

# Innovations & Trends

Official Trade Show Magazine

APRIL 23—26

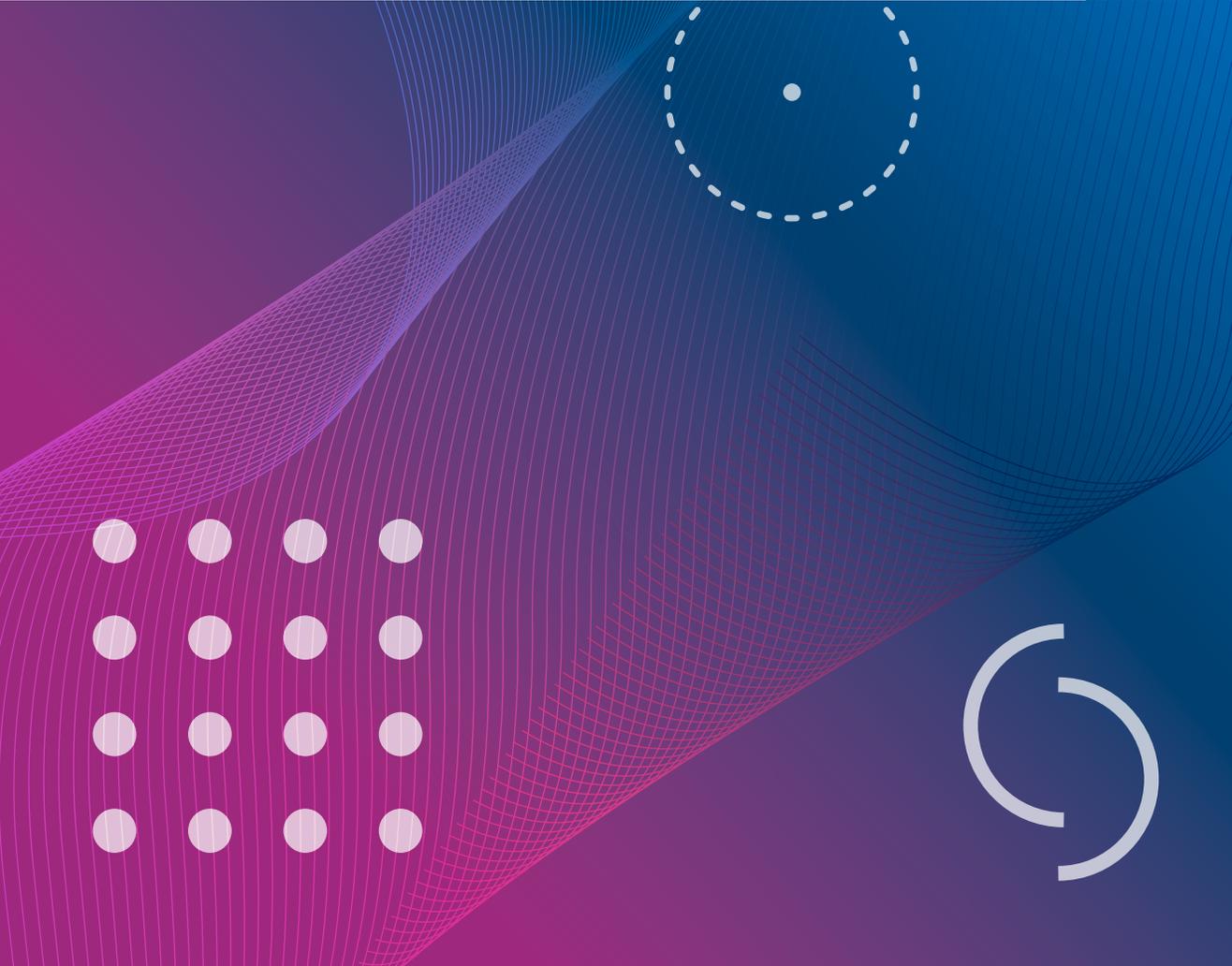
2024

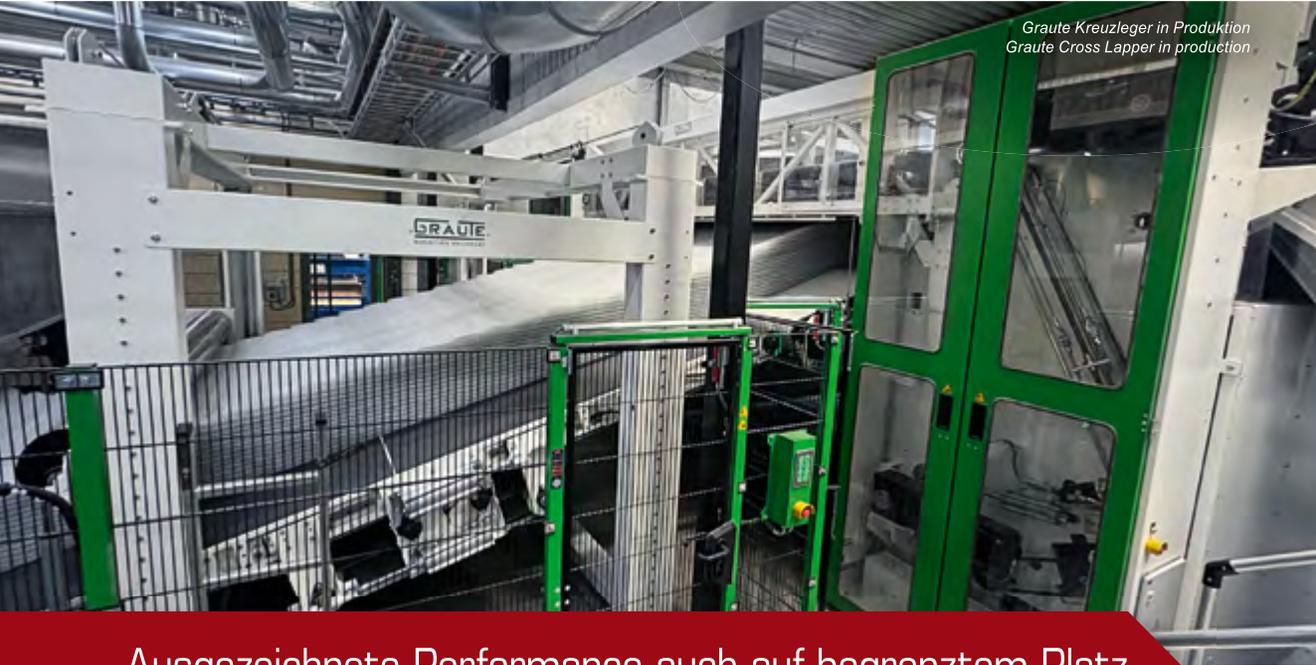
TEXTILE  
TECHNOLOGY

PUBLISHED BY  
TEXTILETECHNOLOGY

techtex

process





Graute Kreuzleger in Produktion  
Graute Cross Lapper in production

## Ausgezeichnete Performance auch auf begrenztem Platz Excellent performance even on limited space

Eine weitere Installation mit speziellen Anforderungen in Europa konnten wir kürzlich erfolgreich abschließen. Dank unserer individuellen Lösungen und innovativen Konstruktionen, konnten wir auf dem vorhandenen, eingeschränkten Platz Höchstleistungen erzielen. Grundlage bildet nach der Ballenöffnung unser **Mischwalzenöffner (CMO-W2)**, der eine sehr akkurate Mischung auch bei hohem Durchsatz gewährleistet und so platzraubende Mischkammern obsolet macht. Nach unserer leistungsstarken Krempel, bildet der Graute Kreuzleger das Herzstück dieser Anlage. Hier werden Vliese von bis zu 5.000g/m<sup>2</sup> mit einer max. Legehöhe von 1.100mm und hervorragenden CV-Werten produziert. Am Ende haben wir den Kunden begeistert und somit unser Ziel erreicht.

Überzeugen Sie sich selbst von unseren individuellen Lösungen und besuchen Sie uns auf der techtex in Frankfurt (Stand H12 B69).

Wir beraten Sie gerne.

Norbert Höltker  
Geschäftsführer  
General Manager

Phil Lau  
Vertriebsingenieur  
Sales Engineer

Leonie Höltker  
Vertriebsassistentin  
Sales Support

*We recently successfully completed another installation with special requirements in Europe. Thanks to our customized solutions and innovative designs, we were able to achieve maximum performance in the limited space available. The basis after the bale opening is our **Continuous Mixing Opener (CMO-W2)**, which ensures a very accurate mixing even at high throughput rates, making space-consuming mixing chambers obsolete. After our high-efficiency Card, the Graute Cross Lapper forms the centerpiece of this line. Here, nonwovens of up to 5.000g/m<sup>2</sup> with a maximum lay height of 1.100mm and outstanding CV values are produced. In the end, we impressed the customer and therefore achieved our goal.*

*Convince yourself of our customized solutions and visit us at techtex in Frankfurt (Stand H12 B69).*

*We will be happy to advise you.*

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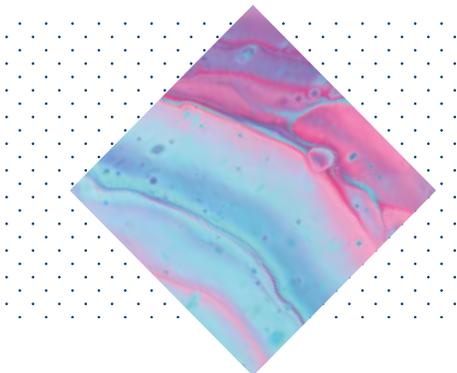
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# SUCCESS STARTS WITH KNOWLEDGE



## Textile Technology



## Paper



## Coating & Converting



## Packaging



## Market Research



## Environment & Sustainability



NEW!



NEW!





**Olaf Schmidt**  
Vice President  
Technical Textiles & Textile  
Processing  
Messe Frankfurt GmbH

MESSE FRANKFURT

# Worldwide number one for textile trade fairs

## Dear exhibitors and visitors,

The time has finally come for us to welcome you to Techtextil and Texprocess at the Frankfurt Exhibition Center. The 2 leading trade fairs are the industry meeting place and platform for pioneering innovations, new product developments as well as for digital and AI-driven technologies. As a stage, catalyst and source of inspiration, Techtextil and Texprocess reflect the market and set the tone for the future: for 4 days, they offer the global textile industry dialogue, knowledge transfer, unique innovations and textile solutions. Digitalization and sustainability are more in demand than ever before. It is important to keep an eye on current market developments and to make your own company sustainable, fit and competitive for the future. Benefit from the offers available on site – here you can keep a finger on the pulse of time, discover groundbreaking innovations and meet business partners from all over the world!

