTO director general and the European Commission to bring together a coalition of trade ministers sharing a high ambition in fighting climate change to maintain political momentum on these crucial challenges.



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NEW YORK MAYOR ANNOUNCES PLANS FOR SUSTAINABLE FASHION JOBS

18 Feb '22

New York City mayor Eric Adams has announced a partnership with New York City Economic Development Corporation (NYCEDC) that will create new jobs for New Yorkers, expand Brooklyn's footprint in the fashion industry, and provide a boost to New York's economy. Slow Factory will be the first major tenant at Made in NY Garment Hub as part of redevelopment.

The Made in NY garment hub will serve as a space to grow jobs and expand workforce training in garment manufacturing, fashion design, and other affiliated businesses. Additionally, the garment hub will create 460 fashion jobs onsite and train 500 people — bringing in an estimated \$57 million in direct economic output to New York City.

"New York City was already the fashion capital of the United States, but the redevelopment and creation of new fashion jobs at the Made in NY campus in Brooklyn will only solidify our place as the city of swagger," said mayor Eric Adams. "Slow Factory's opening at the garment hub in Sunset Park will help create hundreds of fashion jobs onsite and bring tens of millions of dollars of direct economic output to New York City. Additionally, in New York, we are leading the



way and showing that prioritising sustainability can go hand-in-hand with the fashion industry."

"New York City is the fashion capital of the world, and the Made in New York campus reflects the Adams administration's commitment to make sure we remain that way," said deputy mayor for Economic and Workforce Development Maria Torres- Springer. "Congratulations to Slow Factory for being the first anchor tenant. Their work at the intersection of sustainable garment production and supportive workforce development practices is a model for fashion manufacturing that reflects our city's values."

Slow Factory's move into the garment hub will not only be its first ever brick and mortar location,

but the move will build upon a thriving manufacturing sector in Sunset Park. Frontline climate justice leadership has long called for a focus on sustainability and green manufacturing in the district, home to the second largest concentration of garment manufacturers and employment in New York City. Slow Factory will establish a dedicated multidisciplinary institute, which will deliver educational programming and workforce training, a product studio, and a research and development lab all under one roof, office of the mayor said in a press release.

The institute will provide a physical home to the Slow Factory's "Open Edu" programme, a free and accessible education series on climate justice, climate

solutions, and climate-positive design. The programming will be integrated with Slow Factory Labs, a physical manufacturing facility for regenerative material innovation that focuses on their plant-based leather, Slowhide. Other waste-to-resource training programmes will focus on design for disassembly that allow designers to work from thousands of pounds of discarded clothes, returned goods, and textile waste delivered to the Slow Factory through their brand partners. Slow Factory also plans to open the Slow Factory Institute, which aims to leverage its climate-positive ed-

ucation and training programs to stimulate sustainable economic development and pathways to skilled employment opportunities in historically marginalised communities. Opening an institute is the first milestone in the organisation's larger plan to develop a network of climate institutes around the world.

g fashion's carbon footprint is not only trendsetting, but necessary in the fight against climate change," said Rachel Loeb, president and CEO, NYCEDC. "Slow Factory will build on Sunset Park's strong foundation of garment manufacturing and green innovation with cutting

edge solutions and meaningful workforce development that puts New York City on a path to strengthen, grow and change the manufacturing industry for the better."

"This school presents a revolutionary opportunity to offer a pragmatic, future-oriented curriculum in Sunset Park, Brooklyn," said Céline Semaan, executive director, Slow Factory. "We are working diligently to fill a critical educational gap that focuses on climate justice and human rights, while creating a community hub for education and skills training."

CHINA GERMANY'S KEY TRADING PARTNER IN 2021 FOR 6TH CONSECUTIVE YEAR

11 Feb '22

China was Germany's most important trading partner in 2021 for the sixth year in a row, according to the Federal Statistical Office (Destatis), which recently said total foreign trade revenues between Germany and China increased by 15.1 percent year on year as goods worth €245.4 billion (\$279.1 billion) were traded between the countries in 2021.

The Netherlands and the United States followed second and third, with trade

revenues of €206.1 billion and €194.1 billion, growing by 20.1 per cent and 13.4 per cent respectively.

"China's importance for German imports is growing steadily," Destatis noted. In 1980, China was still ranked 35th among the most important importing countries, and by 1990 it already jumped to 14th position.

Since 2015, China has been Germany's most important country for imports, according to Destatis. Goods worth €141.7 billion were imported



from China in 2021, an increase of 20.8 per cent year on year.

The United States was the biggest customer country for German exports in 2021, unchanged since 2015. China and France followed second and third.

PAKISTAN'S TEXTILE & APPAREL EXPORTS RISE 24.73% IN JULY-JAN FY22

18 Feb '22

The value of textile and garment exports from Pakistan increased by 24.73 per cent year-on-year in dollar terms in the first seven months of fiscal 2021-22. During the period, Pakistan earned \$10.933 billion from textile and apparel exports, compared to exports of \$8.765 billion in July-January 2020-21, according to data from Pakistan Bureau of Statistics.

Category-wise, knitwear exports rose by a sharp 32.76 per cent year-on-year to \$2.887 billion during the seven-month period, while exports of non-knit ready-made garments were up 21.98 per cent to \$2.163 billion.

Among textiles, cotton yarn exports increased by 41.41 per cent to \$687.857 million in July-January 2021-22, as against exports of \$486.429 million made during the corresponding period of 2020-21. Exports of



cotton fabric also rose by 24.41 per cent and were valued at \$1.351 billion during the period under review.

Bedwear exports jumped by 19.25 per cent to \$1.924 billion during the seven-month period, the data showed.

On the expenditure side, synthetic fibre imports shot up by 37.61 per cent year-on-year to \$445.981 million, while imports of synthetic and artificial silk yarn rose 31.42 per cent to \$501.528 million during Ju-

ly-January 2021-22.

Meanwhile, the value of textile machinery imports by Pakistan increased significantly by 77.50 per cent year-on-year to \$504.269 million during the seven-month period.

In fiscal 2020-21 ending June 30, textile and garment exports from Pakistan increased by 22.94 per cent to \$15.400 billion over \$12.526 billion exports in the previous fiscal. In fiscal 2018-19, the value was \$13.327 billion.



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PAKISTANI CABINET'S ECC APPROVES TEXTILE POLICY WITH AMENDMENTS

11 Feb '22

The Pakistani cabinet's economic coordination committee (ECC) recently approved the Textiles and Apparel Policy, 2020-25, with certain amendments. The ECC gave the approval after arriving at a consensus with stakeholders over cash subsidy for lower utility rates to boost production and export of value-added textile products. The policy is expected to be presented in the next cabinet meeting for approval.

The ECC also approved the summary presented by the energy ministry's petroleum division on determination of RLNG sale price for Pakistan LNG Limited's supply to



K-Electric. It also approved the proposal of revision of gas price applicable to Mazarani Gas Field from

\$1.75/MMBTU to \$3.75/MMBTU from September 1, 2021, Pakistani media outlets reported.

COTTON ARRIVAL AT PAKISTAN GINNERIES UP 36.81% AS ON JANUARY 1

05 Jan '22

Over 7.347 million bales of cotton have arrived in 2021-22 season at various ginneries in Pakistan, as on January 1, 2022, up 36.81 per cent compared to arrival of 5.370 million bales during the corresponding period of last season,

according to the latest fortnightly report on cotton arrivals, released by Pakistan Cotton Ginners' Association (PCGA).

In the major cotton producing province of Punjab, total cotton arrivals increased by 17.81 per cent year-on-year to 3.838 mil-

lion bales, according to the report prepared by PCGA, in joint cooperation with All Pakistan Textile Mills Association (APTMA) and the Karachi Cotton Association (KCA). While in Sindh province, cotton arrivals were up 66.12 per cent to 3.508 million bales as on



January 1 during the ongoing cotton season 2021-22.

Of the total arrival of 7.347 million bales at various ginneries in Pakistan, 7.312 million bales were pressed by ginneries, of which 7.035 million bales were sold, leaving an unsold stock of 277,185 bales with the ginneries, as on January 1, according to the PCGA report.

The textile mills in Pakistan consumed 7.019 million bales, while

another 16,000 bales of cotton were sold to exporters, according to the data. The Trading Corporation of Pakistan (TCP) has not procured any bale of cotton so far this season.

As of January 1, a total of 64 ginning factories were operational in Punjab compared to 185 ginneries that were operational during the same time last season. Similarly,

43 ginning units were operational in the Sindh region, compared to 72 operating units during the corresponding period last year.

In the previous cotton season 2020-21, Pakistan had produced around 5.645 million bales of cotton, much lower than 8.571 million bales in the previous season, due to water shortage and attacks by cotton leaf curl virus (CLCV) and other pests.



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TECHNICAL FEATURES / CARACTERÍSTICAS TÉCNICAS

	H-10	H-17	H-30	H-50	H-100	H-120	H-200
Height / Altura (mm)	586	665	860	910	1030	1150	1360
Depth / Profundidad (mm)	831	950	1580	1780	2220	2330	2680
Width / Anchura (mm)	586	665	1230	1310	1550	1700	2025
Drum / Tambor AISI 304	included						
Drum automatic break Frenado automático tambor	included						
Timer / Temporizador	Included						
Capacity dry / Capacidad seco kg	10	17	30	50	100	120	200
Motor power / Potencia motor (kw)	0,6	1,1	3,7	5,6	10	15	20
Speed / Velocidad (rpm)	1.500	1.500	1.300	1.150	850	800	650
Net Weight/ Peso neto (kg)	72	102	750	970	1650	2000	4400

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BUSINESS SITUATION AND EXPECTATION REMAIN VERY FAVOURABLE ALONG THE GLOBAL TEXTILE VALUE CHAIN

In the 2nd half of January 2022, the ITMF conducted the 12th ITMF Corona-Survey among more than 270 companies around the world in all segments along the textile value chain. For the fifth time since May 2021, companies were asked the same set of questions about their 1) business situation, 2) business

expectation, 3) order intake, 4) order backlog, and 5) capacity utilization rate.

On average across all regions and all segments, the business situation is still very favorable with +23 percentage points (pp), albeit lower than compared to November 2021 (+28pp). This high level is re-

markable given the fast-rising infection number of the Corona-variant "Omicron" since the 11th ITMF Corona-Survey (see Graph 1). The fact that a rising number of companies find themselves in a satisfactory business situation (48%) is an indication for a strong and broad recovery.

Graph 1: How do you describe your current business situation?



pp = percentage points

Source: ITMF Corona-Survey, 8th – 12th

*based on regional averages

When it comes to the business expectations in six months, the global textile value chain remains very optimistic. While the balance between more favorable and less

favorable has fallen from +33pp to +25pp, it needs to be considered that these expectations are built on a very favorable business situation (see Graph 2). Or to put it differ-

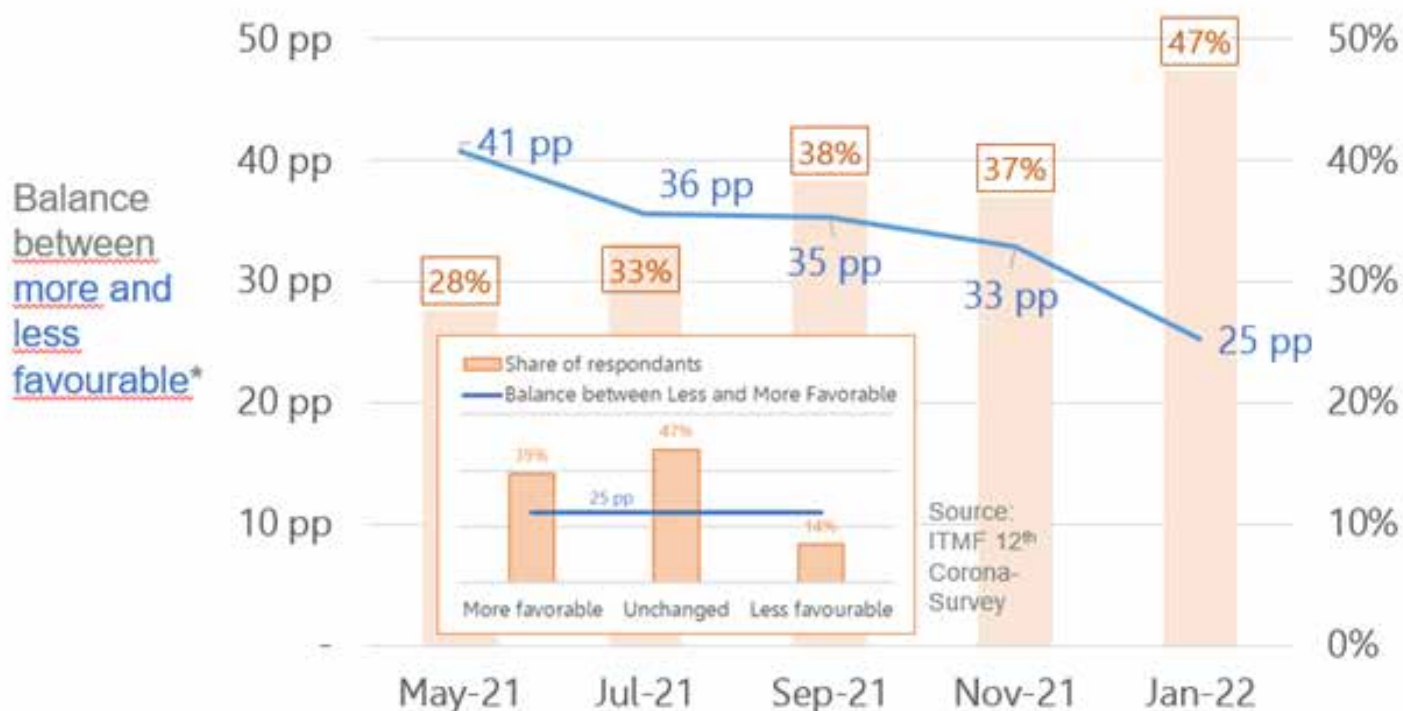
ently, only 14% of companies are anticipating a less favorable business by July 2022.



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Graph 2: What are your business expectations in 6 months?

pp = percentage pointsSource: ITMF Corona-Survey, 8th – 12th* based on regional averages

A look at the different regions reveals that the business situation is in positive territory in all regions except for East Asia and Africa where the balance between good and bad business situation is negative. The expectations are very positive except for East Asia. As for the different segments the downstream segments – weavers/knitters, finishers/printers, and garment producers – are

catching up with the upstream segments – fiber producers, spinners, and textile machinery producers. The order intake has fallen from a high level of +40pp in November 2021 to +30pp in January 2022. This is in line with the slightly weaker business situation. Order intake expectations in January remained practically on the same level as in November (+40pp and +41pp, respectively).

Since May 2021 order backlog is hovering between 2.4 and 2.9 months. The expectations do not indicate a change in the next six months. The capacity utilization rate continues to increase slowly but continuously since May 2021, indicating that the supply chain disruption is still a big – but hopefully a diminishing – concern.

CONNECTED' AS THE SEASONAL THEME OF INTERTEXTILE DIRECTIONS TRENDS FOR SPRING / SUMMER 2023

The pandemic has led us to finally find the togetherness we have been looking for. A beautiful, interwoven web of community and nature, enhanced through technology – 'CONNECTED' is the seasonal theme for apparel fabrics trends for Spring / Summer 2023. Visit the Trend Forum at Intertextile Shanghai Apparel Fabrics – Spring Edition 2022, running from 14 – 16 April, to find out more about the four key trends that will represent this theme: BIOCLARITY, NATURAL-HARMONY, VIRTUAL-ENERGY and EARTHCELEBRATION.

In a seemingly hyper-connected world, there has grown a widespread craving for intimacy and closeness. We seek authenticity in every aspect of life and look within, around and beyond ourselves, leading to the emphasis of performance and synthetic fabrics, and comfort and ecofriendly fabrics. The fair's Trend Forum will feature on-trend fabric samples submitted by exhibitors to provide inspiration for visitors on colours, patterns, materials and more.

The Intertextile Directions Trend Committee came up with the seasonal theme 'CONNECTED' to tell the story of tomorrow's apparel fabric trends. It is formed by top trend forecasters from fashion capitals around the world: TOBE TDG By The Doneger Group (New York, USA), Elementi Moda (Milan, Italy), NellyRodi™ Agency (Paris, France) and Sachiko Inoue (Tokyo, Japan). Shanghai, China, 14 – 16 April 2022 View the full Trend Guide here.

BIO-CLARITY

We roam the land and explore the mind in search of peace and purity. Nature's nurturing touch shows us a path, where we discover serenity in her quiet sanctity, with man and earth in perfect harmony. Austere and luminous pastels blend with romantic floral tones, forming

a serene range of shades that inspire sensitivity and simplicity. Delicate fabrics shine in sheer chiffons and organzas, while simplistic and synthetic fabrics take a technical route with Tencel and Cupro rayons, triacetates, vero viscose and performance polyesters.

NATURAL-HARMONY

Revel in nature's fragrant floral fields, vibrant vegetable gardens and rustic rural landscapes. We blend old and new, natural and man-made to create an eco-urban way of life. Fruity and floral pops add vibrance as botanical, natural neutrals stabilise this balanced palette. Eco-friendly fabrics are key in organic cotton, linen and hemp. Natural pigment dyes, eco washes and biodegradable denims make a statement.

VIRTUAL-ENERGY

Virtual becomes reality as our digital and physical lives morph to create a high-tech existence beyond our wildest imaginations. Self-expression skyrockets in a new world fuelled by dynamic innovation at supersonic speeds. Illusionary worlds, digital dynamism and outer-space wonder collide in a gamut of shimmering crypto-tones and explosive artificial brights. Newage futurism pushes the limit

with bio synthetics, smart textiles and wearable technology. Waterproof, cooling, anti-UV and antibacterial coatings are now standard.

EARTH-CELEBRATION

We rejoice in our shared soil, water, air and land; and pay homage to these life-sustaining resources. As the earth heals and nourishes, we come together in celebration of culture and community, discovering the delight of our diversity.

A rich array of organic tones extracted from exotic vegetation and tropical flowers form a complex range of zesty bursts and mellow darks. Rustic refinement is at the forefront with a myriad of natural fibres including marled and mélange linens and hems. Botanical dyes, Shibori and pigment prints feel organic and sustainable. Intertextile Shanghai Apparel Fabrics – Spring Edition 2022 will be held concurrently with the Spring Edition of Intertextile Shanghai Home Textiles, Yarn Expo Spring, CHIC and Intertextile Shanghai Apparel Fabrics – Spring Edition 2022 Shanghai, China, 14 – 16 April 2022. National Exhibition and Convention Center (Shanghai). The fair is coorganised by Messe Frankfurt (HK) Ltd; the Sub-Council of Textile Industry, CCPIT; and the China Textile Information Centre.

PUSHING THE BOUNDARIES OF CIRCULAR DENIM SOLUTIONS SINCE 2006

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2017



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2021



...to eliminating waste water in garment laundry through proprietary techniques.



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TEXWORLD EVOLUTION 2022

The February 2022 edition marked the return of the international sourcing platform Texworld Evolution Paris in its classic configuration. After two years, the professionals of the fashion industry were able to meet the international manufacturers selected by the Messe Frankfurt France team in the Hall 4 of the Paris-Le Bourget Exhibition Center.

*Paris, 17 February 2022
Dimitry Helman
Messe Frankfurt France.*

For this re-launch edition, which brought together 200 exhibitors from 16 countries, the four exhibitions of Texworld Evolution Paris welcomed 2,800 professional visitors over three days. The participation was particularly satisfying, given the limitations imposed by the health crisis on international travellers, especially from China and India. These figures show that the textile and clothing offer proposed by the platform was expected by the professionals. In the opinion of the first visitors, the climate that prevailed from the opening was very clearly business-oriented. « The demand expressed by fashion, textile and clothing professionals remained very strong for us to keep our platform running in spite of the constraints, underlines Frédéric Bougeard, President of Messe Frankfurt France. We have naturally responded to this expectation by providing the most complete overview of the international offer cur-

rently available on the market in the context we are experiencing. We are currently the only ones to provide such a large sourcing service in Europe », he concludes. A gradual return of international professionals Whether it is Apparel Sourcing Paris for the finished garment sourcing, Avantex Paris for new materials and innovative processes, Leatherworld Paris dedicated to the leather and related materials market, or Texworld Paris for textile sourcing, the Texworld Evolution Paris trade fairs have recovered their international scope: the share of foreign visitors has indeed reached 65%, for 35% of French. Turkish professionals were present, as were Spanish, Italian and British, as well as Germans. The return of contingents from across the Atlantic, from the USA, Colombia and Brazil, should also be noted. The specific configuration of this show, on a single hall for this re-launch session, allowed manufacturers to fully express their know-how, highlighting and making more visible the quality and creative approach of a part of the global offer. Turkey and Korea, loyal partners of Texworld

Evolution Paris, were able to bring together more than 60 companies under their respective national pavilions. Uzbekistan, with a delegation of some twenty manufacturers, also took advantage of the show to support the export strategy currently being pursued by the national textile industry. During the opening press conference, the Uzbek ambassador to France, insisted in particular on the upgrading efforts undertaken in recent years by Uzbek manufacturers to reach international standards in terms of social and environmental responsibility. Maintaining the link with Chinese manufacturers The "Source In China" area, located at the entrance to the show, also enabled Chinese companies that were unable to travel to Paris to present their products in a dynamic way. Agents and experts from Foursource, the digital partner of Messe Frankfurt France, and a QR codes system assisted visitors, answered technical questions and provided a link with 25 manufacturers of fabrics and finished products.

