



Micro Factory

Demonstrate the Focus of the Mini Factory

For TITAS 2019, TTF launches an image space for smart manufacturing named Micro Factory. The space aims to present the concept of a highly efficient and effective automation engineering in garment manufacturing across the whole process from design, printing & cutting, sewing up to finishing.

• CAD Design

Toyobo (Taiwan) presents a smart design engineering work with new AccuMark pattern design software, AccuPlan spread & cut planning software and NSCAN scanner system, all from renowned brands of apparel making systems.

• Printing & Cutting

Epson Taiwan showcases its highly efficient full-color inkjet label printer and dye sublimation digital textile printer with double heads; TSM displays in an integrated way its cutting system covering knit/woven automatic spreading machine, conveying belt type cutting machine and mechanic auto cutting machine.

• Sewing

Two types of sewing machines are presented here. Under the "stitch sewing", we have Shing Ling with its automatic high speed computer controlled sewing machine; New Woosun, an agent for micro computerized auto sewing machines; and Leman with its high speed auto template sewing machine. And under the "seamless sewing" are New Pads Industry with its 3D hot air hemming machine for seamless bonding and hot melt adhesive machine; and sewfree tape laydown + ultrasonic trimmer from Ching Sung, a supplier of international sewing and automation equipment.

• Finishing

OSHIMA upgrades the finishing process of garment production and makes it a smart one by offering data identification & needle detecting system, pneumatic flat heat press machine and auto carton sealing system.

Solution Provider

Create Business Opportunities Through ICT Technology Import

Digital technology is rapidly changing the world around us. Applying digital transformation to create new values and gain competitive advantages is crucial for both textile and apparel industry and brands to benefit from their supply chain partnership.

This year one of the new features at TITAS is the launch of Solution Provider, a space and platform devoted to creating business prospects across fields through the introduction of ICT technologies.

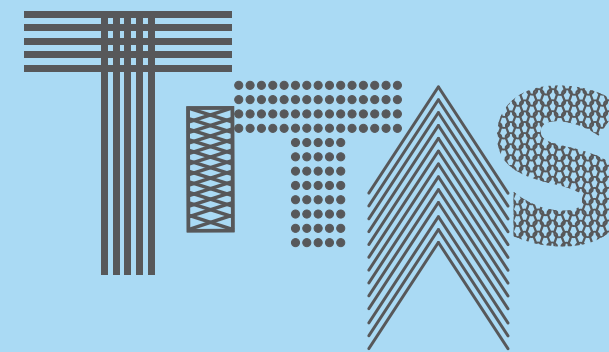
Among the exhibitors in this space, Material Exchange and Swatchbook provide online platforms for the supply chain of fashion industry to establish partnership. Material and product catalogs with detailed information provided at these platforms facilitate sourcing dialogues between design teams from brands and their potential suppliers. Browzwear and UFA are experts in the development of 3D and CAD software for fashion design, which enables more effective and efficient communication among parties involved through highly authentic presentation of fabric and designwork. PowerArena and eAL provide bespoke management systems for enterprises, using AI and data collecting and analysing technologies to offer optimization solution for production and productivity. Winstar provides a hardware and software integration system by incorporating high resolution camera with digital image processing technology to automate the quality control process and avoid human error.

With the continual development of technology, system service providers are able to make use of advanced technology to provide more powerful solutions and offer consultation on value chain improvement, facilitating the implementation of a "smart transformation" for the industry.

We look forward to your participation in our Event Area!

