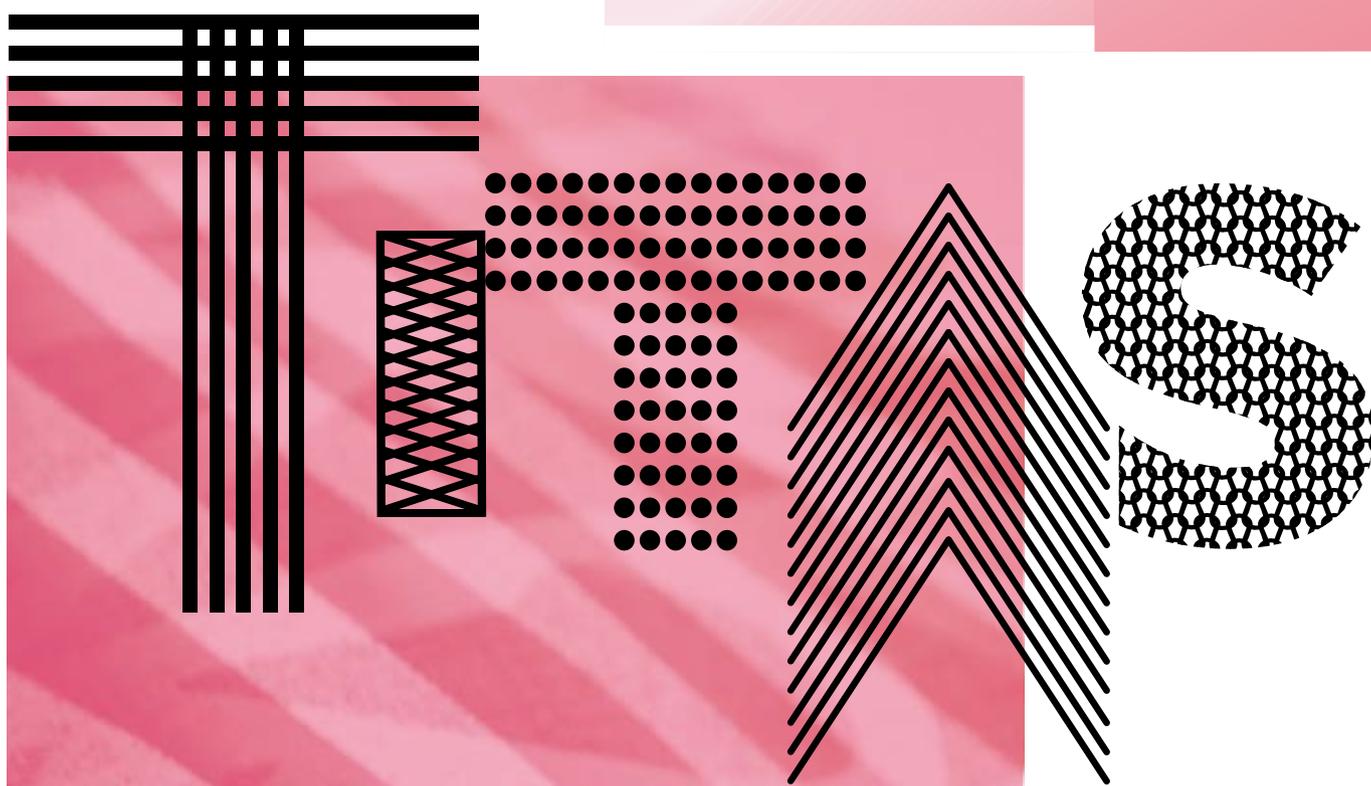


**TAIPEI INNOVATIVE
TEXTILE APPLICATION SHOW
2020 台北紡織展**



New Business Opportunities in Post COVID-19 Era

Focusing on Innovative and Sustainable Textiles

Five themes of TITAS: Functional Applications, Sustainability, Personal Protective Equipment, Smart Textiles and Intelligent Manufacturing



Organized by the Taiwan Textile Federation (TTF) and under the auspices of the Bureau of Foreign Trade, Ministry of Economic Affairs, the 24th Taipei Innovative Textile Application Show (TITAS) was held at the Nangang Exhibition Center Hall 1 on October 13-15 and was closed with success. Despite COVID-19, 356 exhibitors from 11 countries and regions participated this year, including Taiwan, the United States, Sweden, Germany, Switzerland, Japan, Korea, Vietnam, Hong Kong, Singapore and Mainland China in total of 803 booths. Statistics from TTF indicated that during the 3-day event, about 32,000

visitors attended the exhibition and the business potential is estimated to be 30 million US dollars.