Techtextil and Texprocess complement Messe Frankfurt's worldwide Texpertise Network with more than 50 international textile trade fairs in 13 countries. With its unique portfolio, Messe Frankfurt is the global market leader for textile expertise and the leading trade fairs in the textile industry. The trade

fair program covers the entire textile value chain: From research and development, technologies for cleaning, processing and recycling, through technical textiles, fibers, yarns and fabrics, to apparel and fashion, home and household textiles. Texpertise Network connects over 500,000 industry participants from all over the world and includes global events such as Intertextile Shanghai, Texworld Paris, Heimtextil Uzbekistan, DS Printech China and Apparel Sourcing Addis Ababa. The network is constantly expanding to include relevant markets: new additions to the portfolio are VIATT in Ho Chi Minh City and Kingpins in New York and Amsterdam. With our Texpertise Network, we want to accelerate innovation and change in the textile and fashion industry and drive sustainable development. To this end, "Econogy" creates visibility, transparency and orientation on the topic of sustainability in the textile industry across all trade fairs and unites the global sustainability activities of Messe Frankfurt's Texpertise Network.

For the coming days, I wish you an inspiring, outstanding and successful trade fair experience and welcome you to Frankfurt.



**Sabine Scharrer**  
Director Brand Management  
Technical Textiles &  
Textile Processing  
Messe Frankfurt GmbH

MESSE FRANKFURT

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# The future of the textile industry firmly in sight

**Dear industry participants, welcome to  
Techtextil and Texprocess – the place to  
be for the global textile industry.**

For 4 days, the international industry meets at the Frankfurt Exhibition Center and looks towards the future. The 2 world-leading trade fairs are the international networking platforms, sales channels as well as the industry hotspots for textile solutions. With over 1,600 exhibitors from around 50 countries, they reflect the innovative strength and future of technical textiles, textile manufacturing and processing technologies. Techtextil has the

highest number of exhibitors in its history and takes place for the 20<sup>th</sup> time this year. This is a strong signal, and we thank the industry for the trust it has placed in us over many years. The strong demand from the market, the high level of internationality and the outstanding degree of innovation emphasize the relevance of both events – ideal conditions for the coming trade fair days!

The global textile industry is constantly changing and is currently facing numerous challenges – due to consolidation, a shortage of skilled labor, inflation, rising energy costs, climate and geopolitical crises. In addition, there are rapid advances in digitalization and AI technologies as well as demands for sustain-able production and trade. The world's leading trade fairs specifically address the needs of the industry, provide answers and solutions, bring together supply and demand and connect all relevant market players in an ideal setting.

As an innovation hub, Techtexsil presents a unique variety of textile products in 12 application areas. Companies often present their new technological developments and materials to an international audience for the first time. Texprocess stands for the passion for production and processing – and is the international platform for the latest machines, processes, and services for the manufacture of garments and textile materials. This year's editions have exciting highlights in store for you: The focus is on sustainable solutions along the entire textile value chain. Automation, digitalization and sustainability are the main themes running through the exhibition halls. Our Econogy label provides the best orientation for sustainable offerings: It creates transparency across all trade fairs and identifies exhibitors with sustainability certificates for resource-saving products or processes. You can find all companies with a sustainable offering in the Econogy Finder for Techtexsil and Texprocess. Another tip: Take advantage of our Econogy Tours to get to know selected exhibitors, walk around the trade fair with sustainability experts and gain first-hand knowledge.

You can also look forward to well-known, high-quality formats such as the Techtexsil Innovation Award and Texprocess Innovation Award, where the future of the industry is reflected in pioneering innovations relating to digitalization and AI, sustainability and new materials and processes. Stay up to date in the Techtexsil Forum and Texprocess Forum: Experts from industry and research share their valuable know-how and invite you to exchange ideas and engage in discussions. We also have a strong focus on promoting young talents: Start-ups and young professionals get an eye-catching platform at the 2 leading trade fairs in their search for future business partners. Our inspiring special areas are just waiting to be discovered: At Techtexsil, Performance Apparels on Stage demonstrates the functionalities of technical textiles in the apparel industry. In the Nature Performance area, manufacturers show what natural fibers can do and where they are used. Another highlight: the special presentation Future Materials with innovative materials curated by the renowned trend and



**“As an innovation hub, Techtexsil presents a unique variety of textile products in 12 application areas.”**

—— Sabine Scharrer

future agency FranklinTill. The special shows Econogy Best Practice: Fibers & Yarns and Textile Materials focus on sustainable, reusable and recycled materials. And, do not miss: The Denim Talks at Texprocess put the spotlight on the future of the denim industry – from innovative technologies for denim production to circular recycling strategies.

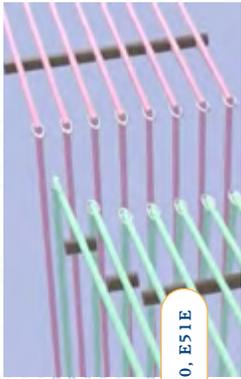
As you can see, there is a lot to discover. We wish you a trade fair experience with groundbreaking impulses, stimulating discussions, personal encounters, valuable (new) contacts and successful business deals.



## Tailr

Tailr is a cloud-based platform solving the issues of inconsistent fabric, production and sizing. It facilitates seamless real-time data exchange among design teams, fabric mills, and factories, guaranteeing up-to-the-minute production information. The Tailr AI assist analyses up-to-the-minute data from suppliers and assists brands in ensuring designs are ready for production.

By optimizing production, it cuts sampling time, ensures garments are delivered to specification and maintains uniform sizing across seasons curbing size related customer returns.



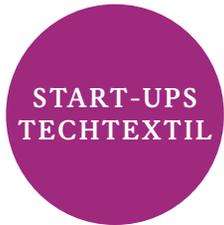
## Casmue

Double-weave, spacer fabric, filling-on-the-fly, 3D/4D, damasque or jacquard style, while using sticky, loose, brittle, fluffy or still hardening/curing material – all realized by the invention V-Loom by Casmue.

Reducing complexity enables to produce a comprehensive range of products. The V-Loom technology uses no shafts at all, hence the shed is a pocket, not a narrow tube.

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# The innovators of tomorrow's textile industry



START-UP  
STARS

This is where both exhibitors and visitors can connect with young, dynamic companies that are helping to shape tomorrow's textile industry: In the areas devoted to "Textile Production" (Hall 12.0) and "Functional Materials" (Hall 9.1) at Techtextil, international start-ups present their innovations and business solutions with the aim of gaining partners and making new contacts.



Titanium  
Textiles

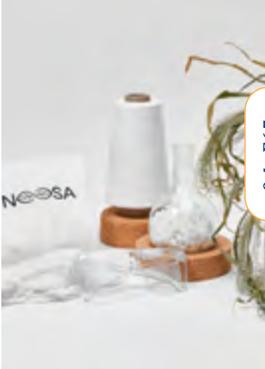
The company develops and manufactures elastic mesh implants made of pure titanium for medical applications. The Tisilk product portfolio is a next generation of elastic implants based on pure titanium and unsurpassed biocompatibility. The special feature of the technology is the unique symbiosis of titanium micro-wires

and state-of-the-art technical textile manufacturing. This integration seamlessly blends the unique properties of titanium with elastic textile structures.

The mission is to enhance the success of surgical procedures and the overall quality of life for patients across the globe.

## Noosa

The company produces a circular textile fiber from bio-renewable materials. The fiber is 100% recyclable thanks to a patented technology, to revalorize textile waste without compromising on performance or quality, and this endlessly.



## Robro Systems

The start-up is a provider of AI vision-based solutions, empowering customers to achieve very good quality control and operational efficiency across diverse industries. With its advanced AI vision systems, manufacturers benefit from up to 100% defect detection, precise and high-speed counting, and accurate inspection and sorting of parts. The Production Insights Platform, equipped with cutting-edge computing technology, delivers real-time and recorded data analytics, enabling informed decision-making for enhanced productivity.

## Recyc'elit

The start-up works on giving an endless life to end-of-life complex polyester-based textiles. Thanks to a patented 100% circular separative recycling technology it recycles virgin quality PET resin and recovers separated co-materials for recycling.



## Nuvi

Nuvi stands for Nouvelle Vie – a new way of living where beauty and quality go hand in hand with sustainability and ethics. The “material innovator” provides scalable, plastic-free solutions for a wide range of applications. The 100% bio-based materials offer a measurable positive impact on supply chains and are made from regionally sourced, abundantly available plants and minerals, each reflecting the unadulterated characteristics of nature. The highly customizable materials are produced roll-to-roll on standard textile machinery.

## Revoltech

LOVR is an acronym that stands for leather-like, oil-free, vegan, and residue-based. This vegan material can be used as a substitute for leather in various industries such as footwear, furniture, fashion and automotive. It is made from residual fibers from industrial hemp cultivation. Unlike faux or vegan leathers, it does not contain any petrol-based products. The material is completely circular since it is compostable and recyclable, and it can be produced carbon neutrally (cradle to gate).



12.0, E51B

12.1, B41C

12.0, E51A

9.1, E63

8.0, C61C



## Esenca Digital Workwear

The Romanian start-up operates artificial intelligence for digital size measurement and clothes size recommendation. The size measurement of the entire human body, feet and hands leads to a better fit of clothing, shoes and gloves in the workwear sector, in health clothing and in the uniform sector.

START-UPS  
TEXPROCESS

# International innovations and solutions

START-UP  
STARS

“Textile Processing Technologies” (Hall 8.0) at Texprocess - that is where international start-ups present their innovations and business solutions with the aim of gaining partners and making new contacts.

## thullex

The German company thullex is specialized in digital solutions for the fashion industry. Finished measurements and quality control within seconds based on computer vision and an industrial camera enable manufacturers to work in a completely new way. With the digitalization of quality control, they aim to be the driving force for a customized and resource-saving fashion world of tomorrow.



8.0, C59A

## Aisten Lab Technology

The Brazilian start-up Aisten is focused on developing advanced technological solutions for automating processes in the sportswear sector. The portfolio includes specialized tools for efficient order list management, as well as advanced platforms for 3D sports uniforms simulation, allowing for accurate and personalized product visualization. The mission is to transform and optimize the way sports brands design, produce, and manage their products, offering integrated solutions that meet the specific needs of the industry.