October 7			
Time	Event	Company	Introduction
11:00 12:00	RE = Recycle Polyester or Nylon Ecoya= Solution Dye / Dope Dye Technique	LIBOLON	ReEcoya® is the new technology of 100% recycled materials combining with Ecoya® dyeing technique, advocating the commitment to Eco-system and circular economy. Reducing the usage of water and energy; in the meantime, maintaining the colorfastness of the products.
13:00 14:00	New Chapter for Functional Wear	TEX-RAY	Texray's own brand L'ARMURE and ODM team present to you a modern functional urban-wear. Our designs infuse European sensibility with Asian innovative creativity. Our garments are sartorial artifacts worn to protect and express one's personality. Crafted by combining durable weather protection with creative lightweight materials, these garments are light enough to layer for better adaptability for colder climates.
14:30 15:30	The Mega Trend of rPET and It's Impact on the Textile Industry	FENC	In response to the global trend of the circular economy, this presentation will review the supply and demand forecasts of rPET by the international agencies. We will also analyze its long-term impact on the supply chain of the textile industry.
16:00 17:00	New Yarns by ZIG SHENG	ZIG SHENG	At Zig Sheng, the focus is on healthier and more natural looks. It's also about performance and recovery. Apart from an entire collection of our fashion polyester yarns, Zig Sheng will also introduce new functional Nylon 6 - a nylon with better performance and recovery, to improve performance and recovery.
October 8			
10:00 11:00	Digital Production & Intelligent Knitting	SHIMA SEIKI	Facing the current problem of the traditional knitting industry, using digital production to improve the traditional way of manufacturing process. From automation to intelligence, providing a high efficient solution for the future knitting industry.
11:30 12:30	Techstyle for Sustainability: from New Materials to Recycling Technologies	FENC	Increasing demands for more sustainable productions have led to a growth of innovations for sustainability such as new materials as well as recycling technologies for textiles. Come hear from The Mills Fabrica- a leading incubator and innovation platform supporting and nurturing new startups in the space of techstyle (intersection of technology and style). The talk will share about latest trends and innovations in the textiles and fashion especially in the space for material, supply chain innovation and new digital brand experiences. They will also be joined by some of their portfolio companies innovating in areas like new biomaterials and chemical recycling technologies.
13:00 14:00	Rich-y Show	GRANDETEX	GrandeTex offers functional fabrics for professional work attires, athleisure, outdoor, and indoor products with the aim to develop more eco-friendly materials to protect the environment. "Rich-y" is a patented technology by GrandeTex that offers long-lasting antibacterial, UV-proof, odor-free, moisture-wicking, and cooling effects to fabrics so there is no need for further chemical treatments. The fabric is an ideal choice for sportswear, athleisure wear, and undergarments.
14:30 15:30	Introducing and Partnering with the LYCRA Company	THE LYCRA COMPANY	Partnering with The LYCRA Company! We're in the same business: we succeed when you succeed. That means being more than a fiber supplier - much more, we want to be a business partner, helping you to be successful, helping you achieve your corporate and personal objectives. After 60 years at the leading edge of garment industry innovation, we offer a wide range of business support - commercial, marketing, technical, supply chain / sourcing-related and more. We are with you, every step of the way!
16:00 17:00	37.5° Technology Helps Control Your Core Temp No Matter the Activity or Weather	YI JINN	37.5™ Technology Helps Human Body Maintain Comfortable 37.5°C. Developed by Cocona, 37.5™ technology is a patented technology that utilizes body heat to evaporate moisture and is primarily used to develop functional fabrics. The human body is equivalent to a 24-hour continuous heating machine, whose main way to release heat and to keep the human body in a most comfortable temperature is the evaporation of sweat. Nevertheless, if the vapor from water evaporation cannot be removed from the clothes in time, it will continue to accumulate, making the micro-climate between the body surface and the clothing very humid and uncomfortably sticky to the people wearing the clothes. 37.5™ technology can strengthen the human body's natural cooling mechanism - the human body sweats to lower down body temperature, while 37.5™ technology removes sweat from the micro-climate of the clothing.
October 9			
10:00 11:00	First Mile & New Wide	NEW WIDE	From the First Mile to New Wide: How recycled polyester can create jobs, change communities, and save our oceans. Recycling has the potential to do so much more than provide an eco-friendly solution to the plastic pollution crisis. Learn how First Mile uses waste as a resource to help communities create jobs and help brands create responsible products that consumers love. Using a triple bottom line approach, First Mile is able to partner with companies such as New Wide, and brands such as Aerie, to create the most responsible clothing on the planet!
11:30 12:30	The New Standard in Sustainability (U.S. Cotton Trust Protocol)	COTTON USA	COTTON USA™ has a long-standing commitment to reducing U.S. cotton environmental footprint for a greener world. The new U.S. Cotton Trust Protocol is to continue U.S. cotton's reputation as the most sustainably farmed cotton in the world. By 2025, the organization is committed to these goals: • 18% increase in irrigation efficiency • 39% reduction in greenhouse gas emissions • 15% reduction in energy expenditures • 50% reduction in soil loss • 30% increase in soil carbon • 13% increase in productivity (i.e. reduced land use per pound of fiber)