Key themes at the event were Functional Applications, Sustainability, Personal Protective Equipment, Smart Textiles, and Intelligent Manufacturing. TITAS 2020 was also a series of events for the "2020 Taipei Fashion Week SS21" which was organized with the concept of "RE: CONNEXT" by the Ministry of Culture and was envisioning the return to our normal daily routines as the COVID-19 pandemic subsides.

The Government and Textile Industry Work Together to Create New Business Opportunities

To show the government's full support, Vice President Lai Ching-te attended the opening ceremony. He also visited the booths of leading Taiwanese manufacturers including the Formosa Plastic Group, Far Eastern New Century, Eclat Enterprise, New Wide Industrial, Yi Shin Textile Industrial, Tex-Ray Industrial and more in the company of Wen Yuan Wong, Chairman of Taiwan Textile Federation, Douglas T. Hsu, Honorary Chairman of TTF, Lin Chuan Neng, Vice Minister of Ministry of Economic Affairs, and Lee Lien-Chuan, Vice Minister of Ministry of Culture.

Chairman Wen Yuan Wong said that it is not easy to maintain a considerable scale of exhibitions while majority of the physical tradeshows have been cancelled throughout the pandemic. Taiwan textile industry has gradually transformed into a high-tech industry. Along with innovation in the field of functional textiles, Taiwan has become the first choice for international brands to source functional fabrics. With the global emphasis on climate warming and Industry 4.0, the development of environmentally friendly textiles, automated textile machinery and sewing equipment are all important exhibits this year.

Vice President Lai said that TITAS is the only international textile exhibition in Taiwan and is the platform for TTF to assist the industry to promote innovative textiles. He proposed the idea of "all digital textile value chain", "fashion textile ecosystem" and "sustainable textile supply center", together with the concept of "High-end R&D and manufacturing center" proposed by President Tsai Ing-wen, hoping that Taiwan textile industry can go further and create an emerging industry of "epidemic prevention materials" to provide textiles with safety, fashion and function.

TITAS featured five core themes

Functional Applications

In the post-pandemic era, consumers demand apparel products with multifunction that can provide additional protection. Taiwan textile industry is capable to immerse textile products with safety, function and fashion aesthetics, and has been highly valued by major global brands.

Formosa Taffeta and Schoeller Switzerland, the world's top protective clothing and outdoor apparel manufacturer, cooperate to develop the BMW racing suit made with high-tenacity Nylon fibers and Schoeller's special finishing technology.

New Wide finds the latest consumer behaviors and product trends from Instagram. "Home vacation" has become a new direction in the textile industry. New Wide's Hand feel+ series uses blended materials and can greatly improve the handfeel after special treatment. Together with moisture wicking, 37.5™ humid retention technology, breathable construction design, cooling yarn, wool yarn, and UMORFIL® sustainable skin-

friendly series to provide consumers with the most comfortable clothes.

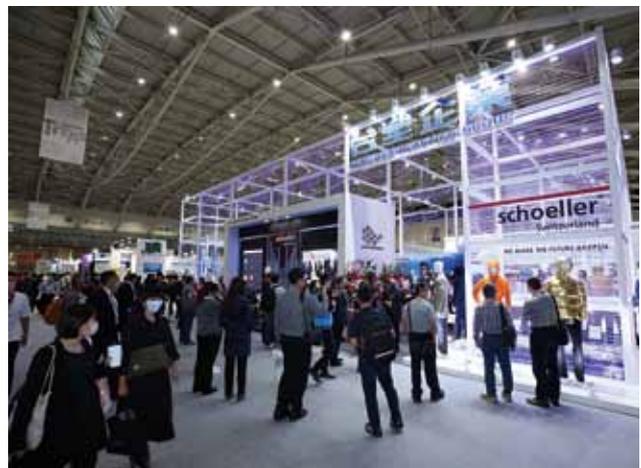
Tex-Ray exhibited textiles that combine photocatalytic fibers and cool-feeling fibers, which achieve the effects of sterilization, antibacterial, decomposing odor molecules, cooling sensation, respectively, with long-lasting properties and are suitable for sports use during epidemics. Meanwhile, the company develops HD ECOPRINT high-resolution sustainable printing technology, which combines fashion, function and environmental protection in one.