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PREMIERE VISION PARIS A SUCCESSFUL EDITION MARKS THE SECTOR'S REVIVAL, AND RISES TO THE CHALLENGES OF TOMORROW'S FASHIONS.

Paris, 17 February 2022

Igor Robinet-Slansky

Press Officer

Première Vision Paris, the leading trade show for the upstream global creative fashion industry, takes stock of its latest hybrid edition, which featured a trade show on February 8, 9 & 10 at Paris Nord Villepinte and an online Digital Week hosted on its website from February 7 to 11. The dual physical and digital edition succeeded in bringing together the market's major players around the key issues driving fashion at this time of economic recovery for the sector. With over 74,600 visitors - including 60% international - attendance was up 18% compared to the September 2021 event, attesting to Première Vision's central role in the creative fashion industry. On the program at this latest edition was a selective offer centered on the latest developments from 1,080 exhibitors - including 63 new companies -

from 41 countries, accessible at the Villepinte show and online on the Première Vision Marketplace. In addition to the offer and the opportunities for meetings and discussions between buyers and suppliers, forums and fashion inspiration spaces at the show, including a 3D forum and an online Live Sourcing experience, helped guide professionals in building their spring-summer 23 collections. Finally, this session marked the return of a series of 20 conferences, including fashion seminars, at the physical show as well as a selection of online Digital Talks. Videos of the conferences can be watched by visiting: [REPLAYS OF THE TALKS](#). Press Release: show report | February 17, 2022 As at the hybrid event, the number of visitors to the physical event - with 21,300 professionals in attendance - was up sharply (+24% vs. September 21), with a higher proportion of international visitors than last September (57% of the total vs. 53%). The top 10 vis-

itor countries were mainly European, with a good increase in the number of Italian visitors and a spectacular rise in the number of visitors from Spain and the United Kingdom, whose visitors doubled since the September event. Outside of Europe, visitors from Turkey and the United States were back, while travel restrictions continued to impact professionals from Asian countries (Korea, Japan, China). For its part, the Digital Week also broadened its audience, registering 63% international visitors at a time when health restrictions remain strong. On the Première Vision Marketplace, the number of page-views for the e-shops of exhibitors registered for this edition totaled 61,725, compared to 60,124 last September. All these indicators validate the resilient, hybrid format of the event, which the organizers have continually evolved to better respond to market expectations.



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PREMIÈREVISION

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FIBERPARTNER'S PET PRIMALOFT BIO FIBERS TESTED ON SPUNLACE PILOT LINE



Andritz's carded and Jetlace hydroentanglement process produced spunlace fabrics from 35 to 50 gsm. Andritz has tried the first-ever biodegradable Fiberpartner PET 1,4 den spunlace nonwoven fiber on its carded and Jetlace hydroentanglement process. Production trials were done on the Andritz Perfojet pilot line in Montbonnot, France. Andritz produced nonwoven spunlace fabrics from 35 to 50 gsm, with 100% PET PrimaLoft Bio fiber. As a result, the fibers are confirmed processing by the Andritz spunlace sys-

tems as other standard PET fibers. INDA Announces Timing Changes to Major Events: Moves IDEA® to a Two-Year Cycle and FiltXPO™ to Every 18 months. Cary, NC, Feb. 10, 2022 – INDA, the Association of the Nonwoven Fabrics Industry, announces today that IDEA® – the World's Preeminent Event for the Nonwovens & Engineered Fabrics Industry – will be held every two years instead of three starting in 2024. The upcoming dates for IDEA® under the new schedule will be March 28-31, 2022, as currently scheduled, and then April

23-25, 2024. Both will be held as live, in-person events at the Miami Beach Convention Center in Florida. Exhibition and registration details are available here. "INDA has three key reasons for making this change in event frequency," said Dave Rousse, INDA President. "First, the nonwovens industry has been a vibrant, innovative sector with new products, processes and materials every year, so providing an opportunity to showcase more frequently these new developments better serves the industry. Second, one



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of the major nonwoven events in Asia has declared they will run each and every year, impacting the past three-year cycle of major shows in the nonwovens industry. Third, coming out of the Covid pandemic, market research predicts for the near future that regional events are expected to be better supported than global events." The last time IDEA® was held in 2019 it broke all attendance records. INDA expects the 2022 edition March 28-31 to attract several thousand senior-level buyers and attendees from over 60 countries and several hundred exhibitors from a myriad of industry sectors, including absorbent hygiene, wipes, filtration, medical and surgical products, personal protective equipment, home and office furnishings, transportation, geosynthetics and building construction. "As we emerge from the pandemic, our members and the entire industry realize the power of gathering in-person at live expositions and conferences like IDEA®," said Rousse. "This new schedule, approved by the INDA Board, responds to the new findings in event research, developments in Asia, and to the need for our industry members in North America and beyond to create more opportunities to showcase their offerings, make new connections, and grow their businesses. We are excited for the 21st edition of this premier event coming in 7 weeks and the 22nd edition of IDEA® in 2024. We encourage

everyone to mark your calendars and start planning for the 2024 future dates."

FiltXPO™

FiltXPO™, North America's only exposition and technical conference dedicated exclusively to the filtration and separation industry, will be co-located with IDEA® in Miami Beach this March 29-31 to avoid conflicting with other filtration events that were originally planned in 2021. FiltXPO™ then returns to an 18-month schedule and will next take place October 10-12, 2023, at Navy Pier, Chicago, Ill. "Establishing this new timing for IDEA® and returning FiltXPO™ to its original cycle aligns with our industry's needs to continue the growth of the nonwovens industry and establish its global leadership and versatility in delivering essential, environmentally-responsible materials and products," he said. "With a more frequent IDEA® cycle, INDA will be better positioned to overcome business challenges and to support our members at the highest level."

These scheduling moves support INDA's newly developed strategic plan guiding its activities. That plan is based on the following five pillars:

- Convene and connect the industry through trade shows and conferences
- Achieve industry relevance among policymakers, end-users, and other key stakeholders
- Advocate for the Nonwovens

Industry in public policy forums

- Deliver market insights for better decision making
- Provide training programs to sustain the industry's innovative edge

For full details about the IDEA® expo, conference, essential short courses, or to register, visit idea-show.org, +1 (919) 459-3726.

For full details about the FiltXPO™, expo, conference, training, or to register, visit filtxpo.com, T: +1 (919) 459-3729.

About INDA

INDA, Association of the Nonwoven Fabrics Industry, serves hundreds of member companies in the nonwovens / engineered fabrics industry doing business globally. Since 1968, INDA networking events have helped members connect, innovate and develop their businesses. INDA educational courses, market data, test methods, consultancy and issue advocacy help members succeed by providing them the information they need to better plan and execute their business strategies. INDA Media is the business-to-business publishing arm of INDA and publisher of International Fiber Journal and International Filtration News, which reach a vast network of professionals who employ fibers, filaments, and filtration systems to optimize their application environments.



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AUSTRALIAN COTTON CROPS THIS YEAR TO BE 2ND BEST ON RECORD

Owing to favourable conditions across most of Australia's cotton growing regions, the country's production this year is expected to be second best on record, according to Cotton Australia. Australian cotton, which is among the best quality sustainable cotton, was impacted by drought in 2019-20 when its yield was less than 590,000 bales, followed by 2.8 million bales last year. "Substantial rain late last year and early this year have growers optimistic, and if good conditions continue, a crop of around 5.2 million bales is possible," Cotton Australia CEO Adam Kay said in a press release. Kay said some regions haven't had enough rain and others have suffered severe flooding, but the majority of growing regions have benefitted from warmer temperatures, good rain and manageable pest issues. It



goes to show how diverse our cotton growing regions are with some farmers separated by thousands of kilometres. But what is clear is that most of Australia's 1500 growers are busy preparing for a good year and hoping they can find staff to help them through to harvest. "While the

yield per hectare can also vary significantly, particularly with dryland and irrigated cotton, some are forecasting 12-14 bales a hectare under irrigation. Good results are also expected in dryland areas because of the rain and natural conditions this year," Kay added.

JAPAN'S ASAHI KASEI TO PRODUCE ACRYLONITRILE WITH BIOMASS RAW MATERIAL

4. February 2022

Japan's Asahi Kasei has announced that, Tongsoh Petrochemical, a South Korean subsidiary, has got ISCC PLUS certificate for its acrylonitrile (AN) as a sustainable product, and production of AN using biomass propylene is scheduled

to begin in February 2022. AN is a raw material to make ABS resin, acrylamide, acrylic fibre, and other chemical products.

Recent demand growth has been particularly robust in the applications of carbon fibre as a material to reduce the weight of wind tur-

bine blades, etc., and nitrile rubber for medical gloves whose use is expanding due to heightened awareness for hygiene. In order to achieve carbon neutrality by 2050, measures to reduce CO2 emissions throughout the product chain of fossil fuel-derivatives are gaining

momentum, and AN-customers are increasingly seeking to manufacture products using AN with low CO2 emissions in order to contribute to GHG reduction, Asahi Kasei said in a media statement.

Under these circumstances, Asahi Kasei and TSPC sought to reduce CO2 emissions across the AN supply chain, and in October 2021, TSPC became the first AN manufacturer in Asia to acquire ISCC PLUS certification. The certification system enables TSPC to produce and sell AN using biomass raw material allocated by the mass-balance method. TSPC is scheduled to begin producing AN using biomass propylene in February 2022. In order to contribute to society's carbon neutrality, the Asahi Kasei will continue efforts



to further reduce CO2 emissions by improving the AN catalysts and processes based on original technologies as well as the procurement of

biomass raw material, aiming to be a global sustainable partner for its customers.

JAPAN'S ASAHI KASEI TO PRODUCE ACRYLONITRILE WITH BIOMASS RAW MATERIAL

For the second time in a row, the speciality viscose fibre manufacturer Kelheim Fibres was awarded a place on the podium at the Cellulose Fibre Innovation of the Year Awards. The concept for sustainable menstrual underwear made from Kelheim's functionalized speciality fibres achieved third place. Kelheim Fibres thus emerges from the competition as the most innovative fibre manufacturer.

Natalie Wunder presented the promising concept from Kelheim at the International Conference on Cellulose Fibres and is pleased

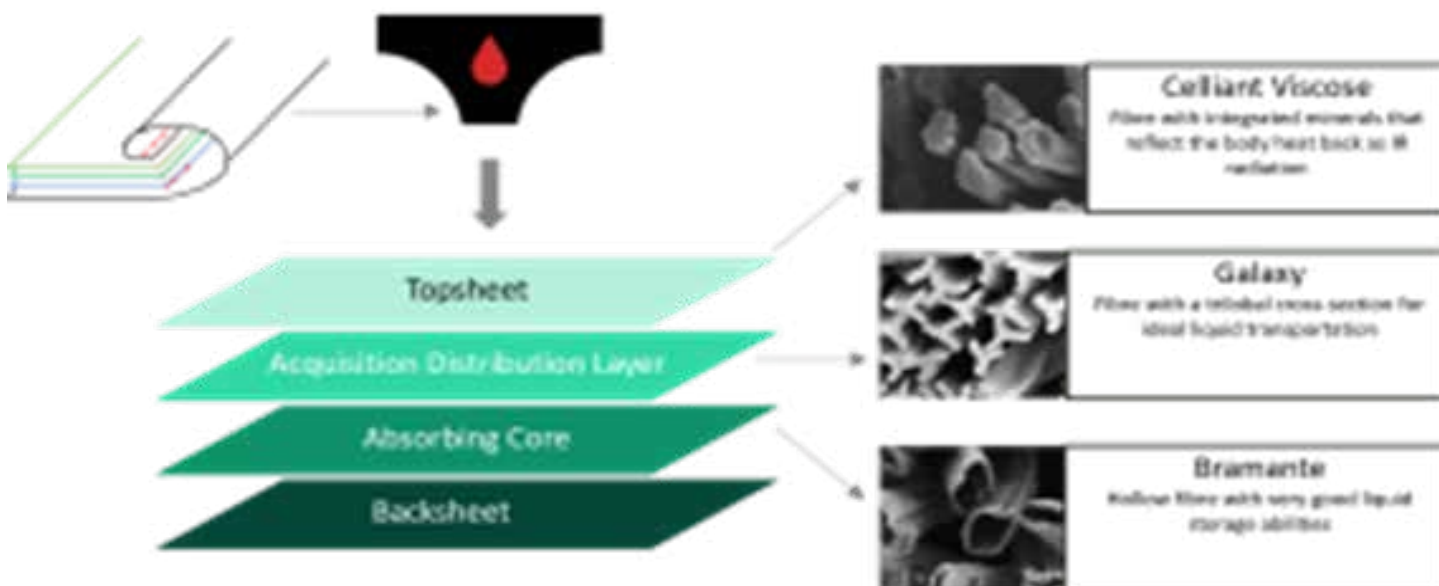
about the great interest and the placing: "We have been able to use our experience as a long-established supplier for the tampon industry to develop further sustainable solutions in the feminine hygiene sector, in this case reusable menstrual underwear. As an innovation pioneer, we are thus helping to break the taboos that surround the topic of menstruation. We offer women the choice between different environmentally friendly products which also offer high levels of performance – depending on what fits their lifestyle."

For the next step, the commercialisation of the concept, Dr Marina Crnoja-Cosic, Director New Business Development at Kelheim Fibres, puts her trust in the proven open innovation approach: "We want to bring partners from the entire value chain together. By bringing in our joint expertise, we can significantly accelerate the path from idea to finished product in the market. At the same time, through open dialogue, we ensure that the concept works seamlessly from fibre through processing to the final product."

RETECH

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PRECISION TEXTILES OFFERS SUSTAINABLE BEDDING SOLUTION

Patent pending Purloft is made with inherently flame-retardant wool fibers, also regulates body temperature and offers moisture management. Karen McIntyre, editor 02.09.22 As part of its ongoing commitment to develop sustainable products that meet the needs of its customers, Precision Textiles a leading supplier of coated fabrics, nonwovens and laminations for the bedding, automotive and healthcare industries, has launched a new product called PurLoft to help manufacturers meet consumer demand for natural, more sustainable mattresses. PurLoft is an environmentally friendly alternative to 100% synthetic high loft fire barriers for bedding products. It is offered in varying weights and made with

renewable wool fibers, which are naturally flame retardant. Incorporating wool directly under the sleep surface offers a high-performance, sustainable alternative that is not only FR compliant, but also creates air pockets, which act as natural insulators to help regulate body temperature. PurLoft also offers superior moisture management as well as odor and allergen protection. In addition, the naturally crimped wool fiber helps products retain shape longer, making it more durable.

"We have always been at the forefront of sustainability. Our R&D team continues to work with that goal in mind and they have once again developed an innovative solution, backed by service and quality, to demonstrate our ongoing com-

mitment to the environment with products that help meet our customer's needs," says Scott Tesser, CEO of Precision Textiles.

"The inherent flame retardant properties of wool make it a very effective, eco-friendly solution for an FR barrier product," says Keith Martin, vice president of Precision Textiles. "Wool helps transfer moisture away from the body. Unlike many manmade fibers where perspiration build up can become a breeding ground for bacteria, wool's natural breathability reduces the risk of the mattress taking on unpleasant body odors. We not only developed a more natural FR solution, but also a more comfortable sleep experience."



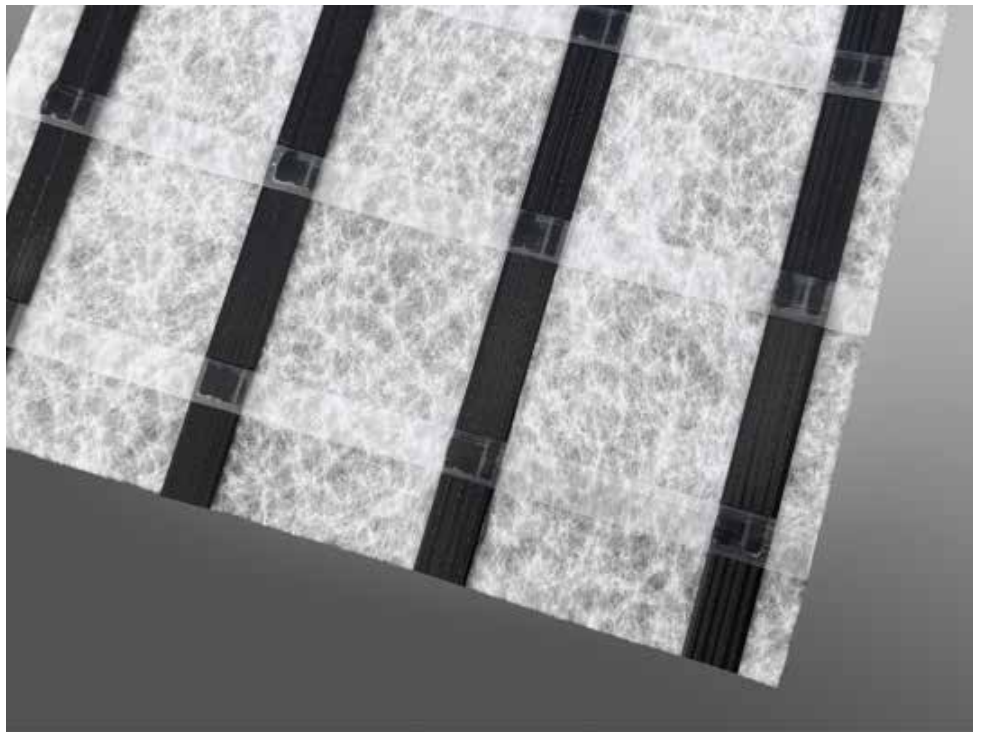
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FREUDENBERG PERFORMANCE MATERIALS DEVELOPS GEOGRID COMPOSITE

Product made of a reinforcing grid bonded to a separation and filtration nonwoven geotextile. Photo courtesy of Freudenberg Performance Materials. Freudenberg Performance Materials, a leading global supplier of high-performance geosynthetics for the civil engineering market, presents a new geogrid composite. Aimed at increasing the efficiency of construction projects, the product consists of a reinforcing grid bonded to a separation and filtration nonwoven geotextile. Customers can obtain the new geocomposite EnkaGrid MAX C



as of now. It is part of the Enka Solutions range for civil engineering applications. When weak subgrade soils are present, most infrastructure projects such as the construction of traffic areas require installation of two products: a geogrid to reinforce the granular layers of the subbase and a nonwoven geotextile for filtration and separation. "This means that the same work has to be done twice to purchase two products, get them to the site, manage stock and lay the geogrid and the nonwoven geotex-

tile," explains Tamás Szatmári, head of Application Management. "By providing the three required functions in one product, EnkaGrid MAX C substantially cuts complexity and costs for every stakeholder involved. Installation, for example, can be completed up to twice as fast."

EnkaGrid MAX C is made up of a biaxial geogrid bonded at intervals to a needlepunched nonwoven geotextile. The bonding method chosen guarantees optimal interlocking of granular soils

with the geogrid.

EnkaGrid MAX C can be ordered in tensile strengths ranging from 20 to 80 kN/m. It is supplied on rolls with a width of five meters. "The geogrid composite comes with extensive support offered by our team of experienced application managers. They assist engineers and clients from feasibility study to design and execution," concludes Szatmári.

GERMANY'S GOTS, OCA & TEXTILE EXCHANGE ADD 21 LABS FOR GM COTTON TESTS

01 Feb '22

Germany's GOTS, the Organic Cotton Accelerator (OCA), and Textile Exchange have announced the renewal of the global ISO IWA 32:2019 proficiency test for a second year in a row, under technical support from Wageningen Food Safety Research. The joint project has reached a new milestone with an expanded list of twenty-one laboratories from Europe, Asia and North America who have successfully passed a new round of the proficiency test in 2021.



The initiative aims to provide the sector with an up-to-date overview of global laboratories that can currently conduct GMO testing as per the ISO IWA 32:2019 protocol – a common language among laboratories worldwide to screen for the potential presence of genetically modified (GM) cotton along the organic cotton value chain, GOTS said in a press release.

As qualitative GM cotton screening using the ISO IWA 32:2019 protocol is mandatory within the GOTS and OCS (Organic Content Standard) supply chain and OCA's Farm programme, the expanded list will provide many stakeholders in Organic Cotton with the clarity they need for taking all reasonable precautions to prevent GM cotton in their organic

cotton produce while supporting the rapid sector growth seen globally.