TAIPEI INNOVATIVE TEXTILE APPLICATION SHOW 2019 台北紡織展 OCTOBER 7 - 9



Day 1 Show Daily

TITAS 2019 Showcases the Best in Textile Innovation

Functional Applications, Sustainability, Smart Textile and Smart Manufacturing

Organized by the Taiwan Textile Federation (TTF) and under the auspices of the Bureau of Foreign Trade, Ministry of Economic Affairs, Taipei Innovative Textile Application Show (TITAS) is now entering into its 23rd edition this year. TITAS, scheduled for grand opening at Taipei Nangang Exhibition Center, Hall 1 from October 7th to 9th, will be a part of Taipei Fashion Week organized by Ministry of Culture that takes the theme of "NOWism", focusing on the idea that now is the future for Taiwan. For TITAS this year, 423 exhibitors in 1,058 booths from 12 nations / regions will be attending this spectacular event. The scope of our event has expanded to include suppliers of equipment and facilities along with the latest innovations from the textile industry, making the year's event the largest in scale, implying considerable business potential for Show participants.

Major Platform for Both Domestic and International Vendors

In addition to key players in Taiwan's textile industry, such as Formosa Plastic Group, Far Eastern New Century, Makalot Industrial, Tex-Ray Industrial, Tainan Spinning, Yi Jinn Industrial, Eclat Enterprise, New Wide Enterprise, Lealea, SingTex, Everlight Chemical, Sunny Special Dye-ing and Finishing, Sunny Ray, Zig Sheng Industrial, DingZing Advanced Materials, Tri-Ocean Textile, Chia Her Industrial, Chainlon, OSHIMA, Shing Ling Sewing Machine, Taiwan Spreading Center Enterprises, etc. Taiwan Textile Research Institute, Southern Taiwan Textile Research Alliance, MIT Underwear Innovation Alliance, Taiwan Technical Textiles Association, 20 trade organizations and associations

representing various segments in Taiwan's textile industry will also be attending TITAS 2019, representing Taiwan's wide spectrum of suppliers and manufacturers.

International vendors that will be making their visits to Taiwan for the first time include: Fu-jibo, HeiQ Materials Group, LYCRA® by the Lycra Company, Material Exchange, EU Textile 2030, Protechnic, Emtec, COVEME from Italy, Cotton Council International and INTRINSIC.

Other special delegations include Baden-Württemberg International (BWI) from Germany, a team of buyers from International Textile Manufacturers Federation (ITMF), and delegation from Vietnam Textile and Apparel Association (VITAS).

Four Key Themes: Functional Applications, Sustainability, Smart Textile, and Smart Manufacturing

In response to the trends for industry development and market needs, TITAS 2019 focuses on the following four themes:

• Functional Applications

Functional textiles with numerous features have enabled a brand new life style that crosses over sports, outdoor, fashion, and healthcare. These are super-lightweight, down-proof, tear-proof, durable, water repellent textile products from Taiwan are highly praised by buyers from all over the world, including SUNMOR, RICH-y®, and SHELTER knit wear by S.Café.

• Sustainability

From recycling PET bottles to re-use of fishnets and waste materials from the ocean... latest advancements help eliminate and recycle to produce textiles for circular economies. Some of the very innovative

products from Taiwan's enterprises include ELTTOB®, BioPro®, ECO-Ior®, RePET®, ReEcoya®, NylonPlus®.

• Smart Textiles

Using innovative fibers or wearable devices, cloud data and wireless transmission devices to integrate temperature control functions for textile products and smart garments that are comfortable and functional is another main theme this year. Examples of these devices include A* Smart Thermoregulation Clothing and iQmax.

• Smart Manufacturing

Development of high technologies and facilities for Industry 4.0 will help the garment industry step up to automated production and smart manufacturing. Technologies presented here include intelligent spreading systems that consolidates all production stages in one stop and technologies that integrate digital applications for online interphases and database systems.

