

# Functional Fashion

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## Smart socks for baby's safety and health monitoring

**Saiful Saad**

Textiles are a crucial part of our lives, and there has never been a greater desire for intelligent materials such as textiles that can be seamlessly mixed with technology. Smart textiles, also known as electronic textiles (e-textiles), are made up of electrical components and may perform certain activities.

Smart fabrics are intelligent systems that can sense and process the wearer's status as well as observe or convey ambient conditions. Electrical, thermal, mechanical, chemical, magnetic, and other inputs and outputs are employed.

Smart textiles are doing a pretty great job in all types of fields, like military, professional, fitness, performance analysis, thermal stability, and monitoring systems. Smart textile usage in baby clothes and the health sector is getting famous now because it combines technology and comfortability. Smart socks for babies are the new trend in smart textile field for monitoring baby health, oxygen level etc.

### Smart sock as a smart textile

Smart sock is a wearable device that includes a smart sensor placed inside a fabric sock that gently wraps

around the baby's foot.

The smart sensor can combine the power of clinically-proven technology, pulse oximetry, with Bluetooth to measure and communicate key health and wellness data from the infant. These socks can be of regular sock size, which is comfortable to wear and lessens the parents pain for monitoring and checking their baby's health manually. The data can be directly monitored via a base station. The base station sends a signal to the smart device of the parents and provides meaningful data analysis in real time.

The sensors used in smart socks can gather real time data by several algorithms baby's and temperature gauges, which notify parents when something appears to be wrong with heart rate or oxygen levels and make sure the unit maintains a comfortable temperature while the device is in use.

Smart socks can be used for checking baby sleep monitoring. Every baby has different sleep patterns. Babies spend the majority of their day sleeping. The typical amount of time that babies sleep depends on their age. The sleeping pattern of infants can tell whether they are healthy or unwell. Sleep monitoring system can



Figure 1: Smart socks for babies are comfortable and well monitored so parents can have a peace of mind.

automatically monitor in real time and send the data to the parents. These smart textiles can send notifications, alerts, ring to parents for instant threat of any kind.

Some smart socks can track baby's body movements while sleeping as well as awake. These body movements help to prevent any unwanted injuries and notifies the parents from time to time. These smart socks can monitor room temperature as well. Room temperature monitoring is a key parameter of baby health. Excess temperature of room can create rash, fuzziness and other problems to infant's body.

Noise can be a sensitive issue for regular infants. Excessive amount of noise can cause problems with baby hearing, sleep disorders, etc. Smart socks can be used

to understand the noise level of the room and monitor it. Sensitive babies can have problems with noise situation overall. Smart trackers can help parents to understand the difficulties regarding noise through smart socks.

A newborn baby will definitely begin to hit baby milestones, such as resting on their tummy, rolling and crawling. No matter how little one is getting around, their feet can come into contact with all kinds of dangerous surfaces and objects. It's inevitable that your child will step on a toy, walk on rougher surfaces or venture a few feet outside. Smart socks have a protective layer, which can enable safe feet for infants. The socks have extra bit of protection, which allows infants feet to be protected throughout the journey.

## Sports Apparel Market to reach US \$400 bn by 2033

**Nurnahar**

The sports apparel market is expected to reach US\$400 billion by 2033, with a CAGR of 6.9 percent over the forecast period of 2023 to 2033.

In 2023, the market size for this industry was estimated to be over US\$ 200 billion. According to a Fact.MR analysis, people are becoming more cognizant of their health and motivated to include sports and sports clothing in their lives in order to live healthier fitter lifestyles. The market is also projected to benefit from

women participating in domestic sports and fitness activities more frequently. Fashionable sports gear is in great demand since it is versatile, convenient, fashionable, and can be used in a variety of situations. This growing emphasis on style has been capitalized on by major players in the market studied, who have created unique, technologically complex things that are both comfortable and useful in order to match this demand, hence improving their profitability, Fact.MR said. Asia-Pacific is the region

in this segment that is expanding at the highest rate, with China and India having high rates of youth participation in sports and other leisure activities.

Despite the fact that the US is anticipated to be the largest market during the projection period, this is the case.

The demand for sports apparel in the region is anticipated to rise as a result of consumers' growing desire for international brands, rising disposable income, and aspirations for better lives.



Figure: The sports apparel market is expected to reach US \$400 billion by 2033, with a CAGR of 6.9 percent over the forecast period of 2023 to 2033.