8.0, C61A

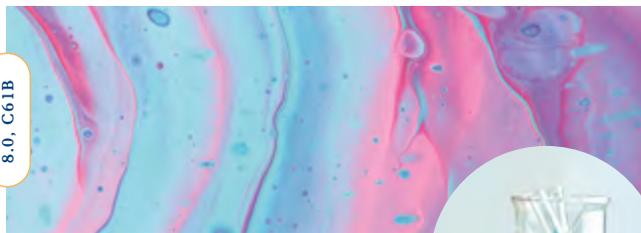
## Artitex

The German start-up digitizes every workstation in a sewing line with smartphones, using mobile apps and cloud technologies. The company offers highly scalable solutions ranging from simple time studies to the complete digitization of large sewing factories, relying on state-of-the-art Data Science technologies and Artificial Intelligence.

Under the motto "affordable, simple and fast", SaaS products are offered for real-time monitoring, production optimization and quality control in the textile industry, which can be extended by individualized adaptations and interfaces. Individual implementation and consulting services are provided, too.



8.0, C59B



8.0, C61B

## Colorkim Kimya Sanayi

Colorkim is a young and dynamic chemical company, that has the aim of changing the traditional processing of textile materials by supplying innovative textile dyes, special chemicals, application processes, and analytical testing tools. From sustainable sources of raw materials to sustainable textile materials, the start-up has developed a new range of natural textile dyes for the sustainable and totally clean industrial coloring of textiles.



**Michael Jänecke**

From 1992 to 2022 Director  
Brand Development  
Technical Textiles &  
Textile Processing

Messe Frankfurt GmbH

TECHTEXTIL

# 20<sup>th</sup> Techtextil

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**This year, Techtextil is celebrating its 20<sup>th</sup> anniversary. You have been there from the very beginning. How do you remember the first few years?**

With 195 exhibitors – that's how the 1<sup>st</sup> Techtextil started in 1986. The company, where I was working at that time, was there as a visitor. More than 1,600 exhibitors from around 50 countries are taking part in this year's anniversary edition together with Texprocess. This shows that Techtextil is still celebrating an absolute success story as the leading trade fair for technical textiles and nonwovens. Of course, the start was not easy – all beginnings are difficult. But over the years, the trade fair has continued to develop conceptually, has responded to the needs of the industry and has orientated itself to the market. In the 1980's, a number of new products came out of the industry that we take for granted today. These included airbags and geotextiles for road construction. Two examples that show how different the areas of application and therefore also the clients of exhibitors and Techtextil are. This results in one of the biggest challenges of the trade fair:

The clients and trade fair visitors come from almost all sectors and need to be addressed in very different ways. This was the starting point for the user-orientated concept.

**The variety of textile solutions and products is unique worldwide. What role did the user-orientated concept play in this?**

Visitor target groups can experience an extraordinary range of products in 12 application areas. These are used in a wide range of industries – from automotive to fashion, medicine, sport, and construction. The application areas were defined together with industry experts and were successfully applied for the first time for trade visitor marketing at Techtextil 1997 – a very important milestone. What was not to be expected: the categorization was adopted by the industry – in company brochures, association membership directories, market studies and in the trade press. To this day, the 12 application areas are still used in the international industry. At the same time, Techtextil is the only trade

fair in the world to cover the entire value chain of the technical textile industry across all materials and technologies. Thanks to this combination of product range and marketing, Techtexsil has grown continuously: by the number of exhibitors, the size of the exhibition space, more trade visitors and greater internationality. But for me, quality has always been more important than quantity. And this was consistently rated highly by everyone involved. This resulted in another milestone in 2005: the 11<sup>th</sup> Techtexsil counted over 1,000 exhibitors for the first time.

## **What is Techtexsil's recipe for success – how did it develop into the international industry event it is today?**

The markets for technical textiles are growing worldwide. More and more companies from the traditional clothing and home textiles industry are investing in technical textiles. Techtexsil was and is a partner to the sector, characterized by a consistently constructive and fair exchange with industry, associations, the media and politics. This has resulted in projects such as the General Secretariat of the Textile Architecture Working Group, participation as a dissemination partner in several EU projects and the politically flanked special events "High-Tex from Germany" at Techtexsil trade fairs abroad. With its user-orientated concept, Techtexsil has also become the driving force behind our international events. Since 2011, Texprocess, the leading trade fair for the processing of textile and flexible materials, which takes place at the same time, has experienced great expansion. This is complemented by an attractive program of lectures, the presentation of innovation awards and competitions. Innovative, interdisciplinary, and international – this is what Techtexsil has always stood for, just like the industries it brings together in Frankfurt am Main every 2 years.

## **What has been driving you all these years?**

I once heard that over 70% of innovations have not even been developed yet. This is exactly what I still love about technical textiles today: their outstanding innovative strength, versatility, and future viability. The possible applications of technical textiles are fascinating and endless at the same time! Companies often present the latest developments in fibers and yarns, nonwovens, composites, coated

textiles, functional apparel textiles and technologies to the public for the first time at Techtexsil. This power, this high degree of innovation and the close interdisciplinary dialogue are drivers for new developments in the international industry. From the very beginning, the leading trade fair has taken a strong look at the future of the textile industry, most recently with special events such as "Living in Space" (2017) and "Urban Living - City of the Future" (2019). Techtexsil has always honored outstanding developments with the Innovation Award. It often takes years for a marketable product to emerge. Techtexsil shows how diverse technical textiles are used, how relevant they are for numerous industries and what an enormous contribution the technical textile industry makes to life today and tomorrow.

## **You have worked in the industry for over 40 years. How do you look back on this time?**

I have spent my entire professional life in the technical textile industry, including over 30 years at Messe Frankfurt alone. I have always enjoyed being part of this exciting industry and Techtexsil as its platform and mirror. I look back proudly on all these years: During this time, I have made many valuable contacts, always learnt something new, seen new exciting materials, products and technologies and established Techtexsil trade fairs worldwide together with my colleagues and partners on site. The personal encounters with people from all over the world have always inspired and motivated me. These contacts and the enormous innovative strength were and are the base for numerous inspirations and impulses that contribute to the success of Techtexsil.

I am grateful that I have been able to accompany and help shape a large part of the development of this leading trade fair – and that today I can observe how it is constantly evolving. None of this would have been possible without the support and trust of the industry, my team and my international colleagues. I am very grateful for that. I am excited to see what world-changing innovations will be presented at Techtexsil and how technical textiles will continue to shape and revolutionize the future of many industries.

I wish everyone involved a successful anniversary Techtexsil – and stay fascinated!



TEXP ROCESS

# Technology designs the future of textile processing



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15



**Elgar Straub**

**Managing Director**

VDMA Textile Care, Fabric  
and Leather Technologies

Manufacturers of textile processing machines are facing major challenges, as are their customer industries. Constantly changing consumer and legislative requirements, labor short-ages, continuous relocation of production and ever new global developments such as the decoupling of trade relations are just a few examples. These challenges require innovation, a willingness to adapt and the ability to constantly rethink business models. Innovative technologies in textile processing are transforming traditional manufacturing processes. From the design phase through to production, advances in areas such as artificial intelligence, 3D printing and more sustainable production processes will shape

the industry in the future. Artificial intelligence, for example, can be used to analyze trends in seconds and make predictions about future designs.

## Automation and digitalization

Automation and digitalization are playing an increasingly important role in textile processing. From automated fabric cutting to robot-controlled sewing technology, these technologies enable greater precision and efficiency in the processing of textiles. This not only increases efficiency and lowers production costs, but also leads to a reduction in

errors, energy consumption and waste, as well as an improvement in working conditions for employees. Manufacturers of textile processing technologies already offer flexible machines that drive innovative production processes and enable seamless integration into digitally automated, self-controlling production lines.

## Flexibility and adaptability

Consumer demand for individual products, such as customized clothing, furniture, or car interiors, continues to grow. Demand for sustainable products is also on the rise. On the other hand, e-commerce is becoming more and more popular and fast fashion brands are increasingly relying on online retail. Garment manufacturers have to adapt to ever faster, but also more sustainable production cycles. Accordingly, the demand for flexible, digital, and sustainable technologies and machines is increasing in order to meet the rapidly changing requirements of consumers.

## Sustainability

The entire textile industry is in the spotlight of the sustainability debate. The production of garment and textiles has a significant environmental footprint, ranging from the use of water and energy to the disposal of waste. Consumers and politicians are demanding more transparency regarding the origin of the materials used and the working conditions in the supply chain, as well as ethical working conditions and fair wages. The textile processing industry therefore faces the enormous challenge of completely rethinking its production processes and implementing not only more flexible, but also more sustainable methods and materials.

There is increasing pressure from both politicians and consumers to integrate more sustainable products and materials into production processes along the entire supply chain in order to minimize the carbon footprint, for example. The promotion of circular economy concepts, in which products are recycled or reused at the end of their life cycle, is also rapidly gaining in importance. This not only reduces waste, but also reduces the need for new raw materials.

## Strong demand for German technology in the EU

In 2023, the 3 most important customer countries for German technology and machines for textile

**“The production of garment and textiles has a significant environmental footprint, ranging from the use of water and energy to the disposal of waste.”**

——— Elgar Straub

processing were within the EU. Machines worth €48.4 million went to Italy, machines worth €42.8 million to France and machines worth €33 million to Poland. The most important customer countries outside the EU in 2023 were the USA with deliveries worth €40.9 million and China worth €31 million.

## Texprocess – the leading international trade fair for the textile processing industry

Texprocess offers an ideal platform for manufacturers of garment technology and machinery for processing technical textiles to present their innovations to an international audience. On the visitor side, garment manufacturers and processors of technical textiles will find precisely the solutions they need at the leading technology fair in Frankfurt to meet the new requirements mentioned above in the coming years.

Technology plays a decisive role in shaping the future of textile processing. Technology manufacturers are already able to adapt quickly to the changing needs of customer industries and develop innovative solutions to meet the increasing demands for automation, flexibility, sustainability, quality, and greater product capability. This keeps the industry on track for an increasingly digitalized and individualized future.



FUTURE VISION

# Sustainability as a driver of innovation

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**Techtextil and Texprocess promote sustainable action and production in the global textile industry. They present future-oriented solutions, research and innovative approaches – from sustainable functional materials and their production as well as recycling processes to generate resources.**

Sustainability is becoming increasingly important in all fields of application for technical textiles and textile technologies. For this reason, Techtextil and Texprocess set a special focus on this future-oriented topic.