Special Themed Area: Solution Provider and Micro Factory

For the first time, a special area will showcase the latest trends with the themes of "Solution Provider" and "Micro Factory". The Solution Provider section shows how the use of digital transformation will help creating values for the textile industry, and the Micro Factory area demonstrates the concept of automated manufacturing in four stages: design, pre-sew, sewing, and finish-ing. Visitors will have a chance to see how technologies and systems help make these transitions more efficient and productive.

Main Event: One-on-one Business Meetings

One of the most important events at TITAS is the one-on-one business meetings, where representatives from 18 countries will meet vendors in more than 1,000 meetings. This year, apart from several major outdoor, hunting, functional and sports brands, representatives from brands for shoes, handbags and travel cases will attend these meetings as well. Some of the heavyweight brands in include GOLITE, 5.11, RAPHA, POC, ECCO, SAMSONITE, CamelBak, and more.

Insightful Seminars and Product Presentations

In a special event area allocated this year, 11 events will unfold, including New Chapter in Functional Garments, Sustainable Technology and Fashion, Digitalized Production and Smart Weaving, and more - all exciting events not to be missed out!

There will also be 17 presentations by both foreign and local experts to share the latest trends in the industry. Topics include forward-thinking strategies and prospects for smart textiles, finish-ing technologies for functional textiles for leading brands, trade war and the rise of MIT products, sustainable innovative technologies for Merino wool, future AI automatic inspection application and development, and more.

TITAS 2020

Since TITAS is one of the most important events for Taiwan's textile industry, Taiwan Textile Federation will continue to expand the programs and scale in the future. In 2020, TITAS will be held in October 6th - 8th. TITAS welcomes your attendance next year!

2020-2021 Fall and Winter Fashion Trends



Sponsoring Authority



Organizers



Highlights of Exhibition >>>



For TITAS 2019, Formosa Plastics Group (FPG) carries the theme of "Smart Innovation and Sustainability" for its exhibits to reflect its determination to implement a green policy while presenting high-quality, high-tech and high-value textiles.

The FPG pavilion at TITAS 2019 is a joint exhibition from Formosa Chemicals & Fibre, Formosa Plastics,

Nan Ya Plastics and Formosa Taffeta. The pavilion features five image areas – Fashion and Down, Sportswear In Style, Bio-friendly and Sustainability, and Industrial Materials – all to highlight the Group's latest textile collections and their comprehensive applications in fashion, sportswear, outdoor and industrial sector. FPG's fiber lines cover polyester, polypropylene, rayon, elastic, carbon,

polyamide, and functional fibers, all serving as materials for Formosa Taffeta to develop into sophisticated fabrics by incorporating advanced green and performance technologies. Please visit

FORMOSA PLASTICS GROUP

Smart Innovation and Sustainability

FORMOSA TAFFETA (FTC)

Innovative A* Smart Thermoregulation Clothing and Green Woven Products!

● A* Smart Thermoregulation Clothing

Is the result of joint cross-industry collaboration supported by Department of Industrial Technology, Ministry of Economic Affairs, combining efforts from the textile, telecommunication, electronic and garment industry. FTC A* Smart thermoregulation clothing offers comfortable and naturally soft touch along with thermal and light-emitting components. These materials can be monitored through mobile devices, smart watches and mobile phones. Smart thermoregulation clothing emits even heat, heats up rapidly, is safe to wash, and is ideal for extreme sports or cold climates.

● Eco-friendly fabrics

As part of fulfilling its corporate social responsibilities, FTC is deeply committed in developing eco-friendly material. Key products include: ocean plastic recycled fabric, recycled polyester fabric, BOOMETEX® recycled polyester, cationic dyeable polyester fiber and eco-friendly

NAN YA PLASTICS (NPC)

Diversified products to enhance environmental protection and comfort!

● GREENONE

These biodegradable polyesters can be totally degraded within 3-4 years. Tested by ASTM D5511 method shows a 20% biodegradation in 200 days. GREENONE can be combined with recycled PET bottles, bio-based and heavy metal technologies to achieve additional degradation results.