The updated overview of the laboratories that successfully passed the proficiency test in 2021 has now been jointly published by GOTS, OCA and Textile Exchange.

"At OCA, we believe that by working collaboratively we can make the necessary strides to bring the organic cotton sector improved transparency and integrity, so it is great to see more laboratories implementing the ISO IWA 32:2019 worldwide. This round of proficiency test enabled us to chart additional laboratories that can be contacted to reliably conduct GMO tests as per the ISO IWA 32:2019. The initiative has also expanded to

more geographies compared to last year, including Turkey and the United States," OCA's programme manager at Mathilde Tournebize said in a statement. "This initiative shows that through partnership and alignment, we can bring the sector much-needed clarity on qualitative GMO testing in cottonseed, leaf, fibre and chemically unprocessed fibre-derived cotton," Rahul Bhajekar, managing director at GOTS said.

"The ISO IWA 32:2019 proficiency test initiative will be repeated regularly. More laboratories are welcome to apply for the next round of proficiency test, which will likely be organised in Q1 2023," Amish Gosai, supply network and South Asia senior manager at Textile Exchange said

COTTON AREA IN INDIA TO RISE BY 20-25% IN NEXT PLANTING SEASON: CAI

31 Jan '22

The Cotton Association of India (CAI) expects area under the crop to rise by 20-25 per cent in the upcoming planting season across all ten producing states due to high prevailing prices. In a press release, the association also suggested a hike in the minimum support price (MSP) for extra-long staple (ELS) cotton to encourage growers and reduce imports. Some cotton manufacturers told the association that the orders and demand for cotton seed from dealers across the country has increased by 50-60 per cent and this demand will continue to rise in the coming months.

“Looking at this higher demand for cotton seed and the higher rates for cotton, it looks like the sowing area

will increase by 20-25 per cent in all 10 cotton growing states,” CAI president Atul Ganatra told an agriculture ministry meeting recently.

The country's cotton crop size for this season (September 2021-October 2022) is estimated to be 348 lakh bales of 170 kg each, according to CAI. The carry forward cotton stock last year was 125 lakh bales, while this year, it was 75 lakh bales and now on September 30 this year, it will be 40/45 lakh bales, it said in a press release.

This higher rate of ₹9,000-₹10,000 per quintal of raw cotton (kapas) will attract farmers of other crop like soybean, groundnut and chillies towards cotton in a big way, CAI said. CAI also suggested raising the MSP of ELS cotton by 25-30 per cent

and removal of price control on sale of cotton sowing seed. At present, India is dependent on import of ELS cotton. If price control is removed, the seed company can increase the seed rate and give new technology seed to farmers, which will help increase cotton yield, which now is the lowest in the world—475 kg/ha against the world average of 800 kg/ha. India's production in the last five years is at a standstill, at around 350 lakh bales of 170 kg each, but at the same time its cotton consumption has gone up from 310 lakh bales to 345 lakh bales. Therefore, if India fails to raise cotton production, it has to import cotton in a big way, CAI added.

COTTON AREA IN INDIA TO RISE BY 20-25% IN NEXT PLANTING SEASON: CAI



January 31, 2022

IMAGE: ALEKSEI ZAITCEV/UNSPLASH Raw material sourcing is

more important than ever. Evolving attitudes among brands, retailers and consumers are creating de-

mand for greater sustainability and transparency — starting at the seed and throughout the entire supply

chain.

Now more than ever, there is an imperative and understanding for the need to protect and preserve the planet. In October 2021, COP26 brought together many fashion brands and highlighted the need for sustainability within the industry. The event resulted in a new version of the United Nations Environment Program's fashion industry charter, launched in 2018, which now includes 130 signatories — including Adidas, Burberry, Gap Inc, Kering, Nike and more.

Evolving attitudes and changing priorities among brands, retailers and consumers are creating demand for greater sustainability and transparency — starting at the seed and continuing throughout the entire supply chain. In fact, the updated fashion industry charter highlights the need for collective action in sustainability. It focuses on the need to achieve net-zero emissions globally by 2050, readdressing supply chains, and a shift in attitude from profit driven to well-being of the planet.

The US cotton industry's existing commitment to leadership in more sustainable cotton-growing practices has been clear over the past 35 years. It has made significant strides in reducing its environmental impact, decreasing water use, soil loss, greenhouse gas emissions and energy use while increasing soil carbon and land use. But the US cotton industry knew there was still work to be done to ensure that it contributed to the protection and

preservation of the planet.

Launched in 2020, the U.S. Cotton Trust Protocol is a farm-level, science-based program that sets a new standard in more sustainably grown cotton. It brings verifiable goals and measurements to cotton production — driving improvements in land use, soil carbon, water management, soil loss, greenhouse gas emissions and energy efficiency.

The Trust Protocol allows US producers to showcase their sustainable practices and how they have been, and will continue to be, leaders in sustainability on a global scale.

"The Trust Protocol measures, evidences and verifies sustainability credentials," said Dr. Gary Adams, president of the US Cotton Trust Protocol. "With the Trust Protocol, we are providing access to more sustainability grown cotton for brands and retailers; and science-based, data-led assurances that their consumers can have confidence in — something that has been lacking in the industry to date."

Trust Protocol members have access to aggregate data based on self-assessment questionnaires of participating growers in key sustainability metrics. This data-based approach — backed up by independent, third-party verification from Control Union Certifications North America — gives brands and retailers the critical assurances that the cotton fiber element of their supply chain is more sustainably grown.

But the program does not stop there. Recognizing the growing

importance of increased supply chain visibility to brand and retailer members, the Trust Protocol has selected to collaborate with TextileGenesis™ to be the world's first sustainable cotton fiber to offer its members article-level transparency across the supply chain.

The Protocol Consumption Management Solution (PCMS) combines the Trust Protocol Platform and TextileGenesis traceability platform to provide members with complete supply chain transparency. The PCMS tracks shipments and inventories and ensures only Protocol-eligible materials are used in the production of products. It offers dual verification at every level of transaction — first upon entry by ensuring availability of the eligible raw material and then upon completion — validating the information on the invoices and shipping documents, enabling a higher standard for transparency.

In its first year, the Trust Protocol has welcomed more than 560 brand, retailer, mill and manufacturer members — including Levi Strauss & Co; PVH Corp and its brands, Calvin Klein and Tommy Hilfiger; Gap Inc and its Old Navy, Gap, Banana Republic and Athleta brands; as well as global apparel manufacturer Gildan.



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UK'S PARAVIR DEVELOPS ANTI-MICROBIAL FOR HEALTHCARE

UK's Paravir has developed a novel, IP-protected, composite material using readily available dry powders impregnated into off-the-shelf, nonwoven material of the type used in face masks, surgical clothing, and equipment. Recent testing at UK laboratories has confirmed the destruction of 99.99 per cent of the microbial population in under 20 minutes.

This represents a world class solution to a global problem with low manufacturing cost. Paravir offers the opportunity to license or acquire nov-



el technology for production of antimicrobial nonwoven fabrics. The Sage group is advising Paravir in their global search for manufacturing and distribution partners, the company said in a press release.

Paravir has novel IP and core knowledge in the production of easily manufactured, low cost but highly effective, disposable, non-woven composite material with stringent anti-microbial properties. The manufacturing technology embodies a dry approach and can be incorporated on virtually all standard production lines for non-woven fabrics. Paravir's innovative approach includes novel material composition and novel manufacturing technology. The active compound used is environmentally

friendly, approved and generally regarded as safe. It is also low cost and is universally available. The Paravir process uses impregnation of a dry non-metallic powder which is safe, readily available and low COGS. The resulting material is non-harmful to humans, animals, marine and plant life; it has been proven to eliminate >99.99% of all microbial activity in under 20 minutes, eliminating harmful bio-burden. Existing products in the market contain silver, copper and zinc. The global presence of COVID-19 has highlighted the shortcomings of non-woven materials which generally lack anti-microbial properties. This is largely due to the cost and complexity associated with their manufacture. The present pandemic will

persist for years, and other ever present epidemics re-enforce the need for effective, easily manufactured anti-microbial material, particularly in the surgical and healthcare arena, according to Paravir.

"Paravir's highly innovative lead product has potential applications in any healthcare modality requiring a disposable material with anti-microbial properties, particularly face masks, curtains, wound dressings, gowns, bed linen, and apparel for patients and staff. Paravir looks forward to interacting with commercial and manufacturing partners worldwide," Timothy Laing, CEO of Paravir, said in a statement.



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CUSTOMER- AND MARKET-ORIENTED SYSTEMS SOLUTIONS FOR THE NONWOVENS WORLD

Neumünster, February 10, 2022 – Oerlikon Nonwoven will be traveling with its entire product portfolio to this year's IDEA, being held in Miami between March 28 and 31, Hall B, Stand 4111. The company will be presenting customer- and market-oriented systems solutions with a special focus on sustainability, quality and efficiency. Very much in line with Dr. Ingo Mählmann's, Head of Sales at Oerlikon Nonwoven, pledge: "We love building systems, machines and components that sustainably manufacture materials from which our customers' successful products are made."

The Phantom technology is revolutionizing the nonwovens process. With its Phantom platform, Oerlikon Nonwoven offers an innovative co-form technology for manufacturing various wet wipes from pulp and polymer fibers. Here, the spunmelt and airlaid processes are combined in a manner that perfectly unites the properties of the starting materials. The material mix can comprise up to 90% cellulose fibers. Alternatively, cotton or synthetic fibers can also be added. Compared to processes such as classical spunlace (hydroentangled carded nonwovens) produced to date, the patented Phantom technology offers ecological, performance and cost advantages. The sustainable process stands out above all with regards to energy efficiency and water consumption as well as user-friendliness. Dispensing with hydroentanglement renders subsequent drying of the material redundant. Product parameters, such as softness, tenacity, dirt absorption and liquid absorption, can be optimally set. The Phantom technology enables the manufacture of

both flexible and absorbent structures and highly-textured materials. Airlaid technology for sustainable nonwovens Pulp or cellulose fibers as raw material for manufacturing nonwovens are currently virtually unrivaled with regards to sustainability and environmental compatibility. The Oerlikon Nonwoven airlaid process is the ideal solution for processing this raw material into high-end products for a wide range of applications. Today, there is huge demand for manufacturing solutions for high-quality, lightweight airlaid nonwovens with economically-attractive production speeds and system throughputs. Here, the patented Oerlikon Nonwoven formation process is setting standards – for homogeneous fiber laying and superb evenness even for nonwovens with low running meter weights. Furthermore, it permits the homogeneous mixing of the most diverse raw materials, including pulp, short- and long-staple natural and manmade fibers (up to 20 mm) and powders, as well as the utilization and combination of the most diverse mechanical, thermal

and chemical tangling methods for creating the requisite product properties. Oerlikon Nonwoven's airlaid technology is also perfectly suited to expanding typical spunlace systems in order to add a cellulose layer to the product that, for example, improves the water absorbency of wipes using a low-cost and biodegradable raw material. QSR: attractive spunmelt systems for the hygiene and medical market. For manufacturing hygiene and medical nonwovens, the QSR (Quality Sized Right) technology offers a financially-attractive solution for producing these highly-diverse spunbond and meltblown composites (SSMMS, SMMS, SSS, etc.) in accordance with globally-accepted standards. As a result of intensive collaborations and partnerships, close-knit quality assurance measures and extensive interaction with its technology partners, Oerlikon Nonwoven is able to equip this type of system with unique features that enable producers to distinguish themselves within their respective markets with special nonwoven properties such as higher volumes,



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themselves within their respective markets with special nonwoven properties such as higher volumes, softness and customer-specific embossed patterns, for example. Filtration: leading meltblown competences from Neumünster Unique and highly-sophisticated nonwovens for filtration, insulation and sorption applications can be simply and efficiently manufactured thanks to Oerlikon Nonwoven's meltblown technology. The polymers used to produce the filter media and membranes are as diverse as their field of applications. The spectrum ranges from classical polyolefins (PP, PE), PET, PLA, PBT and PA all the way through to special plastics such as PPS and TPU. All these, and other raw materials, can be reliably processed using the Oerlikon Nonwoven meltblown technology. Filter media can be efficiently electrostatically charged with the ecuTEC+ electro-charging unit developed by Oerlikon Nonwoven for increasing the filtration performance of meltblown media without reducing air permeability. It distinguishes itself from other concepts currently available on the market as a result of its extreme flexibility. Users can choose from numerous possible variations and hence set the optimum charge intensity for their respective filter applications. However, ecuTEC only represents the beginning of an era of new charging and treatment systems available from Oerlikon Nonwoven for further increasing

media filtration performance and product diversity.

Comprehensive spunbond portfolio – always the right solution For industrial nonwovens, Oerlikon Nonwoven systems are capable of high production capacities and yields with simultaneously low energy consumption. both as backing materials for filter media and as the filter media themselves. A flexible nonwoven structure permits the inclusion of customer-specific requirements for various functions. It is Oerlikon Nonwoven's many years of core-sheath bi-component experience in particular that enable the creation of completely new nonwoven structures and hence the incorporation of various functions in a single material.

About Oerlikon

Oerlikon (SIX: OERL) is a global innovation powerhouse for surface engineering, polymer processing and additive manufacturing. Its solutions and comprehensive services, together with its advanced materials, improve and maximize the performance, function, design and sustainability of its customers' products and manufacturing processes in key industries. Pioneering technology for decades, everything the company invents and does is guided by its passion to support its customers' goals and foster a sustainable world. Headquartered in Pfäffikon, Switzerland, the Group operates its business in two divisions – Surface

Solutions and Polymer Processing Solutions. It has a global footprint of more than 10,600 employees at 179 locations in 37 countries and generated sales of CHF 2.3 billion in 2020. About the Oerlikon Polymer Processing Solutions division With its Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow brands, the Oerlikon Polymer Processing Solutions Division is focusing on manmade fibers plant engineering and flow control equipment 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. Oerlikon HRSflow is particularly at home in the core automotive markets. These include Germany, China, Korea and Brazil. Worldwide, the division – with more than 4,500 employees – has a presence in 120 countries with production, sales and distribution and service organizations. At the Research and Development centers in Remscheid, Neumünster (Germany), San Polo di Piave, Treviso (Italy) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically leading products for tomorrow's world.



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ANDRITZ AT IDEA 2022

FEBRUARY 10, 2022.

International technology group ANDRITZ will be presenting its innovative nonwovens production and textile solutions at IDEA 2022 in Miami, USA, from March 29 to 31 (booth 4104). The broad ANDRITZ product portfolio covers state-of-the-art nonwovens and textile production technologies such as air-through bonding, airlay, needle-punch, spunlace, spunbond, wet-laid/Wetlace™, converting, textile finishing, recycling, and natural fiber processing.

WHAT ARE THE HIGHLIGHTS FOR IDEA 2022?

NEWS IN WIPES TECHNOLOGY DEVELOPMENTS

ANDRITZ offers various nonwoven processes to produce best and cost-effective wipes, like spunlace, Wetlace and Wetlace CP. ANDRITZ also accompanies nonwoven producers in the move to sustainability with the aim of reducing or eliminating plastic components while maintaining the high quality of the desired product properties. This applies to all types of sustainable wipes, such as flushable, biodegradable, bio-sourced, carded-pulp or standard carded wipes. Indeed, hydroentanglement has the advantage of being able to bond any kind of fibers without the use of chemical binders or thermal fusion. It is, therefore, the most suitable

bonding process for natural fibers, such as pulp, cotton, hemp, linen, flax, bamboo, and more. The latest development in this field is the ANDRITZ neXline wetlace CP line, which integrates the card-pulp (CP) process. This is a fully engineered production line combining the benefits of drylaid and wetlaid technologies to produce a new generation of biodegradable wipes. In order to make a meaningful contribution, ANDRITZ has become a member of the Board of the Responsible Flushing Alliance (RFA) in the USA. The RFA is an independent, non-profit trade association committed to educating consumers in responsible and smart flushing habits to help reduce damage to the nation's sewage systems. ANDRITZ is deeply involved in this topic with its technologies for 100% dispersible and biodegradable wet wipes and is highly committed to being part of the RFA. To serve customers even better and offer the best possible R&D and service, ANDRITZ welcomes producers to its spunlace technical center at ANDRITZ Perfojet in Montbonnot, France. It is equipped with the very latest technologies as well as a dedicated team of process engineers. The technical center has been upgraded just recently with an inline pulp formation system and is now the most advanced nonwovens test center

for wipes worldwide. The line configuration is now similar to an ANDRITZ Wetlace CP line.

LATEST TECHNOLOGIES FOR HYGIENE APPLICATIONS

ANDRITZ will highlight the technology development in the spunlaid sector with the patented nonwovens process called Spunjet Soft. This is the in-line hydroentanglement of continuous filaments, Moreover, ANDRITZ will introduce its adult pants converting line, which offers top-class components and an innovative technology process. The growing market for adult incontinence products has resulted in a state-of-the-art process with highest quality standards, such as the development of ultrasonic side seam solutions with excellent results in terms of bond strength and system reliability. As a result, operations and size changes are faster and easier. The modern forming system for higher SAP (superabsorbent polymers) concentration and the turning and placing system guarantee maximum process stability and put the adult pants produced by ANDRITZ customers at the top of the adult hygiene market.

INNOVATIONS IN SOLUTIONS FOR DURABLE APPLICATIONS

Another strong focus lies on technologies for durable nonwovens, especially for the automotive in-



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dustry. The use of nonwovens in the automotive area has increased substantially in recent years. Thanks to the ANDRITZ airlay and needlepunch processes, producers are able to provide the most suitable fabrics for this industry's requirements. The ANDRITZ airlay technology can process all types of fibers and solid particles. It is offered as a complete line with needlelooms, thermobonding or other bonding methods for numerous applications in the automotive and also the furniture, bedding, insulation, and filtration industries.

In addition, ANDRITZ is presenting the brand new ProWin™ technology for profile weight correction in the needlepunch segment, which is used to optimize processes, provide a faster return on investment, and save raw materials. This unit combines the well-known systems ProWid and ProDyn, enabling even better performance, and the same machine can run faster with less mechanical stress. Customers are welcome to conduct trials and compare the different options available in the technical center for

needlepunch processes at ANDRITZ Asselin-Thibeau, Elbeuf, France, and/or in the airlay pilot line at ANDRITZ Laroche, Cours, France. Another very relevant topic these days is textile recycling, which has become a key focus of worldwide sustainability efforts. ANDRITZ is very much involved here with its technologies for textile recycling and processing of recycled fibers.

SPOT-ON AND DIGITAL SERVICE TO KEEP MACHINES RUNNING

ANDRITZ offers a full-service portfolio and thus can ensure improved uptime, productivity, and product quality – for years to come. This includes on-site support, specific training, line audits and troubleshooting, upgrades and modernizations, spare parts, and roll repair centers. In the USA, ANDRITZ is well supported in sales and service by its local branches – ANDRITZ Küsters in Spartanburg, SC, and ANDRITZ SHW in Torrington, CT. Moreover, customers can bring their production to a new level with ANDRITZ digital technologies combined under the Metris technology brand. One focus is the Metris UX digitalization plat-

form, which provides full support for industrial plants throughout their entire life cycle. It combines a complete set of functionalities for professional production management, simulation and optimization using the latest artificial intelligence methods, plus cyber security, and condition monitoring with smart sensors in an integrated approach.

VISIT THE ANDRITZ BOOTH – PHYSICALLY AND DIGITALLY

A special highlight for IDEA is the virtual booth called the “ANDRITZ Teleport”. For customers who cannot travel to Miami due to the travel restrictions, ANDRITZ offers the opportunity to enter this booth and discover state-of-the-art technologies, obtain the latest marketing material and press information, and meet the ANDRITZ team. The entire ANDRITZ Nonwoven team is looking forward to welcoming customers to its booth (4104) in person and online in the “ANDRITZ Teleport” virtual booth.



ANDRITZ neXline wetlace CP for pulp-based wipes



ANDRITZ Diatec adult pant line



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- Thanks to non contact spray application
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- High appreciation of brands and retailers
- Unique and high range of product development possibilities in different shades
- Overdyed look in front or back side as per customer's demand
- 50% reduction of chemical cost
- Appreciation of sales price
- Sustainable production process
- No shade variation
- No center side variation



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TRUETZSCHLER WORLDWIDE: TRUETZSCHLER IN INDIA

January 28, 2022

Welcome to Trützschler India: In our latest location video, Managing Director Joseph Thomson and Vice President Kashyap Bhavsar give insights into our subsidiary in Ahmedabad. They talk about the factory, which was founded in 1977, and also share perspectives about our technological innovations – and Trützschler India's core competencies and corporate citizenship activities.

"In 1981, we started manufacturing blow room machines. Some of those first blow room machines are still running in the Indian market, and the customers are very happy with them. As demand

for cards started growing, we began manufacturing the one-meter card. Today, we produce the one-meter card and wider cards, as well as draw frames, combers and lap formers. Trützschler also manufactures a wide range of card clothing products in India," says Mr. Thomson.