## **Econogy for a sustainable textile future**

Under the title “Econogy”, the sustainability activities of Messe Frankfurt’s Texpertise Network provide orientation internationally and across all

trade fairs. The term „Econogy“ combines Economy and Ecology in one word and shows how decisive sustainability is today for the economic success of a company. Econogy creates transparency and comparability and standardizes evaluation criteria for resource-saving products, processes and exhibitors at all Messe Frankfurt textile fairs worldwide. To this end, Messe Frankfurt works together with independent, external sustainability experts to take account of the latest approved seals and certificates, and to integrate the Sustainable Development Goals into the checks.

## Econogy Finder: visibility for sustainable products

The Econogy Finder at Techtexstil and Texprocess lists certified suppliers of sustainable products. This enables visitors to find them directly – via the online exhibitor search or by the label at the trade fair booth.

## Econogy Talks & Tours

The Econogy Talks offer an ideal space for a joint exchange on sustainable solutions and the Econogy Tours enable visitors to gain first-hand knowledge from selected exhibitors with sustainable products. The topic of sustainability is also reflected in the multifaceted lecture program of the trade fairs.

## Econogy Best Practices

The special shows Econogy Best Practice: Fibers & Yarns and Textile Materials focus on sustainable, reusable and recycled materials. The relevance of sustainability and the scarcity of resources is increasing. Recycling and technologies for textile recycling are therefore becoming increasingly important. Unique development and innovation potential can be seen in recyclable and recycled materials. The juried special shows “Best practice samples of recyclable & recycled fibers & yarns” (Hall 9.1) and “Best practice samples of recyclable & recycled textile materials” (Hall 12.1) put these in the spotlight. In addition, numerous exhibitors from both trade fairs will be presenting their latest recycling technologies.

## Nature Performance: sustainable experts

Can nature and performance come together in one fiber or material? Of course! A separate area is dedicated to these promising products in the Fibers & Yarns product segment. Here, manufacturers show what natural fibers can do and in and in which diverse application areas they are used.

Another highlight is the special presentation Future Materials with innovative materials curated by the renowned trend and future agency FranklinTill.

## Campus & Research: partners for your research projects

Research institutes and universities drive international research and train qualified new talents. Learn more about the relevant research results and



**“The special shows Econogy Best Practice focus on sustainable, reusable and recycled materials.”**

exchange information on current topics and the latest courses of study. Find suitable partners for your research project here.

## SDG Report: textile fairs promote the Sustainable Development Goals

The Texpertise Network of Messe Frankfurt has published its first SDG (Sustainable Development Goals) Report. It summarizes its global commitment to achieving the Sustainable Development Goals in the context of its textile trade fairs worldwide, and provides an outlook on further planned measures and goals. At the same time, the SDG Report serves as an incentive for the Texpertise Network to continue its commitment to the Sustainable Development Goals.

# Exhibitors on Stage



**Great companies! Great speakers!  
Great audience!**

**Don't miss it and enjoy insights and new input  
from different key players of the industry.**

## **Sneak peak:**

**Sustainable and digital on the  
way to efficient and climate-neutral  
textile finishing**

Alexander Mandel, Sales Director,  
Brückner Trockentechnik GmbH & Co. KG

**Nonwovens Production  
Optimization: Success Strategies  
for Production Performance,  
Quality and Energy Efficiency for  
Thermal Systems**

Michael Niklaus, Sales Director +  
Head of Development & Engineering,  
Autefa Solutions Germany GmbH

**Low VOC, formaldehyde, and  
ammonia free binder with high  
performances**

Daniele Zimmermann, Technical  
Service Manager Consumer Materials -  
Europe, Synthomer Germany GmbH

**Sustainable spray finishing  
for technical fabrics**

Matthias Hofmann, Key Account Manager  
Textiles and Nonwovens, WEKO Weitmann &  
Konrad GmbH & Co. KG

**Novel polyurethane reactive  
hotmelt adhesive technology  
for high-speed lamination**

Mireia Diaz, Business Development and  
Innovation Director, Morchem S.A.

**Cyber security – how to protect  
your freedom to grow**

Falk Vespermann, Global Segment  
Manager Textile & Denis Göllner, Product  
Manager System & Security, Lenze SE

**Knitted e-textiles & wearables -  
discover a world of fascinating  
possibilities**

Michael Schneider, Managing Director,  
Born GmbH



**And many more...**

# Leading international trade fair for technical textiles and nonwovens

techtexsil

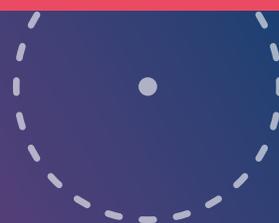


## Techttextil Topics

Techttextil Forum **Page 21** | Techttextil Innovation Awards **Page 22**  
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**Halls**  
**9.1**  
**11.0 & 11.1**  
**12.0 & 12.1**



Textile Machinery



# Visit VDMA Group Stand

## Hall 12.0 C55 + C56

Techtextil Frankfurt, 23 – 26 April 2024

[industryarena.com/m4t](https://industryarena.com/m4t)





BEYOND INNOVATION

# Techtextil Forum 2024

**On the stage of the 20<sup>th</sup> edition of Techtextil, the Techtextil Forum takes innovative approaches to the textile future - from AI to circularity. The Forum has proven to be an interesting knowledge and networking hub.**

Digitalization, sustainability, supply chains, alternative materials, process optimization and the circular economy: what are the latest research findings, technologies and innovations? And what trends and solutions are driving the global textile industry? The lecture program of the Techtextil Forum provides insights into key topics of the industry. Renowned experts from industry and research share their valuable expertise and invite visitors to exchange ideas and engage in discussions.

**The Techtextil Forum in Hall 9.1, E70 offers around 50 presentations and discussion panels on all 4 days of the trade fair.**

## Varied themes

- Innovative materials & applications
- Sustainable and circular materials and technologies (recyclability, traceability, carbon neutrality, etc.)
- Biobased functional materials
- Digitalization, AI & production technology
- Intelligent textiles

## Tuesday, April 23

On the first day, April 23, 2024, the focus is especially on recycling and circular economy, but also on sustainability, e.g., PFC-free durable water repellent materials.

## Wednesday, April 24

On the occasion of the 20<sup>th</sup> Techtextil, the “**Honoring of the Founding Exhibitors**” will be one highlight on Wednesday, April 24 at **9:00** a.m. In the afternoon (**13:00 – 17:45**), developments in sustainable and functional textiles are on the agenda.

## Thursday, April 25

On Thursday, April 25 at **16:00**, **Judith Bosch** (Textile ETP) will lead a guided tour of “SmartX”. The newest advancements in high-performance fibers and wearable technology will be shown. The meeting point is **Hall 11.1, C51**.

The presentations on this day, from **9:30 to 17:15**, will cover topics ranging from bio-based materials as well as eco-friendly and resource-efficient technologies to the calculations of the product’s carbon footprint as well as artificial intelligence.

## Friday, April 26

“AddTex: A holistic approach fostering the digital and green transition of EU Textiles” will be presented on Friday, April 26 at **11:30**, by **Stefan Schmidt** (IVGT).



**Here you can find the complete program 2024**

SPECIAL EVENT

# Techtextil Innovation Awards 2024



Once again, outstanding new and further developments of technical textiles, nonwovens and functional apparel textiles are honored with the Techtextil Innovation Awards.

22  
23

The innovations selected by an international jury of experts are presented in a special show during the fair. The Techtextil Innovation Awards 2024 will be presented in an official ceremony on the opening day on **April 23 at 12:30 in Hall 9.0, B88** at the stage of the Texprocess Forum.

The awards are an ideal platform for presenting cutting-edge research, products, and technologies tied to the textile industry. Independent expert juries chose the topmost and smartest advancements.

## These are the Techtextil Innovation Awards 2024:

### New concept

- LOVR – Revoltech GmbH
- 3D textile lattice girder for sustainable production of lightweight carbon concrete precast elements – Institute for Textile Machinery and Textile High-Performance Materials Technology at the TU Dresden (ITM)

### New technology

- AGXX – The innovative antimicrobial technology – Heraeus Precious Metals GmbH & Co. KG
- LunaMicro's active moisture-pumping textile – Luna Micro AB

- Self-cooling textiles – energy-free method using radiative cooling technology – German Institutes of Textile and Fiber Research Denkendorf (DITF)

### New technologies on sustainability & recycling

- Hydro-shape – 3-dimensional textile structures formed from water – Norafin Industries (Germany) GmbH
- High-performance insulation textiles made from cellulose aerogel fibers – SA-Dynamics (Start-up of Institut für Textiltechnik of RWTH Aachen University)

### New product

- Smart Roofs System (SRS) – Advanced smart roofs system comprises a thermally reflective liquid water-based waterproofing membrane and a smart textile reinforcement structure based on recycled fibers – CITEVE Textile Technology

### New approaches on sustainability & circular economy

- Debonding of welded thermoplastic textile reinforced composites by induction heating – H2020 Helacs grant agreement No 101007871 – Centexbel-VKC



**Techtextil Innovation Awards**  
special show: Hall 9.1, E91



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techtexsil

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H 12.0 – B39

23.–26. 4. 2024  
FRANKFURT/MAIN

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Biella Shrunk Process

## Washing solution with reduced water consumption

Biella Shrunk Process will present Kinetika, a dynamic washing solution suitable for all types of fabrics. The peculiarity of this new system is that it treats the fabric, conveyed by a pair of permeable belts, through 4 washing sections consisting of 700 high-pressure fluid jets. With Kinetika it is possible to create compact modular process lines with reduced water consumption.

STAND | 12.0, C51 ←



Kinetika is used for the processing of particularly fine and delicate fabrics and for high-density fabrics.

TECHTEXTIL

# Preview

26  
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27

AMohr Technische Textilien

## Focus on elastic conductive tapes

STAND | 12.1, A43 ↶

In the field of Smart Textiles, AMohr Technische Textilien ensures reliable products, used in pressure sensors in mechanical engineering, strain sensors for infrastructure or wind turbine blades and activation elements in sportswear or workwear. The company has been actively involved in various R&D projects. Elastic conductive tapes with integrated inelastic contacting zones are a development focus.