Taiwan Paiho showed their new developed shoe uppers which the whole pair is made of shoelaces. The shoelaces are woven together to generate support and increase strength of the shoe upper. In addition, Taiwan Paiho developed a "3D Knit Tape" with a unique engineered flat knit textile structure, and it can be laced with drawcords for footwear and garment providing functions of ventilation, heat dissipation and tightening adjustment.

Sustainability

Reducing greenhouse gas emissions and moving towards a low-carbon society is an inevitable trend for textile industry. Sustainable textile is one of the strengths of Taiwan textile industry. Through adopting recycling and reusing plastics, saving energy consumption, reducing waste water and carbon dioxide emissions, and taking other measures, Taiwan textile suppliers implement their corporate society responsibility and keep going green.

In TITAS 2020, Nan Ya Plastics showcased ocean plastic recycled yarns and recycled yarns made by overstocked greige and fabrics. The new "SAYA" is recycled polyester solution dyed yarns made from recycled fabric cutting scrap. It can also be made into off-white yarns after the bleaching process; "GREENONE" biodegradable polyester fiber contains special additives, which enhance the biodegradation rate reach 40% in 15 months. It can decompose in 3 years and achieve multiple environmental protections when combining technologies such as recycling PET bottles, biomass or heavy metal-free.



The Magic BES produced by Yi Shin is a new form of biodegradable material. With the biodegradable enhancement solution, it allows microorganisms to adhere to the surface of the fiber to perform interactions between chemical fiber waste or recycled products in anaerobic and aerobic environment. With its superior biodegradability, it can shorten the decomposition rate which used to take 450 years to 7-10 years and can greatly reduce the subsequent pollution of chemical fiber products.

The protective clothing produced by Chia Her is not only washable, but also sustainable as it uses biodegradable polyester, coating, membrane, etc. to develop reusable medical protection products. Chia Her keeps the earth green with their mechanical recycled wool which is recycled from waste wool and reused and make into functional fabrics.

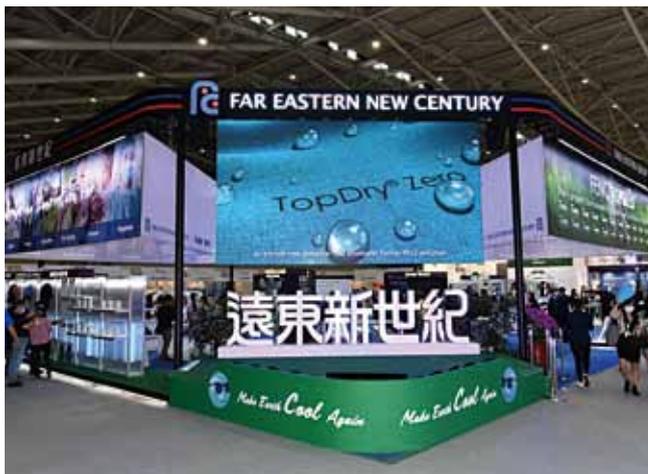
Bio-based coffee membrane AIRMEM™ by Singtex with medical protection and sustainable properties, is made with industrial wastes and bio-based coffee oils. Its odor control ability is two times better than normal PU membrane and reduce petroleum consumption by 26%. AIRMEM COLORSHELL color membrane series with solution dyed fabrics provide a variety of color options and save water for dyeing and finishing. These are perfect combination of fashion, eco-friendly and pandemic prevention.

Personal Protective Equipment

COVID-19 has brought opportunities for Taiwan textile industry. By modifying their production lines to produce protective textile products, Taiwan textile suppliers created more business opportunities as the result. This year, TITAS showcase highly innovated post pandemic-related products.

During the interview, Far Eastern New Century Chairman Douglas T. Hsu said, the company developed new materials in the field of personal protective equipment such as mask fibers and protective clothing, launched industry-leading high-quality products, and provided a lot of support for supply downstream applications such as blood collection tubes and anti-fog masks to fully support global medical sanitary materials; FENC® Hycare Staple Fiber for Facemasks mask fiber, spare no effort to supply mask fibers during the pandemic, and its inner hydrophilic fiber supplies 600 tons per month, equivalent to the amount of a billion facemasks.