After reflecting on the site's portfolio development, Mr. Thomson adds important details about the factory itself. "Trützschler India has a state-of-the-art manufacturing plant, and some of the world's best technologies are used inside the factory. It is also certified in line with the energy management system ISO 50001 2018."

Trützschler India has also been strongly committed to social en-

gagement and corporate citizenship activities for years, for example by setting up its own Trützschler Training Academy in November 2017. Since then, external students who are interested in developing their skills have had the opportunity to complete an additional one-year industrial training at the site in Ahmedabad. "The Academy offers three courses: CNC machine operation, welding and fitting," says Mr. Bhavsar. "It aims to provide students with advanced industrial training as well as employability and life skills such as strategies for learning and quality management."

ORDER INTAKE OF CHF 2 225.7 MILLION IN FINANCIAL

• Order intake of CHF 551.8 million in fourth quarter 2021 • Sales of CHF 969.2 million in financial year 2021 • Implementation of the acquisition of the three Saurer businesses on schedule • EBIT margin of 4.5% to 5% of sales expected in financial year 2021 Due to the continuing high demand for new installations, components and services, Rieter posted an order intake of CHF 551.8 million in the fourth

quarter of 2021. As a result, Rieter achieved a total order intake of CHF 2 225.7 million in the 2021 financial year (2020: CHF 640.2 million). The exceptionally high order intake is broadly supported at the global level. As reported previously, this is based on a catch-up effect from the two prior years and a regional shift in demand. Rieter believes that a major reason for this shift in demand is the development of costs in

China. The orders came primarily from Turkey, India, Latin America, Uzbekistan, China and Pakistan.

At the end of 2021, the company had an order backlog of around CHF 1 840 million (December 31, 2020: around CHF 560 million). Despite bottlenecks in material supplies and freight capacities, sales performance up to the end of the year was better than expected. The Rieter Group closed the 2021 financial year with



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sales of CHF 969.2 million (2020: CHF 573.0 million). Implementation of the Acquisition of the Three Saurer Businesses Effective from December 1, 2021, Rieter is consolidating the components businesses Accotex and Temco acquired from Saurer. With the acquisition of Accotex (elastomer components for spinning machines) and Temco (bearing solutions for filament machines), Rieter is strengthening the market position in the components business. The figures from the two businesses have been incorporated into the results for the 2021 financial year as follows: the 2021 order intake includes CHF 2.1 million and the 2021 sales includes CHF 3.3 million. The two businesses contributed a total of around CHF 27 million to the order backlog at the end of 2021. The acquisition of Saurer's third business (automatic winder) leads to a significant increase in the attractiveness of Rieter's ring and compact-spinning systems and is expected to be completed in the first half of 2022. Accordingly, order intake and sales are not included in the figures for the 2021 financial year. Media Release Rieter Holding Ltd. Klosterstrasse 32 mation on the Financial Year 2021, January

26, 2022 Page 2/4 EBIT Margin Rieter anticipates an EBIT margin of 4.5% to 5% of sales in the 2021 financial year (2020: -14.7%). Rieter will publish the full annual financial statements and the 2021 Annual Report on March 9, 2022. Order Intake by Business Group Thanks to the company's innovative product portfolio and global positioning, all three Business Groups benefited from the high level of demand.

The Business Group Machines & Systems posted an order intake of CHF 1 708.6 million (2020: CHF 363.9 million). The main focus of demand was on ring and compact-spinning systems.

The order intake of the Business Group Components was CHF 296.0 million, an increase of 75% compared to the previous year (2020: CHF 169.1 million).

The Business Group After Sales recorded an order intake of CHF 221.1 million, 106% higher than the previous year (2020: CHF 107.2 million). The main reason for the positive order intake in both Business Groups is the continuing increased demand for spare and wear parts in spinning mills, which are operating at high capacity. Rieter will issue an outlook for the 2022 financial year

at the Results Press Conference on March 9, 2022. Annual General Meeting of April 7, 2022 The 2022 Annual General Meeting of Rieter Holding Ltd. will take place on April 7, 2022. P

About Rieter

Rieter is the world's leading supplier of systems for short-staple fiber spinning. Based in Winterthur (Switzerland), the company develops and manufactures machinery, systems and components used to convert natural and manmade fibers and their blends into yarns. Rieter is the only supplier worldwide to cover both spinning preparation processes and all four end spinning processes currently established on the market. Furthermore, Rieter is a leader in the field of precision winding machines. With 17 manufacturing locations in ten countries, the company employs a global workforce of some 4 900, about 18% of whom are based in Switzerland. Rieter is listed on the SIX Swiss Exchange under ticker symbol RIEN. www.rieter.com



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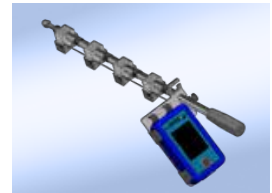
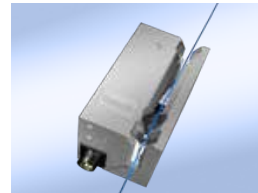
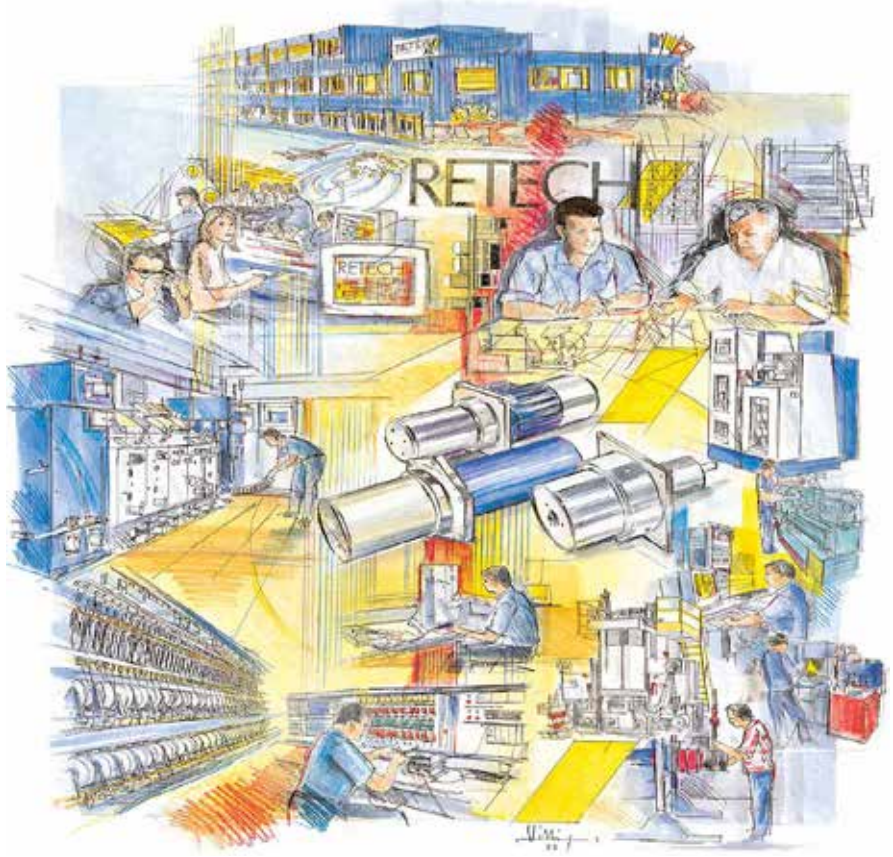
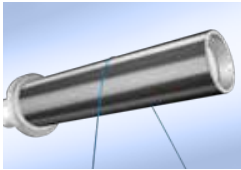
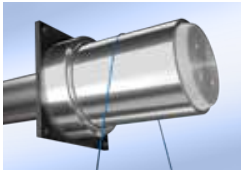
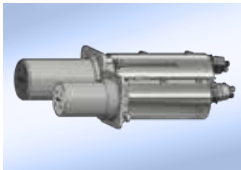
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AZS-616

**CHAIN AND BLANKET SANFOR
MACHINE FOR OPEN WIDE
KNITTED FABRICS**



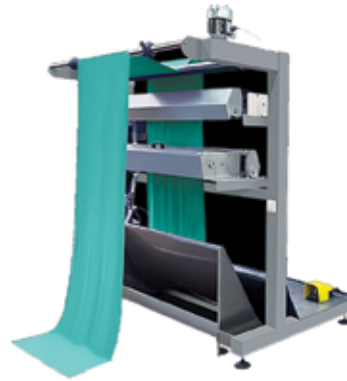
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FOR OPEN WIDE KNITTED
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TS-500

**FOR KNITTED FABRICS
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STM

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OLYMPIC ATHLETES LIKE IT HOT: HIGH-TECH SPORTS AND THERMAL UNDERWEAR MADE BY MAYER & CIE

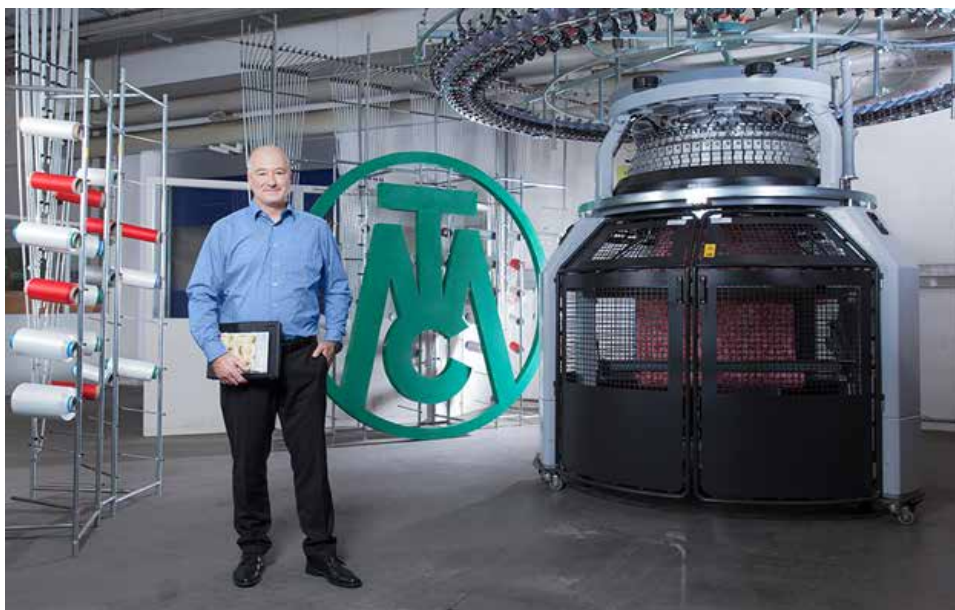
14. February 2022

The Winter Olympics are in full swing. (Real) snow may be in short supply but it is still really cold at the Olympic sports facilities. Along with tricks of the trade ranging from blankets to cold plasters, warm functional underwear is a must for athletes, coaches and spectators alike. It is mostly knitted on circular knitting machines.

"In view of the icy temperatures reported in coverage of the Olympics, thermal underwear would seem to me to be an obvious choice," says Jürgen Müller, head of the patterns department at the circular knitting machine manufacturer Mayer & Cie. His choice of underwear can be manufactured in different ways on a circular knitting machine.

Extra warm thermal underwear: Single jersey, plush and fine rib all deliver warmth and comfort

First is a fully elastomer-plated fabric made of thicker yarns such as microfibrils of between 150/1 and 167/1 dtex, all in E28 gauge. The inside of the single jersey fabric is napped for a fleece effect. Circular knitting machines the Mayer & Cie. expert recommends for this purpose are the MV 4 3.2. II and the S4-3.2. Relanit machines suitable



for the manufacture of thermal underwear are the Relanit 3.2 S, the Relanit 3.2 HS and the Relanit 4.0. Plush fabric with a 1.5 mm short loop also feels like fleece on the skin. The MPU 1.6 knits this fabric in gauges E22 to E28. "Yarn that shrinks a little is especially good for this purpose," Müller explains. "It can be functional microfibre yarn, which is always multifilament." A 10 per cent admixture of elastomer yarn is also common. Silver yarn can be knitted in as an option to prevent unwanted odour generation. The third alternative for circular machine-knitted thermal under-

wear is fine rib fabric napped inside. Elastic by definition, it does not require any elastomer content. "Underwear manufacturers often opt for a mixture of 75 per cent cotton and 25 per cent polyester," Müller says. "On an FV 2.0 or a D4 2.2 the double jersey fabric comes out fine in E22 to E24 gauge." Sports underwear, figure accentuating and extra breathable: Body mapping and fine gauges

Those who perform a physical activity with a high degree of intensity and are quick to perspire should wear as their first layer fine single jersey underwear. "Good results,"



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Jürgen Müller says, “are achieved with polyester and polyamide yarns combined with a higher elastomer content of up to 18 per cent.” The fabric is knitted in fine gauges of E28 to E44 on, for example, an MV 4-3.2 II or an S4-3.2 II. The resulting compression effect makes fabrics especially breathable and easy and pleasant to wear. “Body map-

ping is another trend in sports underwear,” Müller says. It takes the different perspiration areas of the human body into account. Patterns are made with double-sided plating. Body mapping requires larger plain segments in the back or stomach area as well as breathable jacquard areas underneath the armpits or on the sides. Body mapping structures

almost without exception require elastomer plating. That means knitting with three yarns: basic, plated and elastomer. “The right machine for this task is our MJ 3.2 E,” Müller says, adding that “not even this option is likely to keep spectators warm at the Games in China...”

SHIMA SEIKI TO EXHIBIT AT PITTI FILATI 90

SHIMA SEIKI ITALIA S.p.A., Italian subsidiary of leading Japanese computerized knitting solutions provider SHIMA SEIKI MFG., LTD., will exhibit at the 90th edition of the Pitti Immagine Filati exhibition in Florence, Italy. Products exhibited will include the N.SVR123SP computerized flat knitting machine as well as APEXFiz design software. The N.SVR123SP computerized knitting machine features a special loop presser bed, capable of producing hybrid inlay fabrics with both knit and weave characteristics. Demand for such novel fabrics are very high across a wide range of applications, from fashion apparel to sportswear, innerwear, outerwear, uniforms and other functional clothing, as well as home furnishing and technical textiles. Shown in 18G at the SHIMA SEIKI booth, N.SVR123SP will also feature the special i-Plating option, capable of alternating yarn colors in any pattern, producing jacquard-like designs using plain jersey stitch. Plating can be performed within the same course and for individual needles. In combination

with the loop presser and spring-type moveable sinker system even greater diversity in knit design is possible. An SVR123SP machine in 14G with i-Plating option will also be on display at the booth of yarn spinner IAFIL S.p.A. as well.

APEXFiz is subscription-based design software that maintains the proven functions that have made SHIMA SEIKI's SDS-ONE APEX series design systems so popular with fashion designers. Installed on personal computers, those strengths are now enhanced with the added versatility to adapt to different work styles and business environments including teleworking and telecommuting. APEXFiz software supports the creative side of fashion from planning and design to colorway evaluation, realistic fabric simulation and 3D virtual sampling. Virtual samples are a digitized version of sample making that are accurate enough to be used effectively as prototypes, replacing physical sampling and consequently reducing time, cost and material that otherwise go to waste. APEXFiz thereby

helps to realize sustainability and digitally transform the fashion supply chain.

APEXFiz along with SHIMA SEIKI's yarnbank digital yarn web platform are featured at a special section launched at the previous session of Pitti Filati no. 89 called Pitti Studios. Pitti Studios is a content production service that yarn companies exhibiting at Pitti Filati can use for their own promotion. Yarn companies provide a piece of yarn, which is digitized on yarnbank and used to simulate photorealistic fabric on APEXFiz. This is then processed by a creative studio specializing in digital content to provide static and animated 3D virtual representations. The process shows how to use the latest DX tools to provide accurate representation of a finished garment without having to produce any fabric, converting the conventionally wasteful process of sample-making into a sustainable one. Continuing from past editions of Pitti Filati are knit samples produced in collaboration with Italian designer Vittorio Branchizio.

FROM CHOCOLATE TO COMBAT EARLY AFTERNOON GLOOM TO ANIMAL SACRIFICE FOR THE CIRCULAR KNITTING MACHINE: THE FINEST COMPLIMENTS RECEIVED BY MAYER & CIE.

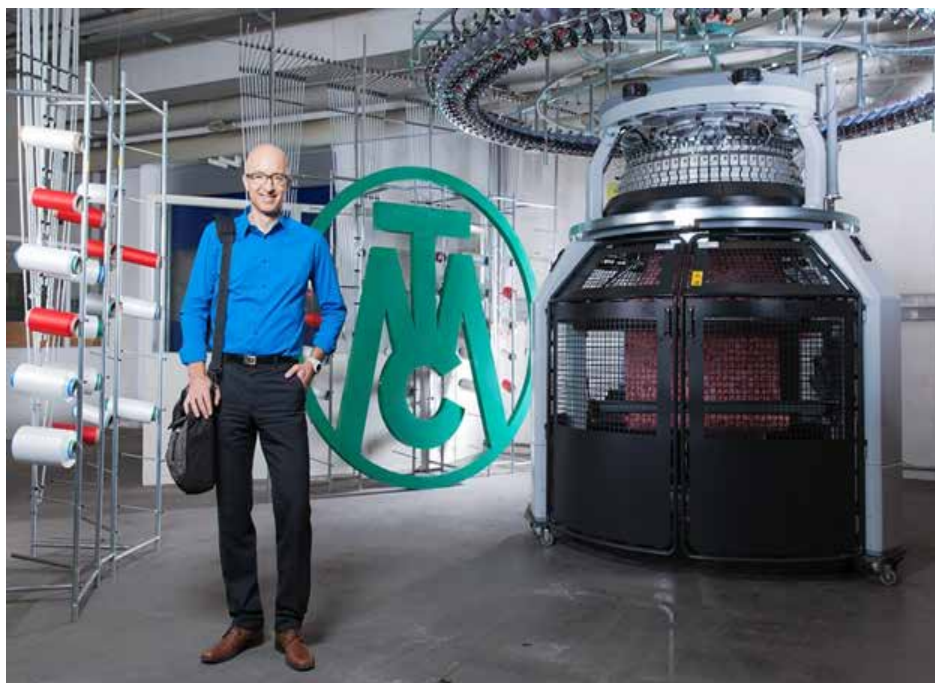
24. January 2022

Wolfgang Müller

Sales Director

To mark today's National Compliments Day we at Mayer & Cie. have conducted a small survey, asking colleagues what was the finest compliment they had ever received for good work.

Modified at once Frank Stuhmann, head of spare parts sales, recalls with pleasure a case in Portugal: "Our customer urgently needed a drive motor for a machine that was not exactly the latest model. The supplier had said that a replacement would take six months to manufacture. The customer was really annoyed and



couldn't afford to shut his machine down for half a year. We racked our brains and managed to modify a motor from another machine. With this "emergency solution" we had the customer's machine up and running again in a week. We were highly praised and the resourceful team received a compliment. That really pleased me!"

Circular knitting machine "blessed" Axel Brünner, head of product management at Mayer & Cie., has bloody memories on the subject of gratitude. "As a young fitter I was at a customer's in North Africa. The machine I had to deal with was more or less broken down into its parts on

the floor. The customer was in despair. He urgently needed the machine and the income it earned him. So I got down to work and put it together. When it was working again he was so grateful that he made an animal sacrifice and would soonest have 'blessed' the machine with it, which we then decided not to do."

This story often leads to a question that product manager Brünner is happy to take as a personal compliment. "Stories like that clearly sound like they come from another world. Those who hear them mostly want to know how long I've been at MCT. It will 44 years this year, and that raises an eyebrow or two: 'How

old were you when you started at Mayer & Cie.?"

"Really straightforward"

Sales director Müller is especially pleased when he is said to be honest. "Talking with a customer in the early days of my career the customer wanted to know whether this could be done, that worked, how long the service life of circuit boards and cylinders was. I always answered without hesitation that this worked, that didn't and the other couldn't be guaranteed. At some point the customer said to his colleague: 'See, this is what I like about this German guy. He's just really straightforward.'"

Cool head Julia Fuss from Sales is

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happy when people are convinced by her approach to work. "It can be hectic in Sales. A customer is urgently awaiting a quotation for a dozen machines or online training is planned and there are lots of queries. That is why I was particularly pleased when somebody once told me: 'The structured way in which you work and how you always manage to stay on top of things is fantastic.'"