● FRESHUP odor-free polyesters

Contrary to traditional odor-elimination fibers, FRESHUP decomposes odors absorbed from outside and keep the garments fresh.

● 「CHROMUCH」dope dyed polyester

It is a polyester which retains a bright, deep colors with high fastness. Reflective yarns made by CHROMUCH technologies not only meet the high EN20471 standards for high visibility clothing, they also show high washing and light color fastness.

out Pavilion and experience for yourself the superior quality and technology the Group has to offer.

For more information, please visit the [Booth M120](#).

nylon fabrics, Umofil® / collagen fabric, dope dyed fabric, AQUAOFF® Waterless Eco-dyed, Fonew® eco-HT, and more.

● Special woven fabrics

Made with Dupont's fire retardant fiber NOMEX®, these woven fabrics are water repellent and moisture-absorbing with infrared camouflage features - applicable for industrial safety garments, firefighting, military, and police uniforms. Safety fabrics include damper fabrics with low formaldehyde. Other highlights include bullet-proof, abrasion-proof KEVLAR® used for bullet-proof helmets and shields, and the new-generation bullet-proof vest materials.

● Carbon fabrics

Various carbon fiber and composite materials, uni-direction prepreg fabrics and multi-axial fabrics for applications in sports goods, bicycles and construction reinforcement. Another application is protective cases for electronic products including mobile, laptop and tablet devices. New application development includes electric cars, yacht and wind turbine blades.

● CHROMUCH-lux gradient dope dyed polyester:

The gradient effect can be used as warp yarn for filament yarn woven fabric to create an elegant gradient effect. If used as weft yarn with nylon as warp yarn, and then treated with acidic dyes, the color effects for the fabric will be even more vibrant.

● Comfortable elastic materials

SPANFIT, made by using a special filament yarn spinning technology, has an elastic, wrinkle-proof and comfortable texture.

● TOPFIT

A mechanical stretch filament yarn developed for knits. Besides better stretch, the yarn provides knits with better snag resistant and UV proof properties.

● ECOGREEN

Post-consumer recycled polyesters that are consistency in quality ability, diversity in selections and can be fully traceable.

FAR EASTERN NEW CENTURY

Designated Manufacturer of Global Sports Events

Far East New Century has the manufacturing advantages and superb research and development capabilities of vertical integration in the upstream and downstream. In recent years, it has successfully developed various new products and functional fabrics, and has become a core supplier of internationally renowned apparel brands.

● FENC® Water Free Dyeing

FENC® has pioneered the use of supercritical carbon dioxide (scCO₂) for a water-free dyeing process for polyester and nylon since 2013. The world's first water-free dyeing technology for nylon was launched by FENC® in 2018. FENC® Water Free Dyeing technology not only eliminates waste water but also significantly reduces the energy, chemicals and time required to dye fabrics.

● FENC® TOPGREEN® Membrane

TOPGREEN® membrane is the world's first Post-Consumer Recycled (PCR) hydrophilic polyester membrane. Made from GRS certified eco-friendly material, the membrane is 100% recyclable. Turning recycled PET bottles into rPEE membrane, TOPGREEN® membrane delivers uncompromising performance of waterproofing and breathability where users need it most.

● FENC® TopCool® Petal Filament

FENC® TopCool® Petal is a whole new moisture management filament which creates capillary action with its 8 channel x-section. The filament can rapidly wick moisture from human skin and transmit it out to a wider area on the surface of

fabric for accelerated evaporation. Its unique cross-section also creates jewelry luster on fabrics as well as superior hand feel.

● OTIZ® NY6,6 Solution Dyed Products

The OTIZ® Nylon 6,6 is a high tenacity spun dyed yarn which fulfills a demand in the automobile textiles market. The dyeing process adopted effectively reduces the production cost and pollution to the environment.

● FENC supports worldwide sporting events

FENC's fabrics are widely used by well-known international brands to manufacture active and athletic wear for major sporting events.

◆ NBA Promo Player Uniform

Innovative jacquard design for high intensity games and training. Unique airflow designed to increase extension of the body, using cloth deformation to reach best physical coordination during games.