Cheng-Hai Hung, Chairman of Eclat, stated that masks have become a necessity in daily life in the post-pandemic era. In addition to matching fashion, skin-friendly collagen can be woven into the cover; Eclat Sofform series which cut down production processes but with special construction designs and



material, it offers three main innovative functions that are "light weight and permeability", "flexibility and comfort" and "keeping warm in winter".

In response to the government's "Epidemic New Life Movement", Formosa Chemicals & Fibre Corporation introduces chitin-derived fibers and compound fibers with anti-bacterial, mildew-proof, deodorant features with proven anti-bacterial results up to 99%. In addition to protecting personal wellbeing, the organic and biodegradable properties are friendly to the environment. Formosa Chemical Nylon uses functional material synthesis and dispersion technology to develop anti-bacterial warmth and anti-bacterial cooling compound functional yarns with silver ions, which is strongly promoted in the post-pandemic era.

Formosa Plastics developed price competitive melt blown material, which is 30-40% cheaper than imported goods, in addition to its high quality. Another show highlight is the anti-bacterial luggage made of oyster shells which is epidemic preventive, but also is quite environmentally friendly.

Chen Shizong, Chairman of the Taiwan Nonwoven Fabrics Industry Association stated that the association group together Taiwanese manufacturers to form a national anti-epidemic team. Manufacturers invest in innovation to produce fabrics from the middle and outer layers of face masks, protective clothing and isolation gowns, alcohol wipes and carpets, etc. The epidemic prevention supply chain is complete. All products are made in Taiwan and can also be exported as a whole factory to assist other countries in epidemic prevention. Medical care, filtration and cleanliness, sustainable environmental protection are approaches to create new opportunities for the Taiwan nonwoven fabric manufacturers.

Smart Textiles

Taiwan textile industry uses 5G smart technology and innovative fibers to combine wearable devices, cloud information and wireless transmission technology. With continuous researches, suppliers develop smart textiles and smart clothing that are comfortable to wear and have measurement functions.

Asiatic Fiber showcased iQmax technology that combines fiber and electronic products. Through mobile phones and APP, wearers can control temperature levels or electrotherapy modes. iQmax technology enhances personal protection, health care, comfort, and the garments can be more interactive and responsive to the wearers.

Formosa Taffeta A+ smart clothing combines high-tech and the latest weaving technology to keep the clothes comfortable and natural to the touch. It combines heating elements, light-emitting elements and wireless control device connected to the control module. The wearers can monitor remotely through mobile devices such as smartphones, tablets, smart watches to regulate the thermal and light-emission features on the garments to provide safety signaling functions.

Taiwan Textile Research Institute introduced Taiwan's first two-in-one "rehabilitation assistive device", using the fabric electric shock and elastic fabric line produced by the textile to detect the activity of two muscles at the same time. The situation allows physical therapists to have an objective basis to follow when setting exercise prescriptions.

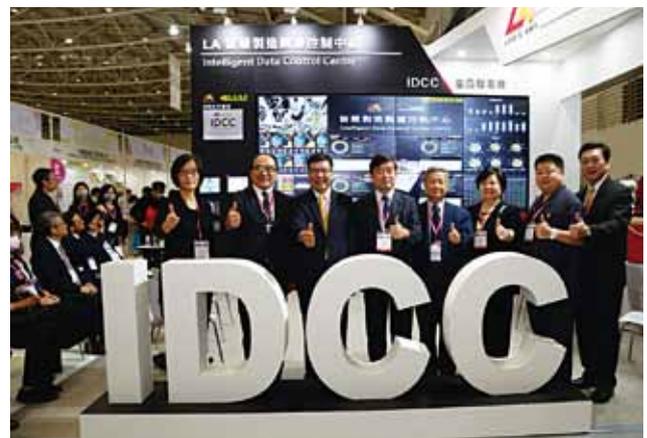
Intelligent Manufacturing

Taiwan sewing equipment manufacturers combine artificial intelligence, digitization and database integration technology to automate the application of four-needle six-thread sewing machines and three-needle interlock sewing machines to achieve the highest productivity and efficiency. By continuously improve product automation and intelligence, the production line is flexible and can rapidly respond to meet the urgent order of the global garment market demand.

OSHIMA exhibited innovative spreading machine specially developed for the epidemic. The machine is designed to increase spreading efficiency for high volume multi-layer productions to 6 to 8 layers at a time; solutions from Smart Automatic Cutting Machine Series J3 and M8S can increase the capacity of protective garments. OSHIMA becomes the key partner for international garment manufacturers.