Stefan Bühler, head of sales Turkey, bought a new coffee maker for his team in the autumn. A regular player of the role of Father Christmas and the Easter Bunny, he can be relied on, when colleagues are in need of a sugar boost, to conjure up a sweet treat from the drawer of his desk. And he is delighted when his "magic" cheers people up. "You always save us from the 2 p.m. gloom with your chocolate and your good mood," a female colleague once told me. That in turn cheered me up a lot," he recalls. Productivity and creativity - Steiger Compact machine to knit panels, fully fashion, shaped garments, Jacquard and stitch structure combinations. Compact machine to knit panels, fully fashion, shaped garments, Jacquard and stitch structure combinations. Specialized for Intarsia. Machine with one open carriage with three systems and full three-way-technique performing variable intelligent course upon a needlebed width of 130 cm. Electronic selection on each single needle, special Steiger upper take-down complete of comb. Direct yarn feeding on an open carriage with 24 (option 32) motorized

independent yarn-carriers. 12 resp. 16 scissors and clamps in the left and 12 resp. 16 in the right part of the needlebed. Machine available in gauges from E5 to E18/20. Even available in Freegauge version (variable gauge), 7 and 14. Flexibility and highest production Compact machine to knit panels, fully fashion, shaped garments, Jacquard and stitch structure combinations...

Compact machine to knit panels, fully fashion, shaped garments, Jacquard and stitch structure combinations. Specialized for Intarsia. Machine with one open carriage with three systems and full three-way-technique performing variable intelligent course upon a needlebed width of 130 cm. Electronic selection on each single needle, special Steiger upper take-down complete of comb. Direct yarn feeding on an open carriage with 16 motorized independent yarn-carriers. 16 scissors and clamps. Machine available in gauges from E5 to E18/20. Even available in Freegauge version (variable gauge), 7 and 14.

Flexibility and highest production Compact scalable knitting machine equipped with 3 systems, 32 horizontally and vertically motorized yarn-guides. Allows intarsia knitting with full creativity and high productivity.

A new concept of scalable machine is born with the Antares 3.130. This machine is a platform that can accept specific equipment depending on knitwear products. The recognised strengths of Steiger as the take-down and the open carriage

are optimized on the Antares 3.130. New features appear such the horizontally and vertically motorised yarn-guides, a controlled comb. Friendly and easy to use, the Antares 3.130 is part of an innovative concept that includes a new programming software: MODEL+. Intuitive, powerful and easy to access, it makes programming available to the greatest number of people.

Technicity and Flexibility

The VEGA 3.130 is the solution for the knitting of technical and composite material developed by our in-house Stitch Lab specialists. the gap between the needlebeds is adjusted to the specific customer's requirements for producing for example preformed and subsequently solidified parts. An innovative yarn path allows to knit standard fibres as well as semi-rigid yarns without damaging their quality. The well-known characteristics of Steiger as of the open carriage and the motorized yarn carriers are further optimized on the VEGA 3.130 for this application. The take-down is adapted for improves performance on 3D and complex knitting shapes. The optimized cam-box increases even more the productivity of highly complex products. The gear rack clamps assure the fixation as well as the clear cut of a great variety of fibres. the VEGA 3.130 is equipped with an interface S-Touch 2.0. User-friendly and easy to learn, it allows a remote control of selected functions and a remote troubleshooting of the machine.



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HOW TO CUT PRODUCTION TIME IN HALF WITH A DIGITAL TEXTILE COLOR PROGRAM

Fashion and Apparel Colorists can get to approved color faster and more efficiently while dramatically decreasing the textile industry's environmental impact by leveraging more digital tools to specify and communicate color as a part of their color program.

Challenges

Colorists are faced with several challenges as the coordinators of the entire portfolio of color throughout the textile supply chain, including:

1. Designers present ideas based on fashion trends without much thought of color achievability, but most brands don't have the budget to achieve all the top trending colors presented on the runways in Paris and New York.
2. Color achievability varies on solid mixed media across multiple suppliers simultaneously, so each new color requires a lab dip from the supply chain. Shipping physical samples or representatives around the world for review is expensive and time consuming, and dyeing rework contributes to air and water pollution.
3. With a push for fast fashion and increased consumer demand for more sustainable practices, colorists are under a lot of pressure to work faster and smarter.

Solution

Leveraging digital color data from a fleet of calibrated spectropho-

tometers that have tight inter-instrument agreement, formulation software, QC and QA software, colorists can holistically manage a textile color from concept through formulation much faster, often with a single round of lab dips.

Results

By introducing spectral data and color digitization in the design-to-manufacturing workflow, colorists can get to approved color faster and more efficiently.

- Reduce lab dip, shipping and review time from 40 to 50 days to just 10

- Formulate, produce, finish, evaluate quality, and ship in just 6 days instead 30 to 40

How It Works

The process starts with a digital database of approved brand color palettes that clearly defines technical and appearance specifications for each media, such as cotton, nylon, and polyester. The colorist communicates this digital color data and an acceptable tolerance to the supplier(s), who enters the digital data into formulation software to quickly calculate an accurate recipe. After dyeing a fabric sample, the supplier measures it with the spectrophotometer to ensure it is within tolerance of the brand standard and sends a physical lab dip to the colorist for review.

The colorist measures the lab dip

and enters the color data into quality assurance software to compare against the digital color specification and make intermediate decisions on metamerism. If the lab dip is within tolerance and visually matches the other components, the supplier gets a green light to begin production. If not, the colorist can provide specific L*a*b* direction on how to adjust the color and even run QA reports to help suppliers improve their processes.

Featured Products

PantoneLIVE Production – Plastic, Coatings and Textile

A cloud-based database that offers instant access to spectral colors and brand palettes for cotton, nylon, and polyester applications. These standards can be used during design, formulation, and quality control.

Ci7800 or Ci7860

Benchtop sphere spectrophotometers with the tightest inter-instrument agreement and repeatability available to capture precise color data and generate accurate digital color standards.



NetProfiler

Quality assurance software to



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ensure all onsite and offsite instruments are measuring within tolerance and performing within specification.

Color iMatch

Formulation software to achieve initial matches up to 50% faster, cut correction steps in half, and identify ways to rework leftover materials for a more sustainable formulation process.

Color iQC Professional

Quality assurance software to verify color quality and consistency and generate color data performance reports for a real-time view of production quality.

EFFICIENT MANUFACTURING FOR GEOTEXTILES

Geotextiles are an ever-growing market, with one prime consideration for producers - machine efficiency.

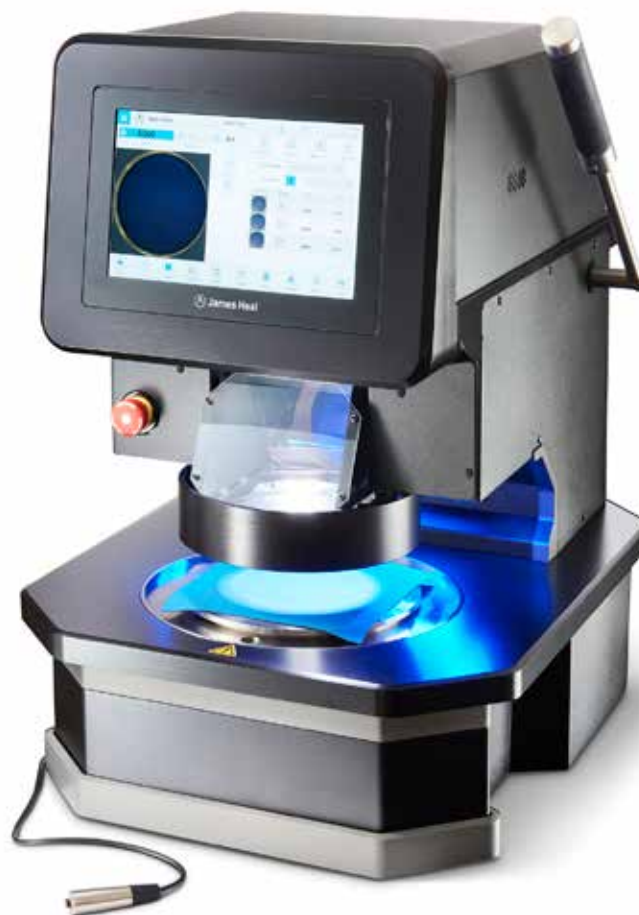
Geotextile manufacturers produce in large quantities and since the quality requirements are not so high, neither are the margins per meter. Thus, the technologies integrated in the production process make a difference in terms of profitability.

Firstly, weaving mills achieve a high level of efficiency during the weaving process by using the WeftMaster SFB electronic weft thread brake. As the number of weft breaks can be substantially reduced, production is not interrupted - and obviously weft break repair time is also saved. You can find more information on how the WeftMaster SFB weft brake increases machine efficiency here: [Higher production efficiency](#)

Geotextiles are used for basic functions such as filtration, drainage, separation of soil layers, reinforcement, or stabilisation in locations like road and railway embankments, earth dikes and coastal protection structures. And, of course, to aid in plant propagation by holding seeds, fertilizers and topsoil in place. In fabric production, a distinction is made between woven, non-woven and knitted geotextiles. Whereas the woven fabrics are said to have a higher resilience since woven fabrics are reinforced by

thread crossing thread, which creates a strong barrier. Weaving mills are nevertheless subject to price pressure and therefore many manufacturers decide to dispense with the prewinder device. This eliminates the need for its purchase, cleaning and maintenance. While this approach contains a drawback in machine efficiency caused by different incidents, the latter can be completely overcome with the advantages WeftMaster SFB.

Secondly, weaving directly from the bobbin creates yarn tension differences due to the diameter differences of a full bobbin and an almost empty bobbin. This leads to weft breaks, loose weft, weft burst and lost weft. The WeftMaster SFB compensates for the tension differences perfectly and prevents all of these issues and weaving directly from the bobbin goes effortlessly.



JAMES HEAL GOES DIRECT IN GERMANY

James Heal, world leading textile quality control solutions brand, have announced that from 1st February 2022, they are selling and supporting their range of precision textile testing instruments directly in Germany.

The brand will be sold via James Heal's parent company PPT GmbH & Co. KG, based in Mönchengladbach and Freiburg. PPT GmbH & Co. KG are dedicated to customer satisfaction and their well-known and highly respected James Heal brand name, identity and logo will be retained; but most importantly, the support, services and products their customers receive will remain exactly the same. As well as the provision of test instruments the

company will also supply customers with world class test materials and continue to provide a high-quality calibration service. James Heal, who are celebrating their 150th anniversary in 2022, will also immediately bring two new products in their Performance Testing range to the German market.

The AirPro Air Permeability Tester, used to measure the resistance of the flow of air through products including performance apparel, medical textiles, PPE, infant products such as bedding, nonwovens and geotextiles. As well as the innovative HydroView Hydrostatic Head Tester for testing the water resistance of fabrics used in medical, apparel, geotextiles and nonwovens

sectors - from protective gloves, diving dry suits, winter sports apparel, to fishing waders, roofing, tenting and ground sheets. "We are pleased to say the key James Heal contacts from Carl von Gehlen, James Heal's original agent are all transferring across to PPT GmbH & Co. KG and will now be able to take full advantage of the scale and infrastructure the group already has in the territory," said John Page, PPT Group Managing Director, "Germany is recognised as a growing market and a key specifier in the textile industry, so with James Heals' unrivalled pedigree and reputation this was an investment opportunity that could not be missed."



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INTRODUCING THE NEW OMNIPLUS-I TC CONNECT

Following the launch of the new Connect-generation weaving machines in October last year, we are now pleased to introduce the OmniPlus-i TC Connect. This dedicated execution for the weaving of tire cord fabrics has now been upgraded to the latest airjet technology and combined with the Connect-generation features.

With the OmniPlus-i TC Connect, Picanol is setting the new benchmark in tire cord weaving. In the video below, Walter Moens (Picanol Sales Manager) explains all the benefits of the OmniPlus-i TC Connect. Among other things, you will discover in this video that the compensating unit, the drawing-in unit, and

fabrics take-up have been completely redesigned and improved.

Thanks to this upgrade, tire cord weavers will experience a machine featuring superior capabilities based on a design with a strong focus on our 4 main principles: Smart Performance, Sustainability Inside, Driven by Data, and Intuitive Control.

Moreover, this machine is entirely PicConnect enabled. This means you will be able to enjoy all the advantages of our new digital platform PicConnect. In other words, you'll be completely ready for the era of intuitive weaving!

COLLABORATION AGREEMENT BETWEEN THE TWO EXCELLENCES OF MADE IN ITALY IN THE NAME OF SUSTAINABLE INNOVATION

Biella and Colzate (Bergamo) January 27, 2022 – Lanificio F.lli Cerruti, a historical excellence of Made in Italy as well as one of the most prestigious Italian woolen mills, has selected Iteima, leading manufacturer of advanced weaving solutions, as weaving supplier for thirty new weaving machines that will be installed in the Biella manufacturing plant. The new weaving machines are set to increase the production capacity and the overall

manufacturing efficiency, but in the first place they will contribute to further enhancing fabric quality and processes sustainability.

After a strategic study based on a careful market and competitors' assessment, Lanificio Cerruti identified the Iteima rapier weaving machine as the best technology to meet its demanding needs and Iteima as the ideal candidate to forge a partnership grounded on shared values. The Iteima rapier R9500² ensures to

Lanificio Cerruti the highest sustainability levels in three different fields: environmental, as it is designed to reduce energy consumption and waste of raw materials; social, thanks to the ergonomic features that simplify and protect weavers; economic, due to the delicate treatment of the yarns which leads to raw materials saving and quality improvement; furthermore, the remote monitoring allows to minimize interruptions and failures.



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Germany

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With this agreement Lanificio Cerruti and Itema, excellences of Made in Italy respectively in the fashion and in the weaving machinery industries, start a cooperation based on the common orientation towards an increasingly sustainable innovation, meant to generate value while respecting the environment and people. Lanificio F.lli Cerruti joins with great satisfaction a partner of excellence as Itema to undertake a path that will help us to further en-

hance the concept of creative luxury, so inherent in the DNA of our company” - commented Filippo Vadda, President and CEO of Lanificio Cerruti - “This partnership is the evidence of our strong commitment to an increasingly positive impact on the planet and on future generations - since at Lanificio Cerruti sustainability means looking ahead using the best available technology”. “We are proud to work with Lanificio Cerruti. It is not just

a technological partnership, but the beginning of a co-development journey that will allow us to design and implement solutions of great value”, added Ugo Ghilardi, CEO of the Itema Group. “We firmly believe that together we will give prestige to the Made in Italy creativity and innovation, which are admired all over the world.



Itema Rapier R9500-2 for Wool Weaving

Biancalani
TEXTILE MACHINERY

Biancalani Srl

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TURKISH UPHOLSTERY LEADER OPTS FOR THE MONTEX COAT

7. February 2022

A powerhouse in home textiles and furnishing fabrics, Altun Tekstil has just commissioned the first Montex-®Coat coating system in Turkey.

The advanced machine has been installed at the ever-expanding family-owned company's industrial complex in Bursa and is being employed to provide an anti-slip and textured backing to upholstery fabrics with a stable and uniform foam, via knife-over-roller coating.

Founded in 1993, Altun exports its fabrics to more than 60 countries, with its major export markets being Russia and Ukraine, as well as many Middle Eastern and European countries.

Its integrated operations include the production of texturized yarns, weaving and raschel knitting, in addition to dyeing and finishing. With a major focus on tulle curtains and upholstery, the company's fabric range also extends to a wide variety of apparel styles.

"Despite the current market conditions, our investments continue to increase," said company owner Murat Altun. "We have established both a knit and woven fabric dyehouse and an integrated upholstery fabric weaving factory, where in 2022 we will also backward integrate into synthetic filament spinning from chips. In the longer term, we plan to bring all of our operations together in a single facility of 350,000 square metres, to employ approximately



10,000 people. We have new investment targets that aim to further re-



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duce our dependence on overseas suppliers and enable us to do everything within our own operations.”

Altun has installed eight Monforts stenters in various widths at its two plants since 2016 – coincidentally the year Monforts Turkish representative Neotek was founded.

“We have worked with Neotek from the start and both its service and the product quality with Monforts technology are extremely satisfying,”

said Plant Manager Mehmet Mor.

All of the stenters are engineered for specific product lines and the Montex®Coat unit is integrated into the latest of these lines, which has a maximum working width of 2.2 metres and eight chambers.

“With the Montex®Coat unit Altun is able to achieve an even foam application at high speed which results in a very economic process,” said Monforts Sales Manager Thomas

Päffgen.

The fully integrated line benefits from universal control technology and the unique Monforts visualisation system. The Montex®Coat's bordering system has been optimised for enhanced user-friendliness, while the doctor blade adjustment range is the most precise available on the market.

SINGAPORE'S NTX ANNOUNCES PRODUCTION-READY WATERLESS DYEING TECH

Singapore-based textile tech solutions company NTX has announced production-readiness of its waterless colouration technology NTX Cooltrans to address the industry's drive to decarbonise and save water. The technology delivers accurate colourisation of nearly any fabric without heat, up to 90 per cent reduction in water use and 40 per cent reduction in dye use, while retaining colour fastness, hand feel and functional performance.

The news came with confirmation of Adidas, and the affirmation that the results of its first production runs will be landing in the upcoming 2022 Fall and Winter collections, the company said in a media release. Calvin Chong, chairman and co-founder of NTX, stated: “For decades now, our industry has been chasing the elusive goal to reduce the startling amount of water and energy required in the dyeing process of textiles. We're proud to say that with



the launch of NTX Cooltrans, we've finally turned the corner.”

It eliminates the tension and strain put on the materials and is suitable to use with finer, lighter and more delicate materials.

The new NTX Cooltrans technology-ready plants are compliant or exceed the rigorous guidelines restricting substances in chemical for-

mulations which are used in the raw material and product manufacturing processes set forth by mRSL and ZDHC. Plants utilising this technology are quieter, require less energy, and eliminate the need for dangerous chemicals, making the facilities much safer and comfortable, the release added.



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NTX SETS OUT TO TRANSFORM THE TEXTILE INDUSTRY WITH PRODUCTION READY WATERLESS DYEING SOLUTION NTX COOLTRANS ALONG WITH FIRST MAJOR CUSTOMER ADIDAS

14/02/2022

To address the industry's drive to decarbonize and reduce its insatiable thirst for water. NTX™ has announced production-readiness of its revolutionary waterless coloration technology – NTX™ Cooltrans™. The breakthrough is the result of merging innovations in chemistry and machinery to deliver precise and accurate colorization of nearly any fabric material without heat, up to 90% reduction in water use, 40% reduction in dye use, while retaining uncompromising color fastness, hand feel, and functional performance.

- The news came with confirmation of a first major customer Adidas, and the affirmation that the results of its first production runs will be landing in the upcoming 2022 Fall and Winter collections. The disclosure marked a much-needed step forward for the fashion industry that has grown to consume nearly 80 billion cubic meters of water per year in a world with nearly 2.7 billion people experiencing water-scarcity.

- On March 10, 2021, adidas announced "Own the Game" strategy and their commitments to decarbonization. Waterless technologies were identified by adidas as a

key enabler in achieving those ambitious goals and, NTX™ Cooltrans™ has been selected as the first such technology to be integrated at scale within the adidas supply chain.

- Calvin Chong, Chairman and Co-founder of NTX™ stated:

- "FOR DECADES NOW, OUR INDUSTRY HAS BEEN CHASING THE ELUSIVE GOAL TO REDUCE THE STARTLING AMOUNT OF WATER AND ENERGY REQUIRED IN THE DYEING PROCESS OF TEXTILES, WE'RE PROUD TO SAY THAT WITH THE LAUNCH OF NTX™ COOLTRANS™, WE'VE FINALLY TURNED THE CORNER."

- "The really exciting thing is the cost-competitive aspect of implementing NTX™ Cooltrans™ into the value chain for our brand partners. The savings associated with lower energy requirements and water usage allow us to bring this game-changing innovation to ecology conscious consumers around the globe without impacting the manufacturing-costs of the final products."

- NTX™ highlighted that the dramatic improvements that NTX™ Cooltrans™ brings to the industry are not limited to energy and resource usage.

reality.

- The introduction of NTX™ Cooltrans™ completely transforms the way dyeing works and opens up a whole new spectrum of materials for fashion brands to work with. The coloration process with NTX™ Cooltrans™ no longer resembles the millennia-old hot temperature dye baths that require mixing of cloth to achieve the desired output. NTX™ Cooltrans™ eliminates the tension and strain put on the materials and is therefore perfectly suitable to use with finer, lighter and more delicate materials.

- The new dyeing environment also brings a welcome change to on-the-ground personnel involved in the coloration process and the surrounding community. The new NTX™ Cooltrans™ technology ready plants are compliant or exceed the rigorous guidelines restricting substances in chemical formulations which are used in the raw material and product manufacturing processes set forth by mRSL and ZDHC. The difference in facilities is night and day compared to the traditional dyeing plants. Plants utilizing NTX™ Cooltrans™ technology are quieter, require less energy, and eliminate the need for dangerous chemicals, making the facilities



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much safer and comfortable places to work in.

- The entirety of NTX™ production plants exclusively implement NTX™ Cooltrans™ technology. The company further stated that existing NTX™ Cooltrans™ production capacity in China (online since December 2020), and Cambodia (November 2021) will be expanded with the addition of a plant in Indonesia and several Vietnam facilities in 2022. NTX™ signaled its intention

to continue to invest in R&D and production facilities to help meet the Fashion Industry Charter for Climate Action commitment to cut emissions by half in the next decade.