Demonstrator of a navigation belt by feelSpace, DITF and AMohr



Biotex Malaysia

## PFC-free water repellent with high durability

Biotex Malaysia will present its new durable PFC-free water repellent technology Bioguard Zero, that is based on smart raw material, such as recycled raw materials. This allows companies to reduce their CO<sub>2</sub> footprint when using this eco-friendly, highly durable technology. Biotex Malaysia is determined to completely eliminate the use of ecologically harmful fluorocarbons (PFC/PFOA) from its technical textile repellents.

STAND | 11.0, B10 ↩

Coatex Technology

## New PTFE/silicone coated fabric and PTFE conveyor belt

Coatex Technology showcases a technological modified PTFE/silicone coated fabric for the thermal insulation industry and a film laminated PTFE conveyor belt for the food industry. The new cast film PTFE conveyor belts offer high performance, with high-temperature resistance, good friction, oil, and corrosion resistance. These features ensure stable performance and extended lifespan in food processing operations.

STAND | 11.0, F69 ↩



Coatex will show its newly developed products for thermal insulation and the food industry.

Daikin's fluorine-free products are used in various textile applications.



Daikin Chemical

## Non-fluorinated water repellents

For 50 years, Daikin Chemical Europe is developing water and oil repellents for the textile industry. Under the name Unidyne XF, the company provides non-fluorinated water repellents that are made from more than 50% bio-based materials. Unidyne XF products are used in various textile applications such as sportswear, filtration, workwear, home furnishings, military, and outdoor fabrics.

STAND | 11.0, B80 ←



Autefa Solutions supports the principles of the circular economy.

**Autefa Solutions**

**Innovations with a focus on sustainability**

The sustainable use of resources is a key challenge. Autefa Solutions will present innovations in non-wovens technology with a focus on sustainability, including energy efficiency, fiber selection, life cycle management and emission reduction. The company offers needle punching lines, aerodynamic web forming lines, spunlace and thermobonding lines. The aerodynamic web forming machine Airlay V21/R – K12 is the versatile solution for various recycling possibilities. The aerodynamic principle ensures a 3-dimensional fiber orientation and total randomization.

STAND | 12.0, C77

**Cetex**

**Lab spinner and bending stiffness measuring device**

With the LSE 2000-2, the Cetex Institute offers a modern, multifunctional lab spinner in which a variety of additional equipment is integrated. The machine operates according to the ring spinning principle and processes staple fibers made of cotton, wool, man-made fibers and their blends. The basic machine can be equipped with 3 different interchangeable drafting systems.

Furthermore, Cetex provides the revised ACPM 200P bending stiffness measuring device for automated testing of the bending stiffness of flexible samples made of paper, textile surfaces and films. ACPM 200P works according to a measuring method with parallel measured value acquisition.

STAND | 12.1, C50/C50B



The LSE 2000-2 is designed for processing staple fibers made of cotton, wool, man-made fibers and their blends.

**Datatex**

**Specialized management software for the textile industry**



Datatex Now ERP is flexible, with a modular approach to accommodate different textile business processes.

Datatex presents the management software Now, that is suitable for textile companies of all sizes. Now addresses key issues in the textile industry, including traceability, ensuring a complete overview of the supply chain. It enables monitoring at every stage of production, from the cultivation of raw materials to the distribution of finished products, promoting transparency and ethical, sustainable practices. The system gives customers the freedom to start with the modules they need and integrate additional modules as their business grows.

STAND | 12.1, A45

28  
29

Davy Textiles

# High-performance fibers for challenging environments

Davy Textiles has expertise across a broad range of synthetic and technical fibers and yarns. The company's high-performance fibers are utilized across some of the most complex and challenging production environments, leading to their use in a wide variety of applications and industries. Key industries include automotive, filtration, acoustic insulation, aviation, sports equipment, construction, filling, spinning, plastics, PPE, protective apparel, composites, gaskets, marine, cables, body armor, thermal insulation, and equestrian.



Fibers by Davy Textiles are used in a wide variety of applications and industries.

STAND | 9.1, A04



In a Multimode plant, all production parameters can be permanently visualized and recorded.

STAND | 12.0, C55C

Dienes

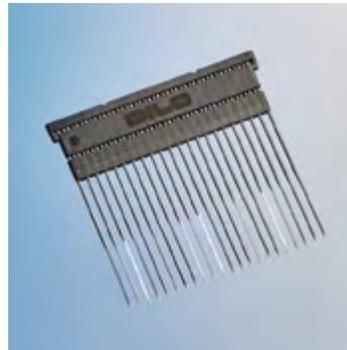
# Digitalization and sustainability topics

Dienes will present its approach towards digitalization which is called Multimode. In a Multimode plant, each process step is represented by a module which can be individually adapted to customer-specific requirements. The production lines consist of several intelligent modular units which can be exchanged and rearranged at any time. Moreover, all production parameters can be permanently visualized and recorded, enabling a complete traceability of the process.

Dilo Group

# Demonstration at technology center

On April 25, the Dilo Group will organize a demonstration of its recent technology and machine developments at the company's headquarters in Eberbach. The following technologies will be demonstrated: the Micropunch intensive needling line, the 3D-Lofter (Isofeed unit) for additive manufacturing in the nonwovens field, the Hypertex line for specialty filtration media, the Di-Lour IV high-speed Di-Lour unit, and a complete web forming line from ITMA 2023. A Dilo bus shuttle will be available to pick up interested parties.



Hypertex line for specialty filtration

STAND | 12.0, B81



The ECP Division of IPG presents Nova Shield.

ECP Division

## Sustainably certified and PVC-free membrane structure fabric

The ECP Division of Intertape Polymer Group (IPG) presents the sustainably certified and PVC-free membrane structure fabric Nova Shield. The material is characterized by its longevity, made possible by its proprietary Armor Kote technology, that enhances fabric resilience against abrasion, chemicals, and UV radiation. With an up to 20-year warranty on its fabric structures, Nova Shield stands for durability and reliability and enhances the lifespan of its products.

STAND | 12.0, A39 ←

Emtec

## Innovative measuring device

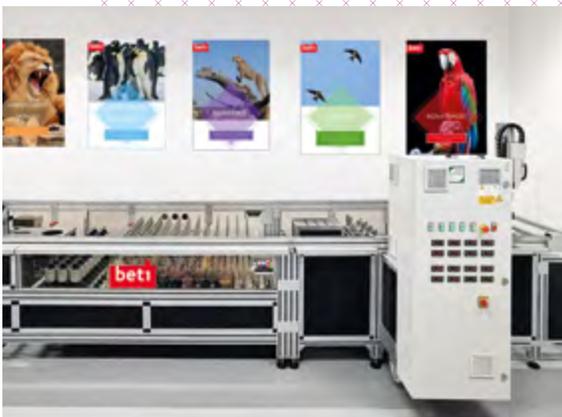
Emtec shows how the combination of the TSA Tactile Sensation Analyzer with the digital database can help to minimize the CO<sub>2</sub> footprint. The TSA determines an objective number on the way a fabric subjectively feels to the touch. Combined with the cloud-based Virtual Haptic Library, the results are automatically digitized and categorized, making them accessible and easily searchable worldwide in real time. This enables greater transparency and traceability of the supply chain, and minimizes logistical, environmental, and economic costs.



The TSA measures individual components like thermo-haptic, friction, crumple, or drape behavior.

STAND | 12.0, F35 ←

30  
31



Advanced Dos & Dye robot Industry 4.0 guarantees fast, efficient, and accurate recipe preparation.

Beti

## Sustainable substitute for batch dyed yarns

The Dye Care yarn, the newest innovation by Beti, is a sustainable substitute for batch dyed yarns for all applications. The Dye Care 1.0 dyeing process saves 51% water, 34% gas and 21% electricity and therefore reduces the impact on the environment significantly. Advanced Dos & Dye robot Industry 4.0 guarantees fast, efficient, and accurate recipe preparation. Upgraded dyeing machines with continuous water-flow monitoring systems ensure balance between cost and sustainability.

STAND | 9.1, A75 ←

E+L sensors fulfill the industry's high requirements.



Erhardt+Leimer

## Sensors for high requirements

The seam sensor Elseamtex SI 1001 by Erhardt+Leimer detects optically, and therefore without contact, any type of seam on printed or single-color webs. Its software utilizes artificial intelligence and, in this way, makes it possible to detect cross-seams at the level of human perception. The user is able not only to protect calender rollers, shearing blades or print heads against damage, but also to automate handling steps. This automation improves the quality of the end product, reduces costs and increases transparency.

STAND | 12.0, B53 ←

Carmo

## High frequency eyelet welding machine

Carmo is presenting the next generation of the eyelet welding machine CP9. Emerged from the partnership with Forsstrom, it features a redesigned eyelet change mechanism for effortless operation and has also been updated for easier service and maintenance. The CP9 is suited for HF welding of plastic eyelets for banners and screens, oil booms, tarpaulins, shelters, tents and more. Setting, punching, and welding take place in one process.



The upgraded CP9 is a result of the cooperation between Carmo and Forsstrom.

STAND | 12.0, A30 ←

# CHT

SMART CHEMISTRY  
WITH CHARACTER.

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Hall 11.0/B11 | 23 – 26 April 2024

# TUBCOSIL

## ELASTIC SILICONE COATINGS FOR MORE FLEXIBILITY

The silicone coatings of the product group **TUBCOSIL** impress by their flexibility and performance. **TUBCOSIL**: The two-component system can be applied on almost all textiles and nonwovens. Technical textiles coated with **TUBCOSIL** show excellent material properties and are suited for a wide range of applications. For example, in medicine, architecture and mobility, in contact with food or as a flame-retardant glass fibre coating and in many other special applications. Convince yourself!



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Optimizing the performance and functionality of technical textiles with CHT product lines



**CHT Group**

**Finishing and coating systems for innovative functionalities**

The CHT Group's product portfolio includes water-based as well as silicone-based finishing and coating systems for new innovative functionalities from a single source. The company offers product lines specially developed for single-variety materials based on polyester (PET), that can be more easily recycled. Another example is a hydrophilic softener formulated from "end-of-life" silicones and emulsifiers made from renewable raw materials, as well as a high-quality textile finishing product made from recycled PET flakes.

STAND | 11.0, B11

**Andritz**

**Textile recycling and durable nonwovens**

Andritz places a special emphasis on technologies for textile sorting and recycling, bast fiber processing, needlepunch, airlay, wetlaid for technical fibers, and life-cycle service. The latest development in textile recycling is the automated textile sorting process. It enables the treatment of textile waste to produce recycled fibers for the spinning, nonwovens, and composites industries. One highlight in the needlepunch sector is the new Nexloom Elliptica-type DF-4 needleloom, that processes very lightweight nonwovens at high-speed.