## AATCC TM214 tool to measure accumulated condensation on fabric

**Arif-Uz-Zaman**

The American Association of Textile Chemists and Colorists (AATCC) has introduced a new test method to measure accumulated condensation in a fabric, a 'critical step' in driving sustainable practices within the supply chain.

The new test method of AATCC TM214 is a tool for assessing the performance of fabrics in wet and dry conditions, applicable to cloths, tent fabrics and medical and technical temporary shelters. However, the condensation rate depends

greatly on the temperature and vapor pressure throughout a fabric system.

According to the AATCC Research Committee, the new method is designed to measure water condensation on the inner (back) surface of waterproof fabrics in humid microclimates. During testing, the outer fabric (face) surface is subjected to dry and wet conditions (simulated rainfall). Condensation is calculated by calculating the mass change of a filter paper attached to the inner chamber

for a specified period of time.

The test apparatus consists of an inner chamber (microenvironment) and an outer chamber (simulated precipitation). The test can be conducted inside an environmental chamber or under ambient conditions. This feature allows a wide range of usage across different textile systems for accurate representation of a company's unique platform.

There are several existing test methods to measure the effectiveness of moisture transport systems 'through the fabric'. But the AATCC is the first method to measure condensation caused by the microclimate of textile products. AATCC also highlighted that the method will help companies

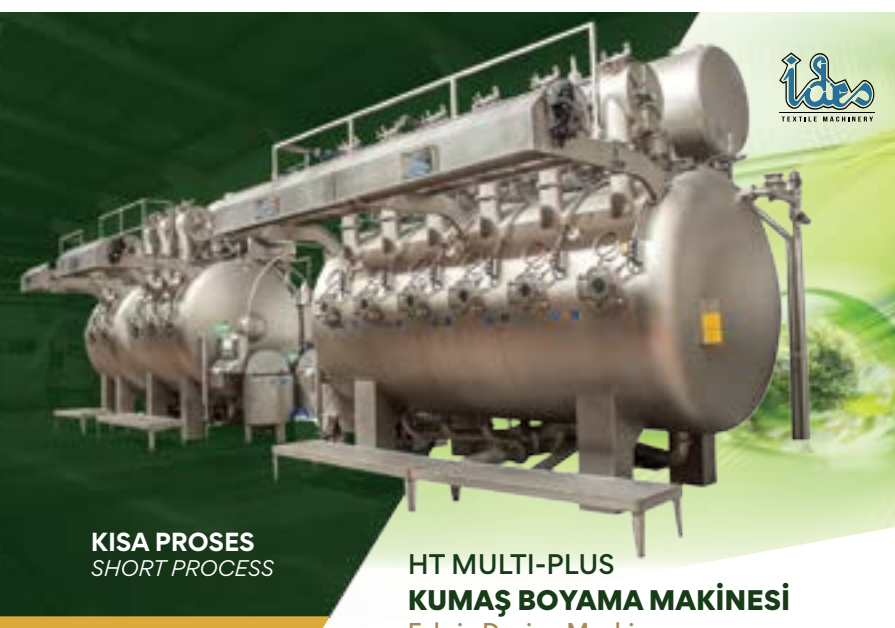


Figure: AATCC has introduced a new test method to measure accumulated condensation in a fabric, a 'critical step' in driving sustainable practices within the supply chain.

improve and develop new hydrophobic and water-resistant fabric systems; an effective way to drive sustainable practices in their supply chain.

Founded in 1921, AATCC has been connecting the global textile community to empower a more innovative, informed, and sustainable future.

For Full Story: <https://www.textiletoday.com.bd/aatcc-tm214-tool-measure-accumulated-condensation-fabric/sation-fabric/>



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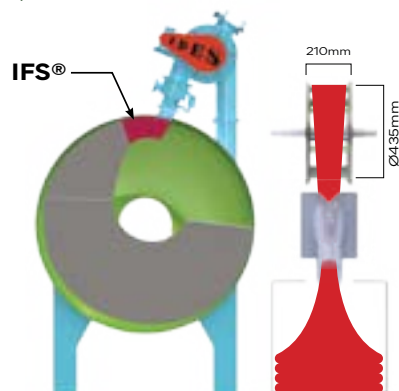
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## Karl Lagerfeld to launch capsule collection of Donald Duck

**Tania Akter**

Disney and Karl Lagerfeld are collaborating on a capsule collection to mark the company's 100th anniversary, which features a painting of Donald Duck from the late designer's early 2000s.