- About NTX™
NTX™ is committed to creating revolutionary textile solutions through continuous research and innovation that are ecologically and economically sustainable. We are driven to achieve a zero-waste benchmark by conserving energy, reducing and

eliminating water use, while never compromising performance or functionality. Our automated and modularizable system solutions allow for local-to-local production, further shortening lead times and cutting down on transportation emissions. Cost is often the unmentionable C word for sustainability, NTX™ believes that sustainability and economics must go hand-in-hand to materialize clean eco-conscious solutions into reality.

ROO HSING & NTX COLLABORATE TO REVOLUTIONIZE DENIM

Roo Hsing and NTX™ leading the revolution in the future of denim

Historically the Denim Industry has faced three core challenges- long lead times, environmental issues, and high production cost. Roo Hsing has long been working towards a solution to these core challenges, in their continued efforts to provide consumers a more environmentally friendly and cost-efficient way to enjoy the purchase of the jeans that they love to live in. As a means to overcome these core, traditional denim, production, obstacles, Roo Hsing, in collaboration with NTX™, is looking to revolutionize denim production utilizing “NTX™ Cooltrans®” technology.

Roo Hsing will greatly shorten the overall production cycle with NTX™ Cooltrans®, which eliminates the need for extensive washing, chemical dyeing and printing processes; which not only increases the yield rate of production line by 98%, but

also drastically reduces water consumption by 93%. Roo Hsing is expecting to cut production time from ~140 days down to only 60 days, effectively potentially reducing lead times 80 days ahead of schedule. Amid this pandemic, this novel technology will enable Roo Hsing to help customers reduce costs of inventory and yield loss, increase uncompromising consistency, quality, and sustainability.

Right: Mr. Alex Chen, Chairman of Roo Hsing Left: Mr. Jeffrey Hsu, Chief Innovation and Marketing Officer of NTX

Collaboration between Roo Hsing and NTX®, opens new opportunities

NTX™ Cooltrans® is a novel and revolutionary waterless textile coloration solution. Through a decade of fundamental research and innovation of machine engineering and dye chemistry, NTX™ Cooltrans® precisely and accurately colorizes

nearly any fabric material without the need for heat, with up to 90% less water, and is uncompromising to both the hand feel and functional performance. Based on this, NTX™ was selected by Fashion for Good to participate in the 7th batch of start-ups which has helped to accelerate them to further develop NTX™ Cooltrans®. Collaboration between Roo Hsing and NTX™ combined the experience and expertise of Roo Hsing and the advanced technology of NTX™ Cooltrans® to create the revolutionary denim that is both ecologically and economically conscientious. Opening up unlimited opportunities for brand houses and consumers.

About Roo Hsing

Since Roo Hsing was established in 1977, the operation sites extended from Taiwan, Cambodia, and Central America to Tanzania, Myanmar, and China. The products are mainly exported to international garment



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brand manufacturers. Roo Hsing has faced high competition and challenges within the textile industry, it has adhered to the concept of excellence in operation, by gradually expanding its scale, continuously introducing new technologies and new equipment, and making great strides forward to create more possibilities for the future. Continued steady growth and breakthrough vision are key to the sustainability of Roo Hsing. Using a high degree of integration of information and technology, we expect that the future will be booming. In response to rapidly changing needs, we seek to become the most innovative and fashionable industry provider with the best host of integration services. About NTX™

Established in 2000, NTX™ specializes in textile digital transfer printing and dyeing technology, and has more than 70 domestic and global inventions and application patents. NTX™ was selected by Fashion for Good to participate in the 7th batch of start-ups which has helped to accelerate them to further develop NTX™ Cooltrans®. Through collaboration with textile manufacturers and brand houses, NTX™ empowers the textile industry towards high-end, intelligent, and eco-friendly products.

Scott Burnett and Thomas Kobrak bolster Baldwin's realigned, customer-centric Americas sales teams
February 17, 2022

Sales professionals to provide customers with single regional point of

contact for all products

ST. LOUIS — Feb. 16, 2022 — Baldwin Technology Company Inc. is pleased to announce that sales professionals Scott Burnett and Thomas Kobrak have joined the organization. Baldwin recently realigned its sales teams to provide a single regional point of contact for printing and packaging industry customers, optimizing service and simplifying access to the company's process-improvement and consumables technologies, as well as access to technical experts.

Scott Burnett is now serving as Baldwin's Regional Sales Manager for the west-central region.

Burnett is now serving as Baldwin's Regional Sales Manager for the west-central region. He is responsible for driving sales growth with print and packaging customers in Iowa, Minnesota, Montana, Nebraska, North Dakota, South Dakota and Wyoming. His experience within the industry and the knowledge he gained from previously being a Baldwin customer at Cedar Graphics in Iowa uniquely position him to understand customers' needs and share the value of Baldwin's products.

Thomas Kobrak is now serving as Baldwin's Regional Sales Manager for the West Coast region.

In addition, Kobrak is now serving as Baldwin's Regional Sales Manager for the West Coast region. He is responsible for driving sales growth with print and packaging customers

in Alaska, Arizona, California, Idaho, Nevada, Oregon, Utah, Washington and western Canada. Most recently, he was a sales representative for global film manufacturer Multi-Plastics.

"I look forward to contributing to the success of the Baldwin team," Kobrak said. "I'm excited to build on my existing relationships within the print and packaging industries, and thrilled by the opportunity to serve new customers throughout my territory. I can't wait to work with them and add value to their businesses by helping them exceed production goals via the Baldwin portfolio of products."

Baldwin offers the broadest range of industry-leading process-improvement technology for the printing and packaging industries—including cleaning, drying and spray automation systems; 100 percent defect-detection; register- and color-control solutions; LED, UV and IR systems; and corona surface treatment and rotary spray solutions. Baldwin's revolutionary Industry 4.0 platform, AMP IoT (Internet of Things), quickly connects the data from machines, accessories, management information systems and workflows to obtain a holistic view of production and overall equipment effectiveness, regardless of make, model or vintage of the assets.

Baldwin's prior sales structure was built around its product lines. With the October 2021 realignment, the sales leaders for the Americas cover smaller regional geographies, and

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regional teams have access to the full Baldwin portfolio of equipment, consumables and service products. In addition to having one regional point of contact, Baldwin customers benefit from an expert U.S.-based service and support team, and after-

market, consumables and upgrade programs. Craig Black leads Baldwin's restructured sales teams as Vice President of Sales, Americas.

Said Black: "Through the organizational changes we made in October, our team is able to spend more

time with our customers, better understand their changing needs and share our solutions, as we help provide value across their entire production process.

BRUECKNER PRESENTS A WIDE RANGE OF PRODUCTS FOR THE NONWOVENS INDUSTRY AT IDEA 2022

For more than 70 years BRÜCKNER has been the world leader in the construction of drying and finishing lines for the textile and nonwovens industry. In the nonwovens sector, the German family-owned company supplies worldwide thermofusion ovens, dryers, coating and heat-setting lines. On the IDEA 2022 trade fair in Miami, USA, BRÜCKNER presents together with its American representation FI-TECH new machine concepts and solutions for different applications in the mentioned fields. Convince yourself in a personal conversation with our experts of the innovative technologies of BRÜCKNER. Visit us on our booth no. 4101 directly at the entrance of the exhibition hall.

The production of nonwovens always requires a bonding process after the nonwovens formation, where the loosely laid fibers are bonded to a resilient fiber composite. For this purpose, depending on the process, different ovens and dryers are used. BRÜCKNER offers the specific know-how and supplies the necessary lines for all applications. The production program is completed by different impregnation and coating units as well as slitting and winding equipment. BRÜCKNER's customers produce geo nonwovens, filter media, hygiene and medical textiles or different fabrics for the automotive and transport industry. For each customer an individual

solution and a corresponding line layout is designed.

Recently BRÜCKNER realized several extraordinary installations in the field of highloft nonwovens and geotextiles. For the production of highloft nonwovens the double-belt thermofusion oven SUPRA-FLOW BX is used. This oven system operates according to the air-through principle and can be perfectly adapted to the product requirements in terms of flow speed, flow direction and temperature on a field-by-field basis. Typical end products include mattresses, bedspreads, upholstery, wiping cloths, automotive components or insulating materials. The

SUPRA-FLOW BX can produce nonwovens up to a thickness of 280 mm and a basis weight of max. 8 kg/m². The available working widths vary between 2400 and 5200 mm at production speeds of up to 100 m/min.

For geotextile projects, the proven POWER-FRAME stenter is usually used, which impresses with its high uniformity in terms of temperature distribution as well as maximum productivity. In addition, the fabric can be stretched in a targeted manner by transporting it in the stenter chain. This has a controlled influence on fabric width, fiber orientation and fabric shrinkage. Working



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Brueckner_SUPRA-FLOW-BX

widths of up to over 7 meters are not uncommon with geotextile finishing systems. Depending on the required width, maximum temperature, stretching forces and other

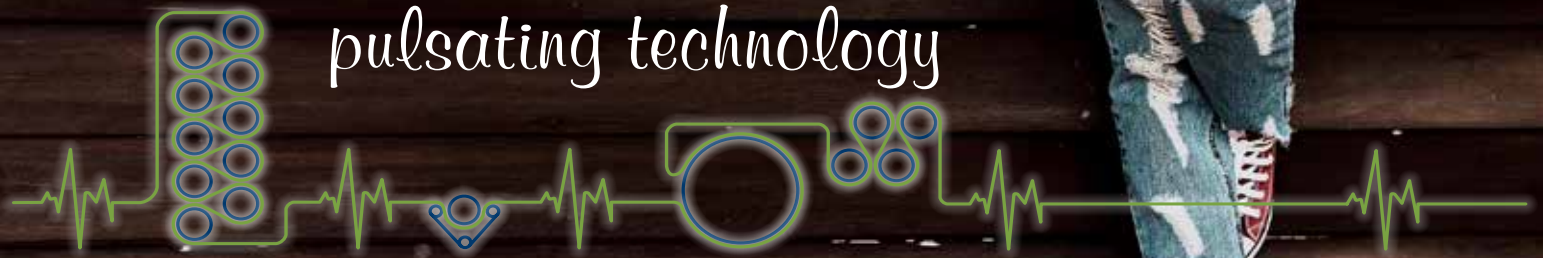
process requirements, the optimum solution is found for each customer. Fabric trials are also possible at any time in BRÜCKNER's Technology Center in Leonberg, Germany. The

expert team of BRÜCKNER and FI-TECH will be pleased to advise you on your very special application.



*Tailor-made solutions
for denim finishing...*

*...with
pulsating technology*



Our focus in denim finishing is minimizing the use of chemicals, energy and process time while retaining impeccable fabric quality.



CRESCENT BAHUMAN IMPLEMENTS PAPERTALE'S TRACING SOLUTION

February 11, 2022

Pakistan's Crescent Bahuman Limited (CBL) is the latest to implement tracing technology at its denim factory. The vertically integrated garment manufacturer recently partnered with PaperTale, a Swedish blockchain-based technology solution that enables what it calls "radical transparency" for brands and factories. Currently, the technology serves fashion brands, and will eventually expand to other consumer goods industries.

PaperTale's app tracks all stages of denim production—from the raw material to the finished pair of jeans—with every step of the process registered and verified. Its impact calculator enables CBL to measure its carbon footprint, as well as its usage of natural resources like water. After downloading the app and scanning a product tag, both CBL's customers and end users will be able to track the lifecycle of each pair of jeans down to the factory workers who made the product. CBL's PaperTale implementation continues the manufacturer's commitment to sustainability, which includes the use of regenerated materials from traceable sources, as well as the recent development of a state-of-the-art, in-house post-consumer waste

(PCW) recycling unit. The company plans to make 80 percent of its fabric with recycled materials by the end of 2023.

"We are really excited to partner

lighted the need for better insight into denim's lifecycle. Last month, Pakistan denim manufacturer Soorty announced a partnership with Swiss technolo-



with PaperTale to implement this unique breakthrough solution," said Zaki Saleemi, CBL vice president, strategy. "Transparency is embedded in the DNA of CBL's business philosophy, and we will be able to provide real-time data to our valued customers with just a single click. Blockchain technology promises the utmost data safety and reliability, thus enabling CBL to have a completely traceable supply chain."

The need for transparency kicked into high gear during the Covid-19 pandemic, when supply chain disruptions high-

lighted the need for better insight into denim's lifecycle. Last month, Pakistan denim manufacturer Soorty announced a partnership with Swiss technology company Haelixa Ltd. to trace and support claims related to the recycled cotton used in its denim products. Around that same time, Cone Denim extended its partnership with tracing solution Oritain across its global platform to verify the origin of its cotton. "We believe that this collaboration will pave the way for a new industry standard, and this will encourage those stakeholders in the supply chain who want to produce ethically and sustainably," said Bilal Bhatti, PaperTale CEO.



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BANGLADESH, MEXICO BOOSTED US JEANS IMPORTS IN 2021

After U.S. denim apparel imports declined nearly 25 percent to a value of \$2.8 billion in 2020 as demand plummeted in the early onset of Covid-19, jeans shipments came roaring back in 2021, increasing 31.36 percent to \$3.68 billion, according to the Commerce Department's Office of Textiles and Apparel (OTEXA).

Key production countries mounted clear comebacks, while other nations' manufacturers saw more modest gains.

Jeans imports from top supplier Bangladesh jumped 42.25 percent to \$798.42 million in 2021 following 2020's 3.98 percent decline, according to OTEXA. While labor and factory safety concerns continued, Bangladesh's import market share rose to 21.69 percent last year from 20 percent in 2020.

No. 2 supplier Mexico roared back with a 39.6 percent hike to \$654.87 million for the year, rebounding

from a 41.54 percent falloff in 2020. factory closures forced importers to



Mexico's market share climbed to 17.79 percent in 2021 from 16.7 percent the prior year.

Imports from Vietnam rose 9.32 percent to \$401.49 million last year after ending 2020 with shipments to the U.S. down 1.08 percent. Market share for the No. 3 supplier fell to 10.94 percent for 2021 from a year-earlier 13.1 percent, as summer

look elsewhere.

Observers have said that Vietnam's manufacturing capacity could be an issue in growing the sector. However, some new developments could change that dynamic.

Saitex has opened a vertical fabric mill 40 miles from Ho Chi Minh City that incorporates spinning, weaving, dyeing and fabric finish-

CHICAGO COLLECTIVE: ONE-STOP SHOP FOR MEN'S DENIM

Housed on a single floor of the behemoth that is Chicago's theMart from Feb. 6-8, the Fall/Winter 22-23 edition of the Chicago Collective painted a rosy picture for the men's

denim market optimistic about new fits and opportunities in adjacent categories. Brand reps described the men's show as their consistent-ly "best event" and others gloated

about getting off the wait list.

German brand Closed made its second appearance at the show. Its European roots are evident in the fashion-forward fits for F/W 22-23,

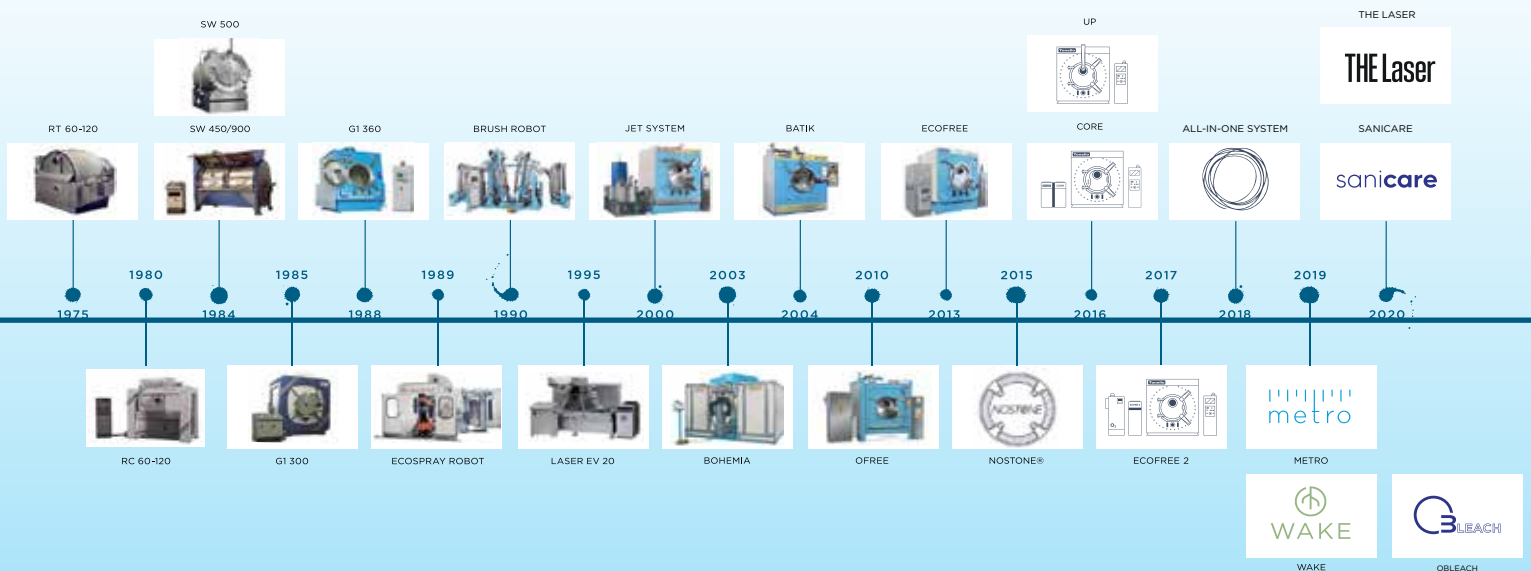


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THANK YOU FOR THESE INSPIRING 40 YEARS TOGETHER

-SINCE 1981-
(AND EVEN BEFORE)



An important anniversary that celebrates continuous evolution, innovation,
but also responsibility and people. And among people, there are **you**:
a fundamental player for our growth and enrichment
in know-how and experience.

Thank you for believing in our capabilities and in our responsible technologies,
and for continuing to choose us. **Since 1981 and beyond!**

including a men's flare jean and two loose fits with fuller legs: the X-Lent and X-Treme. Closed is also revisiting its '90s archive with elevated workwear pieces like dark wash denim chore jackets and contrast stitching creating a utility look on jeans.

Brittany McLaughlin, Closed's East Coast account manager, said 85 percent of the collection is "eco-friendly" and the company is working towards 100 percent in the next four years. Denim, however, has been a major source for savings, thanks in part to Closed partnership with Italy's Candiani Denim. Under its "A Better Blue" program for denim, Closed has slashed water intake by half, reduced chemical usage by 65 percent, and has adopted alternative fibers like Tencel x Refibra and Corvea.

Outerknown's F/W 22-23 collection is an example of how the brand is inching closer toward its goal of being fully circular by 2030. The Southern California label presented its first recycled cashmere hoodies and matching joggers. Recycled cotton, used largely in jeans, remains a challenge, a rep noted, though the brand is making strides in water conservation. Outerknown's jeans are washed in a closed-loop process at Saitex that captures and recycles 98 percent of the water used.

Key fits for the season are tapered and straight, but the brand is seeing growing interest in wider fits. Corduroy shirting, fleece vests and denim jackets with faux shearling collars rounded out the collection. Texture and surreal prints were two

notable themes in Scotch & Soda's collection. The Dutch label applied Joe's Rivet



space-theme graphics to tees; other pieces combined cosmic and nature-inspired prints. Denim headstandouts like railroad-stripe shirting, a felted bomber jacket with nylon pocketing and a quilted jacket with bandana print patchwork balanced the statement pieces.

Pops of color (ochre and tan) and fancy textures like velvet finishes are some of the ways Citizens of Humanity is updating its core fits for fall. The brand is also introducing a looser fit called the Elijah, which has a 16.5-inch leg opening.

For Joe's, the story is all about wider legs, heritage washes and details like knee slits and light distressing. Along with denim overshirts, the brand presented a heavy-duty denim jacket with front snap pockets and a tan corduroy collar. The workwear-inspired piece is reminiscent of the timeless jackets Carhartt-obsessed celebrities have been sporting in recent weeks.

High-saturation washes and Japanese fabrics garment-dyed in earthy colors are trending up for Jacob Cohen. Unique details like one-of-a-kind back patches, high-shine hardware and made-to-order designs underscore denim's shift from being a commodity item that consumers stepped away from during quarantine to a bona fide fashion item.



Jacob Cohen Rivet

Hudson is in a state of transition for fall. Aubrey Heathcott, Hudson's account executive for men's, said the brand has "gone super street-wear," taking the lead from where its department store business is moving to. The result is a collection dense with boxy jean jackets and straight, skinny and relaxed jeans emboldened with bleach, uneven wax coatings, overdyed washes and paint techniques. Camouflage car-

go pants, jeans with zippered side pockets and moto jeans—are among the new collection's notable items.