STAND | 12.0, B93



Andritz textile sorting line

32  
33

**Ems-Griltech**

**Thermoplastic adhesives, technical fibers, and adhesion promoters**

Ems-Griltech will show its latest products for thermoplastic adhesives, technical fibers and yarns as well as adhesion promoters. Griltech copolyamides and copolyesters are used in the transport, construction, and packaging sectors. The Grilon fibers and thermoplastic bonding yarns include copolyamide, copolyester, bicomponent fibers and abrasion-resistant polyamide fibers, e.g. for the paper machine industry. The company's thermoplastic bonding fibers and yarns are used to modify textile structures and to stabilize prepregs for composites.

STAND | 11.0, C20



Technical yarns and fibers for technical and textile applications



STAND | 9.1, A76 ←

DNFI

## Benefits of natural fibers for technical textiles

For the first time, the Discover Natural Fibres Initiative (DNFI) will exhibit at the Techtextil fair with a group of its members. As interest in biodegradable fibers has increased, the DNFI will be providing information on the benefits and applications of natural fibers at the show. Applications range from insulation and stabilization in composites to material innovations in automotive and lightweight construction.

ETF

## Custom-made machines

ETF Machinefabriek develops and supplies machines for inspecting, cutting, rolling, packing, transporting, and sorting a wide range of different floor coverings and nonwovens. The custom-made machines are designed to provide a total solution using the company's years of knowledge and experience for customers worldwide. For example, smart, customized process automation is added to minimize the number of operators.



ETF uses smart, customized process automation.

STAND | 12.0, E69 ↷



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**Techtextil 2024 in Frankfurt**  
 April 23 – 26, hall 12, booth no. B55



Maura Zulic's complex sensory woven fabrics as part of the "Preatures" project

DITF

## Innovative projects on sensor technology

STAND | 12.1, D50 ↶

The German Institutes of Textile and Fiber Research Denkendorf (DITF) took part in 2 innovative projects regarding sensor technology. Together with roma-Strickstoff-Fabrik Rolf Mayer, the DITF experts combined the advantages of circular knitted fabrics with the functionality of a force sensor. Furthermore, the project "Preatures", a cooperation with the State Academy of Fine Arts Stuttgart (ABK), dealt with the design-led examination of textile pressure sensors and their possible applications for the human body. Maura Zulic's work as part of "Preatures" will be exhibited.

Getzner

## Technical textiles made in Europe

34  
35

Getzner Textil presents its products in the areas of personal protective equipment, functional clothing, acoustic fabrics, and corporate fashion. The company will also be exhibiting 3D technologies, as well as smart textiles. Steadily working on improving the impact of its businesses on the environment, energy efficiency is actively incorporated into the production processes, same as working with polyamides made from castor oil and biomass.



Innovative and high-quality fabrics for high demands

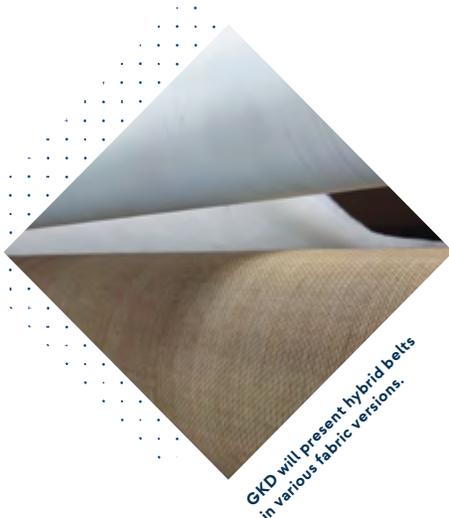
STAND | 11.1, C67 ↶

GKD

## Hybrid belts for thermal bonding of nonwovens

GKD – Gebr. Kufferath AG has developed glass hybrid belts specifically designed for the thermobonding of high-volume and high-density products in double belt ovens. These belts are particularly effective when processing highly adhesive bico fiber webs with high shrinkage forces. The company will be presenting the hybrid belts in various fabric versions.

STAND | 12.0, E11 ←



GKD will present hybrid belts in various fabric versions.

**Hall 12.0 Booth B81**



**MicroPunch**  
**Green Needling Technology**  
**for Lightweight**  
**Technical Nonwovens**  
**Energy reduction up to ca. 75%**



Friedola

## Customized, tailor-made products

With both of its production sites in Meinhard-Frieda and Osterode, Friedola represents diverse manufacturing processes made in Germany. The company mainly offers customized, tailor-made products, finishings, and assembly solutions. The machines and possibilities range from film extrusion and calendar coating, textile coating and foaming, surface area finishings, to textile surface generation, with a competence center for research and development and small-scale development machines.

STAND | 11.0, B14

Fidlock

## Magnetic fastening solutions

Fidlock presents its patented magnetic-mechanical fastening solutions. Many of them are sewable or can be combined with textiles. The buckles are used in the apparel and footwear sectors, as well as on bags, helmets, and technical equipment. By utilizing the company's customization choices in color, logo positioning, or even crafting entirely new designs, customers have the opportunity to create their own unique product.

STAND | 12.0, E90



Fidlock magnetic fasteners



The new machine range guarantees high performance and speeds up to 1,400 m/min.

Fadis

## Machine range for technical and carpet yarns

Fadis has developed a dedicated machine range for technical and carpet yarns up to 10,000 dtex/1 Nm for soft-winding, rewinding, assembly winding, and hank winding processes. The new products guarantee high performance and speeds up to 1,400 m/min. The winding tension involved reaches peaks that require specific machine features to control them and still guarantee a perfect final bobbin formation. Fadis has therefore foreseen 2 different options for compensating arms.

STAND | 12.0, B21 ←

Frohn

## Lightweight components for protective clothing

Frohn has developed components for protective clothing that are lightweight and comfortable to wear. The 3 articles, a warp knitted mesh, a velvet, and a fleece, are made of 100% meta-aramid and can be produced in different colors. The fabrics are soft and have highly functional wearing characteristics thanks to their good air permeability and fine thread structure. Clothing manufacturers can use these items as inner linings and gloves.

STAND | 11.1, C40 ↩

FRTI

## Focus on pressure sensing

FRTI will showcase the latest combination of textile pressure sensors and innovative lighting, including flexible lighting and intelligent feedback. Based on conductive fibers and embroidery technology, the company shows a product range from sensing to heating through lighting. This year, the focus of the exhibition will be on pressure sensing.

STAND | 12.1, D06 ↩



FRTI realizes a wide variety of sensor applications.

# KARL MAYER STOLL KM.ON

**THE INNOVATIVE  
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Techtextil Frankfurt  
23. - 26. April  
Hall 12 | B 73



**KARL MAYER GROUP**

Carl Stahl

## Upcycling products made out of webbing remnants



Colors, buckles, and sizes of the DIY bag can be configured according to individual preferences.

STAND | 12.1 D50 ↶

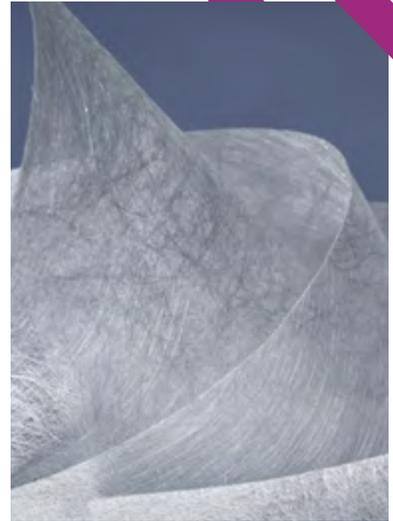
Besides being a manufacturer of narrow webbing for safety belts and roller shutter pulls, Carl Stahl is also focusing on transferring into a lifestyle-product manufacturer, such as the DIY bags made out of webbing remnants. The upcycling products combine sustainable principles with trendy designs, as the use of surplus stock reduces waste and transforms it into new products. The DIY bags are the result of a collaboration with students at the Albstadt-Sigmaringen University.

Freudenberg

## Sustainable material solutions

38  
39

Freudenberg Performance Materials will exhibit with a dedicated Sustainability Hub under the motto “Together for a sustainable future”. A selection of the wide-ranging technological possibilities will be demonstrated within the hub, both through hands-on examples and digital experiences. The key focus will be on aspects such as recyclability, dematerialization, durability, compostability, and circularity. The company’s range of technologies offers a unique capacity to advance sustainability in different directions.



STAND | 12.1, C29 ↶

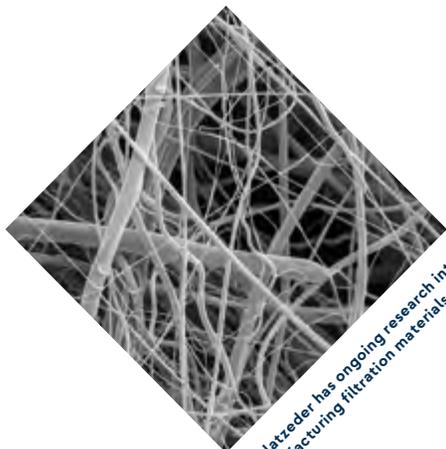
Comfortemp thermal insulation

Georg + Otto Friedrich

## Innovative solutions for digital printing and industrial applications

Georg + Otto Friedrich will be presenting, among other things, velours, coating substrates, laminated goods, knitted fabrics, filter fabrics, as well as materials for digital printing. Visitors will have the opportunity to experience the quality and material properties using a variety of fabric samples. In addition, the company also shows some innovations, underpinning their promise of “Going Green by Friedrich—a closed recycling loop”.

STAND | 11.1, A80 ←



P. Glatzeder has ongoing research into manufacturing filtration materials.

**P. Glatzeder**

## Technical textiles made in Europe

P. Glatzeder announced a breakthrough in the production of meltblown nonwovens made of polypropylene (PP) with a focus on nanofibers. A key aspect is the development and perfection of the Nanomelt technology, a process that makes it possible to produce meltblown nonwovens with nanofibers averaging 600 nm in thickness. This is a significant advance in filtration technology, as it enables more efficient filtration compared to conventional meltblown fibers.

**STAND | 12.1, D23** ↪

**Icap-Sira**

## Biobased and biodegradable polymers and specialties

With 4 production plants and an advanced and innovative research and development activities, Icap-Sira offers the acrylic water-based emulsions Acrilem and the water-based polyurethane dispersions Idrocap. The Idrocap series includes Cleancap, the new generation of low VOC, and solvent-free water-based PUDs. The company's product portfolio has been recently enriched with biobased and biodegradable products to meet performance and sustainability targets.