MEGASEW introduced the "No-tilting sewing machine" which is more ergonomic and increases 30% more of the efficiency, compared to traditional machines; the four-needle six-thread sewing machine has the advantage of smooth stitches and not scratching the skin, it enjoys an excellent reputation in the industry. MEGASEW's products are sold and well received in more than 60 countries.

In response to the industrial needs of textile smart manufacturing, Logic Art has the world's only "Textile Dyeing and Finishing Total Solution Platform System", which integrates laboratory dyeing recipes and processes, and uses LA SPC central monitoring system to apply dyeing machine networking, dyeing auxiliaries metering, conveying, storage system, setting machine, etc. combined with ERP system to develop intelligent production system equipment for dyeing and finishing plants to achieve Right-First-Time dyeing.



Integrating Online and Offline Marketing for Post COVID-19 Era

In response to the trend of "contact-free" and digital commerce in the post-pandemic era, TITAS integrated online and offline marketing to help exhibitors to explore more business opportunities this year. Online marketing measures included exhibitors' online catalogues, live streaming videos, and virtual one-on-one business meetings.

The online catalogue is a digital platform allows exhibitors to present product features through text, pictures and videos. International buyers can search for the latest products, contact and send inquire to the exhibitors, providing both parties 24/7, real-time interaction.

In order to promote the innovation and high-quality textiles from Taiwan, and to make up for the foreign buyers who couldn't physically visit the event this year, TITAS produced videos for exhibitors with innovative products and technologies to be streamed online. The videos were uploaded to YouTube, FB and other video channels and websites during the show.

Breaking through the epidemic limit, TITAS 2020 still invited more than 40 international brands in the outdoor, sports and athleisure fields from 15 countries to conduct more than 300 physical and virtual one-on-one business meetings with Taiwanese exhibitors, such as Swiss skiing and sports Brand

Scott, British travel and adventure clothing brand Craghoppers, American outdoor leisure brand Royal Robbins, Japan sports goods brand Mizuno, etc., have successfully established cooperation between Taiwanese suppliers and international buyers.

Product Presentation and Seminars on Latest Industry Trends

During TITAS 2020, a total of 9 seminars were held, including presentation for "Smart and green textile materials", "Function and fashion design for medical supports", "Turning data into speed and creating the productivity 4.0 era of human-machine collaboration", etc. The activity area also had many dynamic live shows and new product launch events which were exciting and rich in content.

The show this year specially held the "Medical protection textile joint presentation" and the "Taiwan high performance functional textile application presentation", whose high attendance proved their success. The "Pandemic Prevention Zone" set up in the Trend area to showcase medical protective textiles during and after COVID-19. Major medical institutions were also invited to participate in the "Medical protection textile joint presentation" and the guided tours arranged after the presentation. Hopefully, this will be a good start to build the supply chain for medical textiles in Taiwan and will be the driving forces for the development of Taiwan textile industry!



Exhibitors

Exhibitor	Company	Share %	Booth	Share %
Domestic	330	93%	762	95%
Overseas	26	7%	41	5%
Total	356	100%	803	100%

Exhibits

Product Category	Company	Share %
Apparel Textiles	114	32%
Trimmings & Related Products	58	16%
Fibers, Filaments & Yarns	49	14%
OEM / ODM Apparel & Accessories	41	12%
Upholstery & Industrial Textiles	29	8%
Textile Machinery / Sewing Equipment	25	7%
Dyes & Additives	8	2%
Textile Inspection & Certification	5	1%
Related Products & Services	27	8%
Total	356	100%

Purchasing Products

Product Category	Share %
Textile Products for Clothing Use	44%
- Functional Fabrics	15%
- Fashionable Fabrics	11%
- Fibers	10%
- Yarns	8%
Ready to Wear & Sweater	8%
Accessories	8%
Industrial Textiles	7%
Textile Machinery / Sewing Equipment	7%
Home Textiles	7%
Nonwoven Textiles	4%
Trimmings & Related Products	4%
Inspection & Certification	3%
Others	8%

Visitors

Visitors	Number	Share %
Domestic	31,422	98%
Overseas	578	2%
Total	32,000	100%

Top Ten Visiting Countries

1. Taiwan	6. Vietnam
2. China	7. Singapore
3. United States	8. Japan
4. European Union	9. Indonesia
5. Hong Kong	10. Thailand



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