Hudson Rivet Footwear—or the desire to show it off—is also playing an important role. Hudson is introducing the Reese, a new drop-crotch jean with a 28-inch inseam that breaks just before the shoe. Meanwhile, skinny jeans are being offered in longer inseams so men can wear them intentionally stacked them

above their sneakers.

AG is also seeing interest in jeans that cut off right above the sneaker. The brand's new Pollack jean, a "501-type block" or "anti-fit" fits this aesthetic with a tapered wide-leg and rise that is long but not high. Liverpool is leaning into denim's trend cycle as well with its first sneaker jean this fall. The cropped jean is available in 28-inch and 30-inch inseams.

US APPAREL SALES HIT US \$ 198 BILLION IN 2021

Apparel sales in USA reached US \$ 198 billion during 2021, as per the latest US Census Bureau data. The data reflects 47 per cent Y-o-Y growth in 2021 over 2020 and 1.50 per cent growth over 2019. The last quarter of the year (Q4) remained the most profitable for the US-based apparel retailers as they clocked US \$ 58.40 billion in Octo-



ber-December '21 period as compared with US \$ 47.10 billion and US \$ 58 billion, respectively, in the same periods of 2020 and 2019.

It was predicted that the holiday season in 2021 was going to be a 'sales bonanza' period for the US retailers as

consumers decided to spend on clothing and accessories almost after two years of market sluggishness and the data is evident of the same. As far as the online sale of clothing and accessories is concerned, USA registered a marginal growth of 2 per

cent over 2020 in Q3 after a decline of 1 per cent in Q2 of 2021, while the data for Q4 is yet to come! Overall, 8 per cent growth was reported in 2021 over 2020 for first three quarters.



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SOORTY AND LENZING ELEVATE DENIM LOUNGEWEAR

February 3, 2022

Skeptics of denim's role in work-from-home attire have a new case to review. A collaboration between Soorty and Lenzing demonstrates denim's positioning as a comfortable and on-trend home-office uniform. The leaders in sustainable denim joined forces to launch Reload in Blue, a collection of elevated loungewear styles that make soft denim suitable for the home and beyond. Further underscoring denim's range, the line offers Zoom-appropriate athleisure sets and sleepwear alternatives made of denim.

The collection combines the companies' commitment to limiting their environmental footprint, and includes Lenzing's environmentally responsible and biodegradable fibers as well as the LEED-certified production methods of Soorty's vertically integrated infrastructure.

"Collective action and collaborative effort [are] what we need to drive the change for the better," said Eda Dikmen, Soorty Enterprises marketing and communications manager. "We've designed, dreamed and produced Reload in Blue to be a welcoming collection, and this was reflected to every detail of the collection."

Fabrics are made with Tencel lyocell, a certified fiber produced from sustainably sourced wood using closed

loop and environmentally responsible processes. Lenzing provides physical identification for every Tencel branded fiber with its fiber identification technology, assuring brands and consumers that the raw materials it uses originate from responsible resources.

Designed in New York and produced in Karachi, Pakistan, the collection is now available to view at Soorty's newly opened Space showroom in New York's Flatiron District. The space serves as a meeting location for brands and sustainably minded individuals to connect and accelerate progress towards a sustainable denim sector.

"Soorty knows that only by working together with those with whom we share values—only by really understanding each other's struggles and advantages and helping where needed—can we transform our supply chain into a value chain," Dikmen added.

Soorty's recent partnerships include a July 2021 collaboration with supply chain sustainability analysis platform Green Story for an extensive Life Cycle Analysis (LCA) of two garments with differentiated raw materials and garment processes. It also formed a landmark partnership with Turkish denim mill Isko on a technology licensing agreement that brings the companies together for

the production of fabric and garment collections.

Seizing on the zeitgeist, Reload in Blue reflects the demands of a post-Covid society that values both comfort and functionality without sacrificing style. Whether going into the office or remaining remote, workers are searching for styles that check both boxes. In a September report, retail analytics firm Edited urged retailers to stock their stores with men's workwear items that appeal to a range of employees, including hybrid workers, active commuters and those seeking traditional looks. For retailers, this meant swapping chinos and suit pants with bottoms featuring elasticated details and loungewear-inspired elements such as cinched ankles and drawstring waists.

"Globally, we have been facing such challenging times. Reload in Blue represents the current ethos where we need to recharge our lives with goodness," said Tricia Carey, director of global business development at Lenzing. "The feeling from within is reflected in the choices we made in apparel. The rich emotion of denim connects to the best moments of life which Reload in Blue brings together."



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LEVI STRAUSS & CO. REPORTS 4TH-QUARTER FINANCIAL RESULTS

February 4, 2022

Levi Strauss & Co. announced financial results for the fourth quarter. "We had a strong finish to 2021 and I can confidently say that we are a stronger company than ever before. Today's results reflect robust financial performance, marked by sequential improvement through the year, despite navigating ongoing business disruption from the pandemic. Through it all, we have stayed focused on our future and our momentum continues to accelerate into 2022," said Chip Bergh, president and chief executive officer of Levi Strauss & Co. "We are well positioned for long-term, sustainable growth – our strong brand equity is driving pricing power, we're boldly diversifying our business and continuing to expand our high margin DTC business. As good as this past year has been, I am confident the future will be even better." Financial Highlights for the Fourth-Quarter:

- Reported net revenues of \$1.7 billion up 22% versus Q4 2020 and up 7% versus Q4 2019
- Direct-to-Consumer ("DTC") net revenues up 25% versus Q4 2020 and up 20%

versus Q4 2019

- Company-operated store net revenues up 28% versus Q4 2020 and up 14% versus Q4 2019
- DTC e-commerce net revenues up 22% versus Q4 2020 and 69% versus Q4 2019
- Global Wholesale net revenues up 20% versus Q4 2020 and up 1% versus Q4 2019
- The approximate 3% net revenues benefit from Black Friday and the acquisition of Beyond Yoga was offset by the impact of supply chain constraints, which was approximately \$50 million
- Gross margin was 57.8%; Adjusted gross margin

was 58.1%, up 350 basis points from Q4 2020 and 380 basis points from Q4 2019

- Operating margin was 11.1%; Adjusted EBIT margin expanded to 12.0%, up from 8.2% in Q4 2020 and 9.3% in Q4 2019
- Net income was \$153 million; Adjusted net income was \$170 million, up from \$81 million in Q4 2020 and \$108 million in Q4 2019
- Diluted EPS was \$0.37; Adjusted diluted EPS was \$0.41, up 105% from \$0.20 in Q4 2020 and 58% from \$0.26 in Q4 2019.



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ARTISTIC MILLINERS LENDS A HELPING HAND TO MAN'S BEST FRIEND

February 4, 2022

Artistic Milliners launched a “Paws ‘N’ Play” campaign to assuage the stray dog problem in Karachi. Cressida Studio/ Adobe A dog’s best friend might be Artistic Milliners.

The Pakistan-based denim company’s latest corporate social responsibility (CSR) initiative looks to address the stray dog problem near its facilities in Karachi. In less developed areas of the city, street animals are prone to a number of dangers, including random attacks by humans who fear the dogs carry diseases into the community.

The company launched a “Paws ‘N’ Play” campaign alongside Karachi-based animal rights organization Ayesha Chundrigar Foundation (ACF), a group dedicated to creating a more livable space for stray animals. The program reinforces the message that all natural elements and living beings are interconnected.

“Inclusivity and respect are the right of every individual including the most vulnerable creatures of our society: street animals,” said Faiza Jamil, Artistic Milliners general manager of corporate responsibility and communications. “We believe that inclusivity is meant for all living beings. We must learn to co-exist in the natural harmony as we share our space on this planet

with other animals and flora and fauna.”

The campaign promotes the “trap,

ongoing commitment to sustainability internally and within its community. In 2020, the company



neuter, vaccinate, release” (TNVR) method that’s practiced around the world to manage the stray dog population and mitigate the threat of rabies for animals and people. Artistic Milliners also donated denim jackets and dog collars for the rescued animals, offering both comfort for the dogs and a source of inspiration for those in the apparel space looking to capitalize on the growing dog apparel business. The second phase of the campaign involves awareness sessions conducted by ACF. Artistic Milliners volunteers will join the ACF Animal Rescue team to vaccinate stray dogs in the surrounding communities and open dog houses and feeding stations throughout the city.

The project follows the company’s

launched Milliner Cotton Organic, a program promoting visibility and workers’ rights throughout the entire scope of the cotton supply chain, from picking to spinning. The program especially benefits cotton pickers—often women—who, through the program, are able to access life skills training and better picking resources.

Artistic Milliners further supports women through initiatives like HERessentials, a pilot program from global nonprofit BSR, the organization behind HERproject, a collaborative initiative that strives to empower low-income women working in global supply chains.



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GERMANY'S WILLY BOGNER CELEBRATES 90 YEARS OF MANUFACTURING

01 Feb '22

Germany's Willy Bogner is celebrating its 90th anniversary and is planning numerous jubilee activities in honour of the occasion. Founded in 1932 as a small ski store by Willy Bogner senior, the company became a leader in the fashion and sports industry under the leadership of the next generation, Willy Bogner junior. Bogner is a lifestyle company.

Today, the company is well positioned in the luxury and premium market with its two brands Bogner and FIRE+ICE and shapes relevant trends as a pioneer in Athluxury Sports Fashion worldwide – even beyond the ski slopes. In addition to the Bogner company, Willy Bogner junior is celebrating a significant anniversary this year with his 80th birthday, the company said in a press release.

To mark the anniversary, various activities have been launched. The jubilee ski set, exclusively limited to 90 pieces, is inspired by the iconic racing ski of Willy Bogner senior from the 1930s. Another highlight will be the launch of the limited James Bond Capsule Collection in fall. The cornerstone for the special partnership between Bogner and 007 was laid already over 50 years ago by Willy Bogner junior,



when he produced the world's first action ski scenes for the James Bond film *On Her Majesty's Secret Service* (1969). The joint Capsule Collection honours the long-standing partnership on the occasion of the 60th anniversary of the James Bond films and Bogner's 90th anniversary.

"On behalf of the entire Bogner team, we sincerely congratulate Willy Bogner on his 80th birthday. He can look back on an exciting career and impressive lifetime achievements. He truly shaped the Bogner company and led it to international success.

"Bogner not only has an impressive past but also great potential for the future. We have many plans for the time to come and look forward to continuously surprise and inspire our customers worldwide with our ideas. Our anniversary collections will once again show what we stand for: unique Athluxury Sports Fashion, strong brands and our enthusiasm for what we do. We are starting into our anniversary year full of energy and motivation," Gerrit Schneider, Co-CEO of Bogner said.



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POTTERY BRAND TAKES LILY PULITZER INTO NEW TERRITORY

Jennifer Marks

February 11, 2022

San Francisco – The colorful motifs of resort wear brand Lily Pulitzer are moving into new categories and nameplates at Pottery Barn.

The collaboration that began in 2018 has expanded into Pottery Barn Kids and Pottery Barn Teen, which just launched décor, textiles, sleepwear and water bottles in Lily Pulitzer's signature prints.

The new collections reflect parent company Williams-Sonoma Inc.'s commitment to sustainability. Some pieces are made from GOTS-certified organic cotton and water-resistant polyester made from recycled water bottles. Popular prints from the first co-branded bedding collection, including Slathouse Soiree and Mermaid Cove, have been carried over to backpacks and pajamas. The tropical Isla de Coco and Isle Butterfly prints appear on sheet sets and bedding for the first time.

"We are excited to offer new product categories in exclusive prints that bring a colorful interpretation of the Lilly lifestyle to the kids and teen home space," said Jennifer Kellor, president of Pottery Barn

brighter place," said Michelle Kelly, CEO, Lilly Pulitzer. "The creativity expressed through the teams' shared design vision is extraordinary — our Lilly prints, patterns, and custom colors are brought to life in beauti-



Kids and Pottery Barn Teen. "[T]his collection is a celebration of sunny days, a happy home and a dedication to making the world a

ful new ways through the expanded and innovative offering."

CNR HOME TEXTILES EXHIBITION EMBRACES THE TRENDIEST COLORS

As vital components of the design process, COLORS raises brand recognition by 87% and affects 85% of product purchases. The world's most reliable leader in colors, Pan-

tone Color Institute, has announced the trend color as it does every December and selected two colors! The trend colors of 2022, Ultimate Gray and Illuminating will play a signif-

icant role in interior designing and home textile. While illuminating represents hope and happiness, Ultimate Gray symbolizes resilience.



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The trend colors of portraying hope and resilience will be one of the top concepts at CNR Home Textiles Exhibition. Presenting the most outstanding examples of the trend colors in 2022, the exhibition will take place at the center of global trade.

Creating its own design brands, Turkey exports home textiles products across the world using its unique interpretation and innovative technologies and keeps its title, the shining star of the global



home textiles industry. CNR Home Textiles Exhibition – 26th Istanbul International Home Textile Exhibition, enabling to follow the home textiles and decoration trends close-

ly and come together with designers and manufacturers from all over the world, serves as a bridge between home textiles manufacturers and buyers.

WALMART TESTING CONCEPTS IN ARKANSAS INCUBATOR STORE

February 7, 2022

Bentonville, Ark. – Home figures prominently in high-touch and elevated brand presentations at Walmart's incubator store.

Located at Store 4108 in Springdale, Ark., the merchandising concept is organized around the theme "Time Well Spent" and focuses on making Walmart a destination where customers want to spend their time.

"In today's omnichannel world, customers still want to experience – touch, feel and try – items," said Alvis Washington, VP, marketing – store design, innovation and experi-

ence. "We're using powerful design elements to show off amazing products that wow our customers, and when they see the value, they are proud of their choice and purchase." Key elements of the test presentations include:

Brands in focus: Walmart has created modified store-in-store formats for Gap Home, Queer Eye furniture and décor and Reebok athleisure, among others. National housewares brands are signed prominently in the kitchen department. Baby department displays showcase items needed to create a nursery. The beauty area

highlights new and trending items, including men's grooming tools.

Activated corners: Displays in certain departments will allow consumers to "touch, feel and become part of the space, allowing them to discover all that we have to offer," Washington said. The home department may feature a living room or a bedroom vignette that invites shoppers to handle throw pillows, blankets and other items. They can either purchase on site or order online for delivery.

Digital touchpoints: In addition to elevated displays, the store has stra-



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telegically placed QR codes and digital screens to communicate is range of products and services. In the pet department, shoppers can scan a QR codes to see a wider range of dog bed options, get information on Walmart's pet insurance program or order items for delivery.

The new features are a extension of a store redesign program the company announced last year. Elements of 2021's phase one resets have been rolled out to nearly 1,000 units.

The announcement of the new merchandise tests is posted on Walmart's site and includes a video spotlighting the test features.



WELSPUN'S HOME TEXTILES BUSINESS ON ITS WAY TO \$1 BILLION

February 4, 2022

Mumbai – Welspun India, the home textiles division of Indian conglomerate Welspun Group, hit a number of milestones during its fiscal third quarter.

Revenue increased 19.0% to approximately \$327 million, and the company announced that based on year-to-date trends, its global home textiles business is on its way to hitting \$1 billion in sales. For the first nine months of its fiscal year, sales climbed 35.8% to approximately \$955 million.

However, the macro economic environment held back bottom-line growth. Consolidated net profit for the quarter fell 25% as expens-

es shot up 24%. “The operating environment continued to remain trying with an unparalleled, highest-ever commodity price increase and global supply chain disruptions. The strong growth and improvement in sentiments that we have been witnessing during the year also got a bit impacted by the arrival of the third Covid wave, the effect of which has been mild, though, so far. We are, however, very focused to achieve sustainable growth in all our markets,” said Dipali Goenka, CEO and joint managing director of Welspun India Ltd.

As outlined in its presentation to investors as well as in a video posted to its LinkedIn page, Welspun

India announced the following achievements during the quarter:

- S. e-commerce growth up 157.0%;
- Licensed brand growth up 45.0% for Q3 and 66.0% year-to-date;
- The company's domestic retail business generated record sales.

Demand remains strong. For the nine-month period, manufacturing capacities have been running at a high rate:

- Bath linen production was at 90% capacity, up from 79% in the previous nine-month period.
- Bed Linen was 100%, up from 80%.
- Rugs and carpets was at

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83%, up from 61%.

• The Advanced Textile division's production rates for the period were 82% for Spunlace, 55% for needle punch and 33% for wet wipes. Welspun India is also expanding

its manufacturing footprint, with capacity increases in towels, bedding, rugs and carpets in the coming months.

B.K. Goenka, chairman of Welspun Group, said "Our markets like U.S. and UK have been show-

ing strong consumer spending. In India, economy is coming out of pandemic led slowdown with strong demand supported by monetary policies and fiscal stimulus from government."

THE WORLD MATTRESS INDUSTRY MEETS IN ISTANBUL: IBIA EXPO 2022

Turkey's and the world's leading mattress supply industry and technology companies will come together at the IBIA EXPO Fair, which is planned to be held at the Istanbul Expo Center on 6-9 October 2022.

IBIA EXPO 2022, which will host over 200 leading companies and manufacturers, plans to open its doors to industry professionals with thousands of visitors from target buyer countries.

Bringing together thousands of innova-

tive products and technologies that make up the components of the mattress industry under the same roof, IBIA EXPO aims to host nearly 20 thousand domestic and foreign buyers from 14 countries at the Istanbul and to create a business

network between buyers and manufacturers.

IBIA EXPO, which has the distinction of being the only fair organized on mattress technologies in Turkey; In addition to bringing together mattress supply indus-

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try, machinery and hardware manufacturers, it also has the feature of being an export platform that exhibits the latest technologies and innovative products.

Innovation

With all kinds of innovative changes and transformations, the mattress industry, in its most modern form, is gaining even greater speed and momentum with the latest technologies in mattress components. The industry will be following all these newly developed products and more at IBIA EXPO.

Technology

With the increase in the need for mass production of mattresses thanks to the

supply-demand situation and technology in the mattress industry, the needs of potential buyers are fully met with these high-tech machines, thanks to the fact that IBIA EXPO brings together all kinds of high quality and machine manufacturers. Design

While a quilting machine with an increased capacity with a new design can contribute to faster production and your mattress to be ventilated faster with its newly designed ventilation capsule, a mattress with an attractive design may be in high demand. At IBIA EXPO, there are new design products in the field of machinery, equipment, or complemen-

tary pillows and sleep products.

Who Can Participate?

Mattress production machines; mattress edge closing machines, single head, double head and multi-needle quilting machines, mattress packaging machines, automatic roll pack machines, side border machines, sewing machines, spring pulling machines, fiber preparation and mixing machines, nonwoven – fiber preparation machines, fiber back recovery machines, pillow filling machines, quilt machines, automatic glue line, pillow press machines, automatic mattress cover zipper sewing machines.

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Bedding fabrics; Woven, knitted bedding fabrics, side border fabrics, plinth fabric, upholstery fabrics, headboard fabrics and artificial leathers. Spring and spring production machines; Boney springs, bundle spring, micro springs, wire drawing machines, automatic bundle spring coil machines, fully automatic bundle spring typesetting machines, bundle spring typesetting machines, bonnel spring coil and typesetting machines, spring winding machines. Sponges; sponge, visco, latex and gel Technologies Glue and Packaging materials: solvent-based, water-based glues, hotmelt guns. Bed accessories; bed wicks, handles, plinth feet, air capsules, fabric and leather mattress labels, metal accessories, zippers Felt-fiber-Nanwoven; felts, natural felts, synthetic and natural fibers, nonwoven fabrics Production materials; quilting yarn, bed cover fabric yarn, shock absorbers, mattress covers, movable mechanisms, plinth frames Complementary products; pillows, duvets, home textile products, mattresses, bed bases, headboards and bedsteads

IBIA EXPO 2022 Istanbul, where private sector experts, bedding industry purchasing authorities, mattress manufacturers, pillow manufacturers, quilt manufac-



turers, sleep products manufacturers, component exporters, prive label sleep product manufacturers, bedding material manufacturers, home textile manufacturers, material companies, distributors, agencies, companies that want to get distributorship, professional import and

of commerce and sector institutions can come as visitors, will open its doors to visitors between 10:00-19:00 on 6-7-8-9 October. It is expected that many participants from the Middle East, Europe, USA, China, Russia, Africa, the Balkans and Turkic Republics will take part in the fair.



export companies, designers, chambers



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ARCHROMA LAUNCHES EARTH SOFT SYSTEM BASED ON SILIGEN EH1, A NEW VEGAN TEXTILE SOFTENER WITH ONE-THIRD PLANT-BASED ACTIVE CONTENT

Archroma, a global leader in specialty chemicals towards sustainable solutions, today announced the launch of **EARTH SOFT**, a new softening system for textile and fashion applications, based on Archroma's latest innovation, a vegan silicone softener, **Siligen® EH1**, with 35% plant-based active content.