STAND | 11.0, D79 ↪



Icap-Sira's production plants are diversified and highly automated.

**Hammer-IMS**

## Advanced in-line measurement solutions

By minimizing deviations, in-line measurement systems lead to fewer complaints, less fabric waste, and significant cost savings. Hammer-IMS specializes in advanced in-line measurement solutions specifically for fabric manufacturers. The company's technology offers high accuracy, reliability, and efficiency, ensuring precise monitoring and control throughout production. With non-contact, maintenance-free systems, Hammer-IMS provides a safe and environmentally friendly alternative to traditional methods.

**STAND | 12.0, D10** ←



Hammer technology in nonwovens production



The Graf Single Lub 2 application system

## Graf Chemicals

### New lubricant developments

STAND | 9.1, C 81 ↓

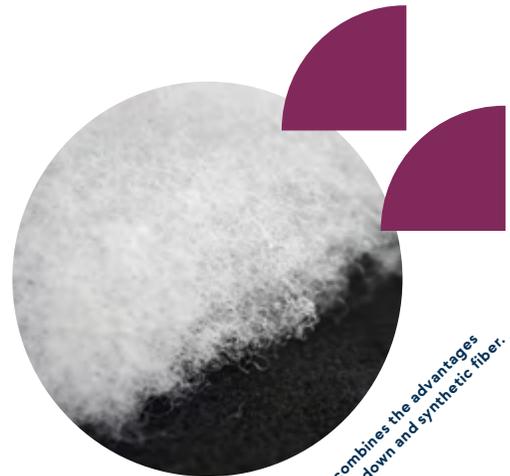
Graf Chemicals will be introducing new developments such as water-repellent lubricants (PFC-free) and silicone-free lubricants, water-based bonding agents, and sewing thread lubricants. Also on display will be special paraffin wet waxing lubricants/softeners for the finishing of knitting and weaving yarns. The technological business unit will be showing the Graf Single Lub 2 application system for the finishing of sewing threads and embroidery yarns during the winding process.

## Goldeck

### High-performance insulation technology

Goldeck will show its insulation technology G-Loft. The unique synthetic fiber material combines the advantages of natural down with the insensitivity of synthetic fiber. It is warm, light and breathable – even in extremely wet and cold weather. The material is easy to clean, 100% made in Europe and reaches Oeko-Tex 100 class 1.

STAND | 12.1, D19 ↩



G-Loft combines the advantages of natural down and synthetic fiber.

40  
41

Graute high-performance card with cross lapper in production



## Graute

### Nonwovens machinery

At the beginning of 2024, Graute continued to grow with the takeover of DOA. The company is now the contact for complete airlay lines up to 15,000 g/m<sup>2</sup>, with a particular focus on products made from recycled fibers and natural fibers such as hemp and flax. In recent years, Graute has brought several innovations to the market. One of them is the new Slide Drum Winder, which combines the advantages of a sliding and a carrying roller winder.

STAND | 12.0, B69 ←

# French Innovation cluster dedicated to the textile industry supporting 31 innovatives companies

## FIBERS & YARNS

- **Blanchard Tech & Yarns**  
*Conductive fibers/yarns*
- **Les Fils de Lyon**  
*Conductive fibers/yarns*
- **Massebeuf Textiles**  
*Technical & functional yarns*
- **Sofila**  
*Yarns & threads*

## SMART TEXTILES

- **AQ-Tech**  
*Smart-textile engineering*
- **GammaO**  
*Triboelectric smart textiles*
- **JRC Reflex**  
*Retro reflective technology*
- **Satab /Eweave**  
*Webbing & smart textiles*

## FINISHING

- **Fibroline**  
*Powder impregnation technologies*
- **Montdor**  
*Coated & laminated textiles*
- **Otego**  
*Coated & laminated textiles*
- **Proneem**  
*Biotechnology, microencapsulation*

## MACHINES & EQUIPMENTS

- **Fotia DMT**  
*Special machines*
- **Spoolex**  
*Web converting machines*
- **Texti Sonics SAS**  
*Ultrasonic welding devices*
- **Thimonnier**  
*RF presses and welding machines*

## TECHNICAL TEXTILES & NON-WOVEN

- **Bertheas**  
*Elastic & multifunctional fabrics*
- **Cernay Pro**  
*Technical fabrics weaving and finishing*
- **Chamatex Group**  
*Technical textiles for sports & PPE*
- **Europrotect**  
*Technical fabrics weaving and finishing*
- **Héraud Rubans**  
*Straps, tapes, ribbons*
- **Manutex**  
*Weaving and braiding products*
- **MKM Couture**  
*Technical & safety stitching products*
- **Porcher industries**  
*Synthetic fabrics & composites*
- **Samuel Roche**  
*Technical webbing, straps*
- **Sulitec**  
*Nonwovens made of glass fibres*
- **Stevtiss / Tisstech**  
*Weaving & fiber glass fabrics*
- **Techni Sangles**  
*Technical straps*

## R&D CENTER & LABORATORY

- **IFTH**  
*Technological center*
- **VirHealth**  
*Virology & microbiology laboratory*

## RECYCLING TECHNOLOGY

- **Recyc'Elit**  
*Circular separative PET recycling technology*





Camo-printed hook and loop fasteners

Kuny

## Camouflage patterns on hook and loop fasteners

Kuny shows how digital inkjet printing enables contactless printing of hook and loop fasteners (Hakofix Camouflage) with functional surface structures. The use of camo-printed hook and loop fasteners extends the potential applications where complete camouflage is required. Digital inkjet technology also enables printing on flame-retardant materials. Furthermore, Kuny introduces an innovative, washable, as well as chemical- and bleach-resistant label designed for textile and apparel manufacturing.

STAND | 12.1, C05 ↩

Halco

## Wide array of hook and loop tapes

With a large range of products suited for many applications, Halco Europe delivers and innovates new hook and loop solutions every year. The company will showcase its wide array of hook and loop tapes, highlighting their uses in medical equipment, transport interiors, defense vests, apparel, furnishings, and industrial gear. With over 20 years of experience, Halco and its team will be at the fair to answer questions and forge new relationships with partners across Europe.

STAND | 12.1, D29 ↩



Halco delivers new hook and loop solutions every year.

42  
43



Heytent Grandchamp (Heytex)

Heytex

## Truck tarps with recycled base fabrics

Heytex will present its latest eco-friendly collection of truck tarpaulins made from recycled PET bottles, which also come as a Climate Partner certified product. By using recycled PET bottles, energy consumption during yarn production is minimized by around 75%, resulting in a significant reduction in CO<sub>2</sub> emissions. The tarps are characterized by excellent properties such as good planarity, easy weldability, and low smoke development when welding. They are part of the Heycargo product range.

STAND | 11.0, B58 ↩

Baldwin / Elmatex

## Partnership to drive sustainable finishing

Baldwin will join his distribution partner Elmatex to demonstrate how its Texcoat G4 precision spray finishing system eliminates chemistry waste on changeover, saves water and energy, and achieves faster speeds through the stenter frame. With Baldwin's innovative system, the chemistry is precisely distributed across the textile surface and is applied only where it is required. It eliminates chemistry dilution in wet-on-wet processes, allowing full control over maintaining consistent chemistry coverage rates.



STAND | 12.0, D63



Texcoat G4 minimizes chemistry waste as well as water and energy consumption.

Eltex

## Yarn tension monitoring

Eltex will display the latest Eltex Ey ETM system for the continuous monitoring of yarn tension on warp beams. It eliminates problems when warping, monitoring the yarn tension in all positions in real-time and enabling a minimum and maximum allowable tension value to be set. The Eltex ACT and ACT-R units, meanwhile, go beyond yarn tension monitoring to actually control yarn tension. The plug-and-play system automatically compensates for any differences in yarn tension that arise.

STAND | 12.0, C53 ←

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POSSIBILITIES WITH  
**CORDURA**®



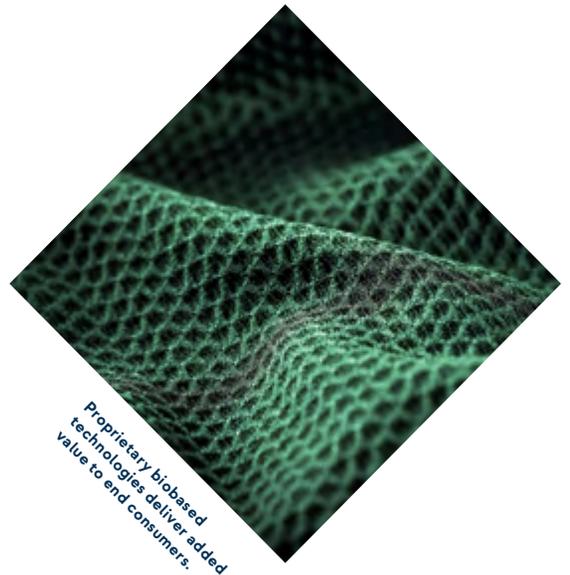
STOP BY  
**HALL 9.1 B34**

HeiQ

## Innovative range of biobased technologies

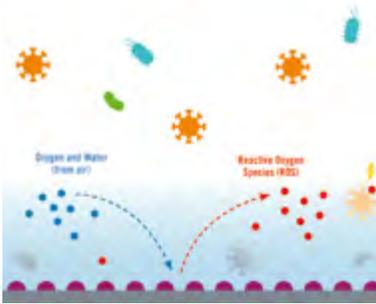
HeiQ will show an innovative range of biobased technologies like HeiQ Mint. This plant-based deodorizer not only controls malodor development but also brings freshness to textiles. Based on a blend of essential mint oils, this technology ensures fabrics remain fresh throughout the day. The odor capture and release technology seamlessly integrates into various textiles, from sports and outdoor apparel to intimate wear and home textiles.

STAND | 12.1, C11 ↗



Proprietary biobased technologies deliver added value to end consumers.

44  
45



AGXX works effectively against over 130 microorganisms.

STAND | 9.1, B80 ←

Heraeus Precious Metals

## Antimicrobial technology for textile functionalization

The antimicrobial technology AGXX developed by Heraeus Precious Metals can be seamlessly incorporated into textiles to provide high protection. Unlike traditional antimicrobial technologies, it does not rely on the release of silver ions or any other toxic substances. Instead, this technology functions through the catalytic conversion of humidity and oxygen into reactive oxygen species (ROS). Its effectiveness has been demonstrated against over 130 microorganisms.