Fabric features: 3D mapping - Structured design to minimize friction and aid movement. Breathable - Allowing air to pass through so that perspiration can evaporate. Fast drying - Evaporating moisture in moments to keep you cool and collected.

◆ 2019 Women's World Cup

Jersey worn in the games made from recycled polyester yarns. Airflow design can reduce aerodynamic drag effectively. Superior wicking performance for maximum comfort during training and games.

For more information, please visit the [Booth M106](#).

YI JINN Earth-Loving, Sustainable and Great Living

Yi Jinn firmly believes in the spirit of innovation. Moving from manufacturing basic yarns and filaments toward development of environment-friendly + functional fibers, Yi Jinn will continue to collaborate with international brands to develop high-value textile products. Yi Jinn works with its subsidiary companies, including Hong Chou Fiber, Yi Jinn Industrial, and Kwang Ming Silk Mill to focus on the theme of "Earth-Loving, Sustainability and Great Living" in a special pavilion at TITAS 2019. Yi Jinn will present the latest product from collaboration with BioSphere Plastic LLC - a biodegradable polyester BioPro that improves upon the hydrophilic properties of polyesters. BioSphere additives enhance the ability for the plastic product to decompose by microorganisms. Enzymes that decompose the plastic compositions will further decompose into simple monomers which will stimulate

further decomposition into anaerobic and aerobic environments, water and remaining bio-weights. The solutions to manufacture environmentally friendly products help to protect the environment.

For TITAS 2019, Yi Jinn has invited Christy Raedeke, Technology VP of Sales & Marketing from 37.5° Technology to attend TITAS 2019 and the product presentation. At the same time, they will also be presenting the second generation Nano-copper antibacterial fiber with enhanced antioxidant benefits.

Yi Jinn Group takes "Innovation, Bio-friendliness, Sustainability, A Great Life" as the directions in developing innovative products through compound polyester materials. It also actively works to integrate upper, mid, and lower stream resources in the textile industry to connect with global garment brands. Please visit the [Booth M719](#).

ECLAT TEXTILE

Showcase the Latest Functional Fabrics

Eclat is one of the world's leading athletic textile and apparel designers and makers. Insisting on consistent and outstanding quality, Eclat creates value and sets industrial benchmarks that redefine the market. They provide comprehensive and integrated services from knitting and dyeing to garment making and logistics. Their facilities throughout Asia are certified by professional institutions, taking responsible actions with regard to people, the environment and resources. They make sure that the environmental performance of its products and people meets higher standard than required in order to serve as a sustainable business model in the industry. Their functional knit is designed with a concept in mind. They developed a new value proposition "Materials with purpose" to capture the essence of Eclat's capabilities in

activewear.

At TITAS 2019, "Functional" knit "will be the theme of their display, covering three major categories of its products:

● Light* knit

Active layers for high intensity workout, they have the advantages of lightweight, quick dry and natural stretch without the use of spandex.

● Flex* knit

Active compression material for fitted styles with its functional advantages: lessening muscle fatigue, flexible and figure enhancing.

● Thermal knit

Active material for outdoor training and recovery. It is comfortable and resilient, bulky and light with heat insulation. Ideal for colder seasons. Please visit the [Booth M820](#).

TAINAN SPINNING

Wellness Energy Ecology

Tainan Spinning grew its expertise in fiber and textile production out of 64 years of devotion in the field. They have been focusing on optimizing their technology and new facilities to elevate quality and develop innovative products. The company are now a reputable supplier of textile materials including polyester chips, polyester partially oriented yarn (POY), polyester drawn textured yarn (DTY), polyester staple fiber (PSF) and solid-state polymerized bottle chip. They work hard on promoting the circular economy by using recycled PET bottles as raw material to produce high-quality polyester fibers, which have obtained Global Recycled Standard Version 4.0 certification and become designed material by international brands and retailers.

At TITAS 2019, Tainan Spinning will

showcase products made from its PET bottles recycled polyester fiber ELTTOB®.

● Basic types

Partially oriented yarn (POY); drawn textured yarn (DTY); staple fiber; cotton yarn.