01/02/2022

Siligen® EH1 is the latest addition in the plant-based innovations developed by Archroma in recent years, such as EarthColors® dyes and Appretan® NTR binders, as alternatives offered to manufacturers and brands looking to reduce the use of fossil fuel based ingredients without compromising performance.

The range has been developed in line with the principles of "The Archroma Way to a sustainable world: safe, efficient, enhanced, it's our nature". More than 35% of the Siligen® EH1 softener's active content is based on plant-based, renewable raw materials. In addition, the product features ultralow cyclic siloxanes (D4, D5, D6) which are classified by the European Chemicals Agency as "Substances of Very High Concern" due to their very persistent and bioaccumulative properties.

The new softener, and the EARTH SOFT system which also includes a Hydroperm® wicking agent to boost hydrophilic properties on synthetic and blended fibers, can be applied on all natural and synthetic textile



fibers.

Siligen® EH1 is suitable for both woven and knitted articles. It can be applied by padding process, as well as by exhaust process as it shows a very good shear stability and a low foaming profile. It can be used on white articles and those treated with optical brighteners, as it doesn't cause thermomigration nor phenolic yellowing.

Paul Cowell, Head of Competence

Centers for Brand & Performance Textile Specialties at Archroma, comments: "The new EARTH SOFT system based on Siligen® EH1 softener adds to our growing portfolio of innovations based on natural and renewable plant-based resources. This new breakthrough innovation by Archroma helps us and our partners in the textile and fashion industry to minimize our dependence on petroleum fossil fuel products."

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SUPER STONEWASH FOR JEANS WEAR WITH PERIZYM SC 500

With super stonewash enzymes, such as our cellulase preparation PERIZYM SC 500, you can create very good stonewash effects and bright washings on indigo-dyed jeans wear with only one wash cycle. The addition of our special washing agent PERLAVIN JAB NEW helps to avoid backstaining as it removes detached indigo dyestuff as well as fibers from the denim garments.

Enzymatic super stone wash for denim garments with PERIZYM SC 500.

Super Stonewash of Denim Garments without Pumice Stones

Super stonewashing is a washing procedure for indigo-dyed jeans wear. Especially along seams and edges these so-called super-stonewashed garments become distinctly brighter. By adding special stonewash enzymes, strong washing effects can be achieved even without using pumice stones in only one wash cycle. Stonewashing without pumice stones offers clear advantages, as the stones do not need to be removed from the garments afterwards with considerable manual effort. Furthermore, the abrasion products of the stones could cause problems in the production, in the drum washing machines as well



as in the sewage system and the wastewater treatment.

Enzymatic Super Stonewash with PERIZYM SC 500 and PERLAVIN JAB NEW

For the super stonewash on drum washing machines we offer our neutral enzyme preparation PERIZYM SC 500, which was developed particularly for the application without pumice stones. In combination with our special detergent PERLAVIN JAB NEW you can achieve very high abrasion and thus very strong brightening effects with reduced redeposition of removed indigo dyestuff and fibers (low backstaining) at the same time. In addition, super-stonewashed garments have a pleasantly soft handle even with-

out additional softeners.

PERIZYM SC 500 is suitable for the application at relatively low temperatures. The best abrasion effects can be achieved at temperatures from 35 to 50 °C. Furthermore, the cellulase preparation contains an integrated buffer system. Backstaining can be moreover reduced by the addition of PERLAVIN JAB NEW, which has outstanding dispersing capacities. This way, backstaining through detached indigo dyestuff or colored fiber fragments on the white weft yarn can be almost completely avoided. Particles, removed by the cellulase enzymes, are dispersed in the liquor so they can be optimally removed from the fabrics in the final rinsing process.

HTT

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Mode of Action of Cellulase Enzymes

Enzymes are so-called biocatalysts. Cellulases are special enzyme proteins, which are able to split the 1,4-glycosidic bonds of cellulose molecules. In textile finishing cellulase enzymes are applied for example in biopolishing but also for the washing of denim garments. Through the application of cellulases in garment washing protruding fibers as well as indigo dyes are removed from the surface of the denim fabrics. This way, fabrics with ring-dyed warp yarns get a shabby, worn, washed look. Before cellulase enzymes were used in textile finishing, those so-called stonewash effects were obtained by purely mechanical processes like stonewashing with pumice stones.

Our Recipe Recommendation for PERIZYM SC 500 and PERLAVIN JAB NEW

For the enzymatic stonewashing of indigo-dyed denim wear we recommend the application of PERIZYM SC 500 and PERLAVIN JAB NEW according to the following recipe:

0.5 - 2.0	g/l	PERIZYM SC 500
-----------	-----	----------------

1.0 - 2.0	g/l	PERLAVIN
-----------	-----	----------

The optimal application quantity of PERIZYM SC 500 depends on:

- desired stonewash look
- weight and type of denim being processed
- degree of desizing
- liquor ratio
- duration of treatment
- machine type

The pH value for a treatment with

this neutral cellulase should be adjusted between 6.5 and 7.5. PERIZYM SC 500 already contains an integrated buffer system, which automatically adjusts the required pH value. Depending on your process water, you might not need to use an additional buffer. Depending on the desired effect, the treatment takes approximately 20 to 60 minutes at 35 to 50 °C at a liquor ratio of 3:1 to 10:1. The use of pumice stones is not necessary. In order to avoid a possible enzymatic damage of the cotton fabric the treatment should be followed by an enzyme stop. This can be done by a five-minute treatment at 85 °C or by the addition of 1 g/l PERISTAL WWC. PERISTAL WWC is a special agent for the garment finishing. Finally, the garments are rinsed and dried on the tumbler.

PT. ASIA PACIFIC FIBERS TBK IS THE FIRST MANUFACTURER IN INDONESIA TO RECEIVE THE

PT.

Asia Pacific Fibers Tbk. are a leading integrated global polyester player. They manufacture and market polyester chips, staple fibres, filament yarns and fleece fabrics along with captive PTA (Purified Terephthalic Acid). According to their expert on polyester production, they are able to cater to the ever-changing demands in apparel, furnishing and industrial textiles. They have evolved into Indonesia's most progressive, flexible and fully integrated polyester producer, ranking

among some of the best in the world. With their outstanding profile, PT Asia Pacific Fibers Tbk. has become the first manufacturer in Indonesia to have achieved UV STANDARD 801 certification for its polyester woven fabric for awnings. This achievement provides the high confidence to compete in the global market for the best awnings with beneficial advantage of UV protection. The UV STANDARD 801 is a certification system for clothing and shading textiles. It provides reliable sun protection for consumers and has

the world's strictest testing standard for sun-protective garments and textiles. The testing procedure determines the UPF (Ultraviolet Protection Factor) of textiles. The UV STANDARD 801 also ensures that textiles are tested in both a new and used condition to represent realistic conditions of use (stretched, wet, mechanical wear and tear and laundering).

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SWISS MANUFACTURER ZÜND, DUTCH FIRM AIRBORNE EXPAND COLLABORATION

27 Jan '22

Swiss cutting system manufacturer Zünd Systemtechnik and Dutch composite automation company Airborne have announced the expansion of their collaboration. As a result of this new distribution agreement, the customers will be able to benefit from the state-of-the-art digital production solutions for automated processing of composite materials.

Zünd and Airborne will jointly promote these production solutions through their sales and servicing networks. Both companies are technology leaders offering solutions for composites manufacturing and processing – Zünd develops and manufactures digital flatbed cutting systems capable of processing reinforced fiber materials such as CFRP or GRP. Airborne, based in Den Haag in the Netherlands, provides fully integrated automation solutions for efficient composites processing.

The goal of this partnership is to make it easier than ever for



customers to access state-of-the-art digital cutting and automation solutions. In that endeavour, the competencies of both companies complement each other perfectly. Their combined expertise manifests itself especially in the areas of fully automated cutting, performing, offloading, and sorting, Zünd said in a press release.

Airborne's automated kitting solutions reduce operating costs by maximising material yield through optimised nesting. At the same time, they resolve the challenges inherent in sorting and grouping

cut parts from complex nested layouts into laminate-ready kits with minimal operator intervention. Airborne offers a portfolio of solutions tailored to meet the individual needs of customers from affordable entry-level semi-automated products through to fully integrated and high productivity systems. All systems are "plug and play" and require no additional special programming. Airborne's software generates the required robotics code directly from information derived from the nesting data and permits static or dynamic nesting and a sorting solution



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that adapts “on the fly”.

Zünd has been designing, manufacturing, and marketing digital cutting systems for more than 30 years. Zünd high-performance modular cutters are now in use all over the world. The Swiss family-owned company now in its second generation has established a global network of Zünd sales and service organisations under the leadership of Oliver Zünd. “This is a situation where two strong partners complement

each other in much the same way as in strong partnerships we have established in other industries. It is a continuation of a long-standing company strategy. Airborne has excellent know-how in developing and manufacturing automated solutions for processing composites. Together we can offer our customers state-of-the-art technology and provide a technological answer to the growing demand for high-performance, innovative produc-

tion systems in the composites market,” the release added.

“Our partnership with Zünd brings a great deal of added value to our customers. Zünd shares our goal of creating greater cutting-room productivity. The Zünd cutter is the key to converting materials with the greatest possible efficiency and maximum material usage,” Joe Summers, commercial director for Airborne, said.

THE COLORS OF HYDROGEN

Stephan Laiminger, Chief Technologist at INNIO Jenbacher, discusses why hydrogen – both blue and green in color – will play a significant role in the future of power generation.

that adapts “on the fly”.

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Stephan Laiminger, Chief Technologist at INNIO Jenbacher: “Also for us, blue hydrogen can accelerate the build-up of a green hydrogen infrastructure. We cannot simply switch from one day to the other. We need a ramp-up phase to make



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the infrastructure hydrogen ready.” The other process is to remove carbon from fossil fuels and store the carbon, so it’s not released into the atmosphere. “In this process, we discuss the ‘colors’ of hydrogen,” says Laiminger. “With ‘blue’ hydrogen, we remove the carbon out of the natural gas and use the remaining hydrogen to operate the engine. If executed properly, CO₂ can be stored and is not released into the atmosphere.”

Those two methods are a way forward to counter global warming. For the engine, it doesn’t matter if the hydrogen is ‘blue’ or ‘green’ – it’s simply the energy carrier. But

for the global economy, we must find the most cost-effective solution, says Laiminger. Because, if a process is prohibitively costly, it will not be embraced.

Ready for a change With INNIO’s green technology, customers can reduce their carbon footprint and reach their climate goals, he says. “Our engines are highly energy efficient, and we are setting up our products to be ready for a change. If hydrogen is available in large quantities, we will have a product to convert it into heat and power in the most economical way. The primary challenge is that there is not yet enough hydrogen provision to fully move the energy generation onto it. It’s too expensive at this point.”

The main advantage offered by green hydrogen is that it does not release CO₂ into the atmosphere. It is an excellent energy storage op-



tion to transfer surplus renewable energy from summer in the cold and dark winter season. Energy must be stored in large quantities for many weeks, and batteries simply are not large enough. Energy needs to be stored in a chemical form, such as hydrogen. To increase power density for transport over long distances, hydrogen can be carried in the form of ammonia or methanol. “There are scenarios of renewable energy production in large quantities in Saudi Arabia, converted into green hydrogen and ammonia and shipped to Europe,” says Laiminger. “That is a potential way of securing Europe’s green energy supply.”

The other process is to remove carbon from fossil fuels and store the carbon, so it’s not released into the atmosphere. “In this process, we discuss the ‘colors’ of hydrogen,” says Laiminger. “With ‘blue’ hydrogen, we remove the carbon out of

the natural gas and use the remaining hydrogen to operate the engine. If executed properly, CO₂ can be stored and is not released into the atmosphere.”

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Ready for a change

With INNIO’s green technology, customers can reduce their carbon footprint and reach their climate goals, he says. “Our engines are highly energy efficient, and we are setting up our products to be ready for a change. If hydrogen is available in large quantities, we will have a product to convert it into heat and



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power in the most economical way. The primary challenge is that there is not yet enough hydrogen provision to fully move the energy generation onto it. It's too expensive at this point."

The main advantage offered by green hydrogen is that it does not release CO₂ into the atmosphere. It is an excellent energy storage op-

tion to transfer surplus renewable energy from summer in the cold and dark winter season. Energy must be stored in large quantities for many weeks, and batteries simply are not large enough. Energy needs to be stored in a chemical form, such as hydrogen. To increase power density for transport over long distances, hydrogen can be carried in

the form of ammonia or methanol. "There are scenarios of renewable energy production in large quantities in Saudi Arabia, converted into green hydrogen and ammonia and shipped to Europe," says Laiminger. "That is a potential way of securing Europe's green energy supply."

UTILIZING BLUE HYDROGEN NOW UNTIL THE GREEN HYDROGEN INFRASTRUCTURE CATCHES UP

To produce green hydrogen requires a lot of electricity. So, there remains a chicken and egg problem in terms of when to make the transition – because the world is switching increasingly toward an electric economy with a growing electricity demand for electric vehicles and electric heating via heat pumps. The trouble at this point is that not enough surplus green electricity is available to produce green hydrogen. In the longer term, however, green hydrogen will be the right direction.

Now, blue hydrogen can help to transfer parts of the fossil fuel industry into the hydrogen industry while also reducing carbon emissions because the carbon is separated upfront. "Blue hydrogen production centralizes the process and uses the hydrogen in the grid to decarbonize the industry. It is also available for other sectors, such as steel production," Laiminger says.

"Also for us, blue hydrogen can accelerate the build-up of a green hydrogen infrastructure. We cannot simply switch from one day to the other. We need a ramp-up phase to make the infrastructure hydrogen ready."

So, how long will it take for this transition period of using blue hydrogen before the green infrastructure is ready? According to Laiminger, governments plan to massively ramp up renewable energy production. "On a European level, the initiatives are targeting 2030 for a massive extension of renewable energy and electrolyser availability. Also, to produce blue hydrogen, the infrastructure needs to be ramped up in the forthcoming years," he says. "There is a push from governments to switch to non-fossil fuels. As production sites get larger, costs will go down and, finally, there will be a business case for those technologies. We need to ramp it up to a large

scale to drive costs down."

Laiminger feels that, fortunately, there is generally an openness in the industry to this change. "We are getting lots of questions from our customers. Specifically, 'Can our installed power plant be converted?' Or 'How future-proof or sustainable is our technology?' Yes, we are set up for the future. What needs to change, though, is the cost of hydrogen. It has to make economical sense," he says.

What is clear, says Laiminger, is that the industry needs to go in this direction now, to counter global warming. "There isn't a 'one size fits all' solution for how to stop climate change. It's not just renewable energy. We also need to store energy over a long period of time – and hydrogen will be a key part of the solution. We have to start now. There is no other option."



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INNIO SIGNS AGREEMENT WITH CONCORD GROUP OF COMPANIES TO DEVELOP FOUR BIOGAS POWER PLANTS, SUPPORTING MALAYSIAN DECARBONIZATION EFFORTS.

Agreement will encompass the development of four power plants operating with two high efficiency INNIO Jenbacher biogas engines each

- Eight Jenbacher engines will operate on biogas, providing a total generating capacity of more than 8 megawatts (MW)
- Eight INNIO Jenbacher engines will run on 100% palm oil wastes while capturing methane

Dubai, United Arab Emirates — February 22, 2022 — INNIO announced today that it has signed a memorandum of understanding (MOU) with Concord Renewable Energy SDN BHD (Concord Group) to partner in building four power plants across Malaysia fueled by palm oil wastes. The MOU signing took place at Dubai Expo 2020, in a festivity ceremony organized and held by the Malaysian Ministry of Energy and Natural Resources (KeTSA) for Sustainable Energy and Natural Resources week at Malaysia Pavilion, which took place January 30 – February 5, 2022. The project emphasizes Malaysia's efforts to achieve its COP26

commitments in moving away from fossil fuels and increasing renewable energy projects. The power plants, built in various parts of Malaysia, will deliver sustainable power to the grid while capturing methane. Each plant is expected to operate two INNIO Jenbacher high-efficiency biogas engines, collectively delivering more than 8 MW of power to the grid.

The Jenbacher Type 4 engines, for which INNIO will also supply long-term servicing, are known for their dependability, efficiency and fuel & solution flexibility. This makes them an excellent technology to advance Malaysia's plans to reduce its reliance on fossil fuels. As part of its COP26 commitment, Malaysia recently raised its National Renewable Energy Capacity target from a 20% increase to a 31% increase of renewables in the national energy mix by 2025.

INNIO has more than 500 Jenbacher engines currently operating on biogas and deploying about 1 GW in the ASEAN region. Our Jenbacher Type 4 biogas engine fleet delivers reliable

and fuel-efficient heat and power, where the additional surplus energy is fed into the power grid as a renewable, dispatchable power source. We are pleased to partner with the Concord Group to provide technology that helps Malaysia meet its climate goals. Carsten Dommermuth, Vice President and General Manager APAC at INNIO Jenbacher While supplying clean energy throughout Malaysia, Concord Group and INNIO will be further advancing the country's climate change mitigation objectives through the sourcing of the fuel. Methane gas emitted by existing palm oil mills will be reappropriated to produce power.

Having successfully worked with INNIO in the past, we can think of no better technology to support our clean energy goals. We look forward to continuing to work with INNIO's advanced Jenbacher technology to help us meet growing energy demand while reducing emissions.

Datuk Khairuddin bin Tan Sri Mohd Hussin, Concord Renewable Energy Sdn Bhd CEO



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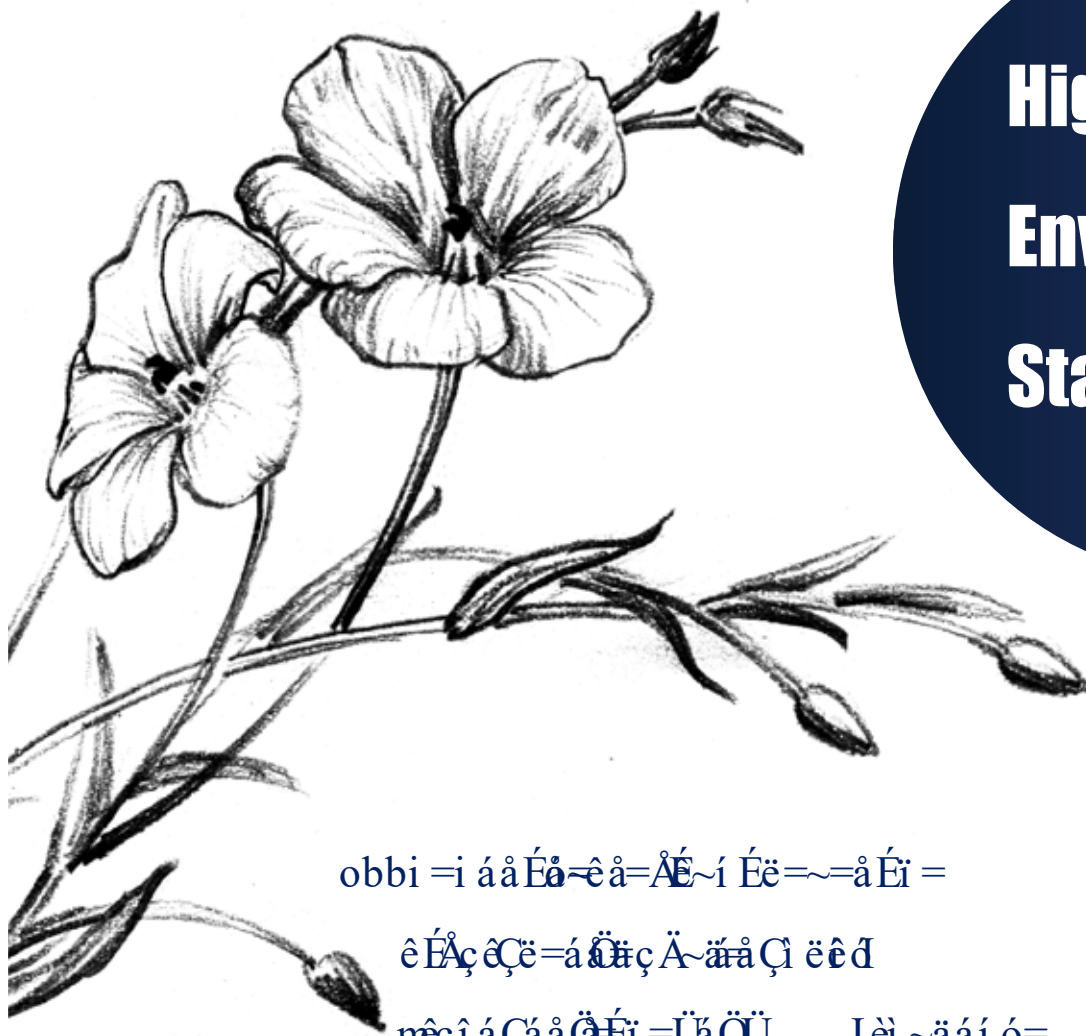
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