The capsule collection, which debuts on 23rd February on Karl.com and at a few select retailers around the world, incorporates Lagerfeld's 2004 caricature of Donald Duck as a tribute, with the well-known Disney character sporting the designer's dark sunglasses, trousers, a black blazer and a high-collared shirt. For the next Disney x Karl

Lagerfeld collection, this unique and unusual Donald Duck sketch will be featured once more on a variety of hilarious essentials and bold outerwear.

The sketch appears in various sizes and forms throughout the capsule, recurring as an all-over print on different designs, peeking out from under the pocket of T-shirts, and standing out boldly on jumpers. Several of the pieces in the partnership are, according to the brand, constructed using eco-friendly materials like organic cotton and recycled polyester.

For Full Story: <https://ff.textiletoday.com.bd/karl-lagerfeld-launch-capsule-collection-donald-duck/>

## Colorifix and Central Saint Martin's team up to accelerate microbial printing

**NA Tania**

In a bid to accelerate the transition to microbial color printing in the textile sector, the UK biotechnology company Colorifix and Central Saint Martins Faculty of Art and Design (CSM) at the University of the Arts London (UAL) have teamed together on a new Ph.D. research project.

The news was disclosed via a post on LinkedIn by Carole Collet, a professor affiliated with the institution where she serves as the co-director of the Living Systems Lab Research Group at CSM.

Ruth Lloyd, a designer and Ph.D. candidate at Central Saint Martins, is the project's leader. CSM researchers Carole Collet and Alice Taylor, as well as Jim Ajioka, chief science officer at Colorifix, will supervise the Ph.D. candidate during her research project.

Ruth Lloyd was a designer in residence at Colorifix from 2021 to 2022, and she will explore how to develop "a scalable bio-based coloring framework for the dyeing industry", for her Ph.D. projects. The textile industry is one of the global industries

that use the most water, "more than 5 trillion liters per year approximately", the post by researcher Collet reads.

Additionally, a large number of "highly toxic chemicals are used in its dyeing processes", about 70 different chemicals.

Colorifix uses simple sugars and plant by-products to replace the chemicals used in petrochemical dyeing processes.

Besides that, Professor Jim Ajioka, chief science officer at Colorifix Ltd, added, "Collaborative PhD projects like ours with Central Saint Martins



Figure: A large number of "highly toxic chemicals are used in its dyeing processes", about 70 different chemicals

will become an increasingly important component of research at the intersection of science and design, especially for industrial adoption of bio-based products and processes."

For Full Story: <https://ff.textiletoday.com.bd/colorifix-and-central-saint-martins-team-up-to-accelerate-microbial-printing/>

## Sentinel Technologies brings smart solutions for inventory tracking and management system

**Sentinel Story**

Sentinel Technologies Ltd. is a tech conglomerate, currently at the forefront of building innovative and effective solutions that address the most complex digital transformation and analytical needs of businesses through technology services, data, and consulting. Their core objective is to help business become more intelligent, efficient, and eventually sustainable.

They are also working on automating repetitive processes in software handling, which now requires human actions.

This means in near future their applications will be run entirely by software bots. Through RPA (Robotic Process Automation) their software bots will use a combination of automation, computer vision, and machine learning to automate repetitive, high-volume tasks that are rule-based and trigger-driven.

**Mission:** Their mission is to leverage their portfolio of capabilities in tracking, management, optimization, controls, process-automation, artificial intelligence, finance, analytics, and emerging

technologies to help businesses become sustainable and ready for the future.

**Vision:** Using intelligent and adaptive technologies to make business smart, efficient and sustainable; facilitating industries thrive in an everchanging world.

**Core Values:** Both their mission and vision stand firmly on their company core values. Their company is built on value as well as faith.



Figure: Sentinel Technologies smart solutions.

: <https://www.textiletoday.com.bd/sentinel-technologies-brings-smart-solutions-inventory-tracking-management-system/>

## Trace Network Labs hits \$500K+ revenue in 2022

**Rahbar Hossain**

According to Trace Network Labs' annual report for 2022, Trace Network Labs has established a revenue stream that exceeds \$500,000 ARR.

Trace Network Labs' steady revenue flow is mostly the result of its collaborations with numerous international fashion labels looking to establish their metaverse presence and introduce their NFT collections.

Trace introduced four product lines in 2022: Buddy, Bling, Gateway, and Pariz, each with a distinct goal and course for the future.