● Functional series

Low denier yarn; high count filament yarn; bright yarn (BR); full dull yarn (FD); moisture wicking yarn (HICOOL®); cationic dyeable moisture wicking yarn; moisture wicking composite super cool / UV-protection / antimicrobial yarn; light-induced heat-generation yarn (Hiwarm®); low temperature deep dyeing yarn; two-tone composite yarn. Tainan Spinning sticks to its corporate philosophy of "Three Goods and One Fair", integrating "eco-friendliness" and "innovation" into products. Please visit the [Booth M830](#).

NEW WIDE GROUP

Sustainable Environmental Protection, Innovative Development

New Wide Group plans to include five sections in the TITAS 2019, including Water Saving, Breathable, Eco & Biodegradable - Sustainability series; Aerogel, Cottony - Innovation series.

● Sustainability series

◆ Water Saving series: Using eco-friendly materials and technologies, such as dope dyeing, digital printing and recycled ocean plastic to reduce the impact on water resources.

◆ Breathable series: Mesh fabrics made with recycled polyester cooling yarn and xylitol cooling print create a cool and comfortable feeling when contacting

with the skin.

◆ Eco & Biodegradable series : Fabrics made with biodegradable polyester fiber blended with natural fibers will decompose eventually in landfills.

● Innovation series

◆ Aerogel series: Aerogel knit is lightweight featuring thermoregulation by incorporating aerogel into yarns.

◆ Cottony series: The cottony fabric developed by New Wide has a natural cotton look and feel while possessing the functionality and durability of manmade fibers. For more information, please visit the [Booth M812](#).

FORMOSA PLASTICS (FPC)

Leader in carbon and elastic fibers!

● Tairyfil carbon fiber

Tairyfil carbon fiber developed by Formosa Plastic is a carbonized filament series that has good conductivity and is stronger than steel, lighter than aluminum, acid and alkali resistant, and conductive. It has a wide range of applications covering sports goods, wind turbine blades, automobile, aircraft, vessel, CNG tank, cable core and construction reinforcement. With an annual capacity of 8,750 tons, FPC offers Tairyfil in a full range of specifications including filament tow

from 1.5K to 48K, and tensile modulus from normal to high.

● Elastic fibers

FPC introduced a dry spinning technology from Asahi Kasei to produce spandex which keeps Asahi's registered brand name ROICA®. Spandex, also known as polyurethane fibers and elastane, has high elasticity and stretch like that of rubber, while its tensile strength and stress, abrasion resistance, aging resistance and chemical resistance are superior to rubber. These have become essential additive fibers among synthetic fibers.

FORMOSA CHEMICALS & FIBRE (FCFC)

Committed to green fashion with sustainable and recycled products!

● FCFC Coarse Denier Viscose Staple Fiber

These highly biodegradable fibers are excellent materials for wool blend garments. After carbonization, these can also be used as insulation materials for the aerospace industry.

● Nonwoven viscose fibers

These biodegradable fibers are excellent sustainable materials. With outstanding touch, the fibers can be combined with polyester fibers through spun lace process to produce materials for medical and aesthetic uses.

● FCFC Collagen Cotton

UMORFIL is a bionic peptide amino acid viscose fiber made from patented technology. It can be mixed with cotton, linen, silk and wool to produce innovative fabrics.

● FCFC Recycled nylon fibers

First introduced in 2017, recycled pre-consumer yarns made from nylon discards and wastes were certified by Nike, Adidas and other leading brands

to be used as materials for sports wear. In 2019, FCFC developed recycled post-consumer yarns made from fish nets to lower the negative impact of waste fishing nets to the ecology.

● FCFC Pre-dyed Industrial Yarns

In response to the issues of water pollution, FCFC developed pre-dyed industrial yarns to produce fishing net and oceanic ropes. In 2018, the technologies were used for fabrics to produce yarns for garments, shoes, and packaging. The technologies are part of FCFC's commitment to its social responsibilities and to help protect the environment.

● FCFC Nylons

FCFC offers a wide spectrum of nylon products, including ones that only need one coloration process after being blended with cottons and wools. These ultra fine denier nylon yarns are lightweight, fashionable, and functional, applicable for uppers for sports shoes, carbon fiber fabric molds, high tenacity woven bands, interior components for automobiles, stitchings, and low melt fuses used for bonding woven materials.