Trace also started Pariz, a metaverse for fashion and lifestyle. Shopping centers, name-brand retailers, and experiential stores will all be present.

Customers can purchase a brand's product in Pariz and



Figure: Trace introduced four product lines in 2022: Buddy, Bling, Gateway, and Pariz, each with a distinct goal and course for the future.

have it delivered right to their door.

Trace formed alliances in 2022 with organizations like Polygon, Push Protocol, EasyFi Network, QuickSwap, Technopak, Cere, and others.

Moreover, Trace distributed over \$1 million worth of rewards to its community through various campaigns, events, and engagements. In 2022, the company also received valuable coverage from global media outlets.

For Full Story: <https://ff.textiletoday.com.bd/trace-network-labs-hits-500k-revenue-2022/>



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## Z&Z Fabrics Ltd inaugurates fair price shop for workers

### Sayed Abdullah

Zaber and Zubair, a supplier of home textiles to major European retailers H&M and Lidl inaugurated a fair price shop, where workers and employees can buy their groceries at a lower price than the market.

This facility will make the livelihood of the workers convenient as they can buy quality products from the shop at a cheaper price.

On 10th February 2023 at factory premises. Zaber & Zubair Fabrics Ltd as a part of its CSR commitment to their large employee family has launched Fair Price Shop with the presence of Honorable Chairman & Managing Director, Noman Islam

and Carrefour GS Jean Daniel Gatignol, Managing Director, Karen Bedu -HR Director; Veronique Grevet -CRS Head and Honorable ED Marketing & Operations, Mohammed Rashed Mosharrof.

Z&Z, one of the best CSR factories in Bangladesh, has implemented modern management principles to guarantee a work environment that complies with social, environmental, and ethical standards for employees. In 2021 during Covid-19, Zaber & Zubair has given a bunch of Personal Protective Equipment (PPE) to the IBN Sina Hospital.



Figure: Z&Z Fabrics Ltd inaugurates fair price shop for workers.

The goal of Zaber and Zubair Fabrics is to provide all employees with a positive and productive work environment.

For Full Story: <https://ff.textiletoday.com.bd/zz-fabrics-ltd-inaugurates-fair-price-shop-workers/>

## Retailer H&M opens its 9th store in India

### Yeasin Miah

Fashion retail brand H&M India has announced the opening of its 9th store in New Delhi, at the Vegas Mall, Dwarka.

The store measures 1677 square feet, according to a statement from the business. The store offers a contemporary and pleasant shopping experience with the newest H&M collections for men, women, and children. It was designed using the most recent interior

design trends.

Additionally, as part of H&M's commitment to a more sustainable and circular future, offer the brand's Garment Collect initiative which will allow customers to bring unwanted clothes and textiles from any brand, in any condition to the store.

Regarding this, Yanira Ramirez, Country Sales Manager, H&M

India said, "We are incredibly happy to open our ninth store in Delhi. The reception in the city since our launch in 2015 has exceeded all our expectations and we will continue to bring fashion and quality at the best price to a city that has always been a source of joy."

H&M India now has a presence in 50 stores across 26 cities, along with a robust online presence.



Figure: Fashion retail brand H&M India has announced the opening of its 9th store in New Delhi, at the Vegas Mall, Dwarka

For Full Story: <https://ff.textiletoday.com.bd/retailer-hm-opens-9th-store-india/>

## Danish brand Ganni launches new athletic wear line

### Sazzad Hossain

Ganni has unveiled a new sportswear collection as part of its debut into the athletic apparel market. Ganni Sport, which is slated to make its debut in February 2023, will feature 30 high-performance athletic styles made entirely from recycled nylon and polyester, according to a press release. The Danish company's efforts in the sportswear industry, which have included market research through Ganni Klub and a limited-edition sports capsule release with Sense, are expanded upon.

The maker claims that several kinds have a microfiber construction that helps the body's natural cooling mechanism.

Leggings, shorts, tees, and t-shirts are among the essential



Figure: Ganni has unveiled a new sportswear collection as part of its debut into the athletic apparel market

items and distinguishing basics that make up its core collection, all of which have a distinctive 'Ganni twist.' This will contain, among other things, leopard bicycle shorts, cut-out dresses, and tracksuits with mesh logos.

Also, the collection will feature a fresh version of the brand's logo.

For Full Story: <https://ff.textiletoday.com.bd/danish-brand-ganni-launches-new-athletic-wear-line/>





## BIOTEX CT22

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