Niederrhein University

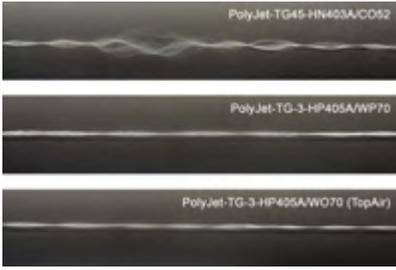
## Participation in innovative projects

The Research Institute for Textile and Clothing Technology (FTB) at the Niederrhein University of Applied Sciences is involved in different innovative projects. With Hempknit, the institute explored the sustainable properties of hemp fibers. The Algatex project aims to unlock filamentous green algae as a textile fiber source. In the field of 3D printing, the FTB has been investigating the possibilities of fused deposition modeling in order to print textiles 3-dimensionally using thermo-plastics.

STAND | 12.0, B46 ↘



The project Hempknit realized a zero-waste process.



Comparison of yarn evenness for PET dtex 1100f92 yarn

**Heberlein**

## Jet technology for demanding technical applications

The key components from Heberlein support the latest developments in filament yarn production. The new generation of the spinning jet Polyjet-TG-3 is characterized by an even and uniform interlacing density as well as strong, reliable knots for high-tenacity yarn. The latest version achieves more than 12 knots per meter with 1100f98 dtex and 1670f98 dtex. Yarn parameters of tensile strength, elongation, and elasticity show smaller variations, as well as improved unwinding behavior of the bobbins.

STAND | 12.0, B01 ←

**Halo**

## Customized software for textile manufacturing processes

Mobile monitoring is one of the focal points of the inteos software package by Halo. Where previously stationary terminals were used, inteos now relies on mobile handhelds, which provide a real-time overview of the current status of a machine at any time and from any location. The software also captures data seamlessly, fully integrated, and in real time across the entire textile chain, thus creating the conditions for the integration of AI-based applications.



Mobile monitoring with inteos

STAND | 12.0, D77 ↶

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 booth  
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**IQ-SPS**

## User-friendly and sustainable solutions



The new Phoenix projectile weaving machine

With a clear focus on sustainability, IQ-SPS is helping to reduce the ecological impact of the textile industry. IQ-SPS relies on technologies that are easy to understand and operate and combines traditional values such as quality and reliability with modern approaches to sustainable production. A particular highlight is the new Phoenix projectile weaving machine that, with 6.5 kW and an insertion speed of 1,600 m/min, has a very low energy requirement.

STAND | 12.0, A80

46  
47

STAND | 9.1, B19

**Barnet**

## Customized fiber and yarn solutions

The product portfolio of Barnet is primarily aimed at companies that produce woven and knitted fabrics, ropes, nonwovens, and spun yarns. The company has also been a pioneer in the recycling of textile production waste and post-consumer waste. The statement "Recycling is in our DNA" led to the consequence of grouping all products that are part of the company's sustainable product portfolio under the Ecoware label. Ecoware products must meet certain, clearly defined characteristics to comply with the company's sustainability standards.

Barnet offers more than 125 years of experience.



**Hemp-Act**

## Finalizing the decortivating line design

During December 2023 and January 2024, Hemp-Act continued a series of tests to finalize the design of its decortivating line. With Hemp-Act's technology, customers can transform and add value to all the qualities of straw that their supplying farmers could deliver to them. Finally, they will be able to market textile fibers and the reinforcement of profitable bio-composites while being competitive. Hemp-Act is thus finalizing its 2-in-1 decortivating and combing/hackling solution by integrating it into its next decortivating line, HD1300Textile\_00.

STAND | 12.1, E59

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TEXTILES**

**COMPOSITE  
TEXTILES**

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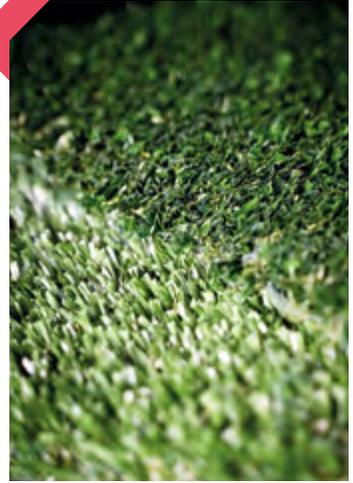


ITA

## Biotextfuture innovation area

The ITA Institute of Textile Technology will be showcasing its entire range of research into sustainability and recycling at the Biotextfuture innovation area. Specifically, these are the Biobase, Bioturf, CO<sub>2</sub>Tex, Degratex, and Lightlining projects. There will also be a more wear-resistant hemp polishing disc on display. Furthermore, the Recycling Atelier ITA Augsburg presents its core competence as the first model factory for mechanical textile recycling.

STAND | 12.0, D65 ←



ITA developed an artificial turf structure made of biopolyethylene.

48  
49



Jowat's market novelty with no GHS pictograms: Jowatherm-Reaktant MR 614.50

STAND | 11.0, D10 ↶

Jowat

## Focusing on green adhesives

Jowat will be showcasing its multifaceted range of adhesives tailor-made for the requirements in the textile, automotive, and filter industries. The company thereby focuses on sustainability with its green adhesives. One major cornerstone of the green adhesives portfolio are the PUR hot melt adhesives with hazard-free labeling in the Jowatherm-Reaktant MR range. The powerful adhesives without GHS pictograms are characterized by their high performance.

Kuraray

## LCP and PVA fibers

In its fiber sector, Kuraray offers liquid crystal polymer (LCP) fibers under the brand name Vectran and polyvinyl alcohol (PVA) fibers under the brand name Kuralon. Vectran is a high-strength fiber, offered in a wide thickness range between 1.1 and 30 dtex as a single filament. It is 5 times stronger than steel and offers a unique combination of properties. Kuralon is used in many industrial applications owing to its unique performance, such as its high tenacity and modulus, dimensional stability, hydrophilicity, alkaline resistance, and UV stability.

STAND | 9.1, B11 ↶

The high-strength fiber Vectran



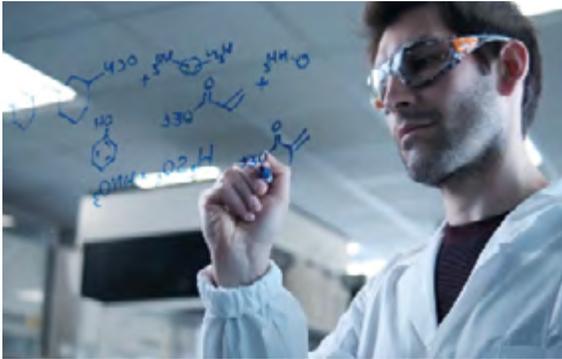


Karl Mayer

## Solutions in knitting, composites, warp preparation and digitalization

The Karl Mayer Group is presenting solutions from the fields of warp knitting, flat knitting, composites, warp preparation, digitalization, and care solutions, with a focus on technical textiles. In the warp knitting sector, Karl Mayer will show how new business potential can be exploited with the HKS 3-M On Plus. The newcomer offers high flexibility and also produces open-design fabrics with different densities and constructions. Another highlight are multicolor spacers from a new double raschel machine.

STAND | 12.0, B73 ↩



Lamberti

## Sustainable chemical solutions

Lamberti will showcase its latest water-based and bio-based developments for the coating and treatment of technical textiles and synthetic materials. Customers have the possibility of discovering water-based coagulation as a sustainable and safe alternative to traditional DMF-based coagulations. Furthermore, there are biobased polyurethane and acrylic dispersions shown to be suitable for paste formulation, mechanical frothing, protective coatings, lamination, water repellency, and breathability.

STAND | 11.0, B16 ←

IVGT

## Representing the interests of 150 members

↩  
STAND | 12.1, B45B  
As a large textile trade association, the IVGT represents the interests of 150 member companies in the fields of textile raw materials, finishing, yarns, and fabrics, as well as technical textiles. The IVGT service company Treutex is responsible for the promotion of the textile industry at specialist events such as the KI workshop. With its specialized knowledge, IVGT/Treutex offers member companies nationwide comprehensive support in the areas of environment, energy, and product safety.



Treutex offers a calculation of the CO<sub>2</sub> footprint of products.



Fixing a mobile phone securely in place with Jumbo high-tech elastics

**Jumbo-Textil**

**From high to minimal elasticity**

Fixing a mobile phone securely in place, slipping comfortably into protective gloves, stretching the jumping surface of a trampoline, using an exoskeleton conveniently, and much more – high-tech elastics from Jumbo-Textil offer high elasticity on one hand, e.g., for electric sliding doors, and minimal elasticity on the other, e.g., for an adjustment element in the vehicle interior. The tapes, cords, nets, and textile components are used in almost all industries.

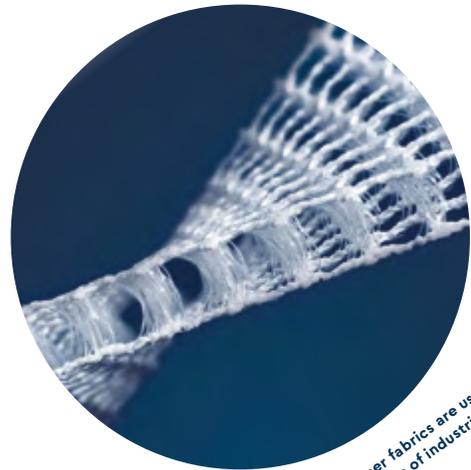
STAND | 12.1, C58 ←

**Müller Textil**

**New spacer fabrics**

In the field of technical textiles, Müller Textil offers 3-dimensional spacer fabrics, 3D textiles, laminating materials, and spacers. Under the brand name 3mesh, the company provides a high-quality alternative for various textiles, foams, nets, linings, and nonwovens of all kinds. 3mesh offers versatile properties and is used in a wide range of industries. The combination of state-of-the-art production processes and unique development expertise enables customer-oriented development services.

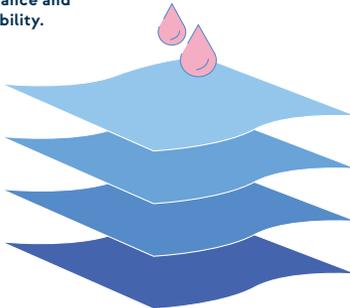
STAND | 12.1, C14 ←



3mesh spacer fabrics are used in a wide range of industries.



The period panty offers high performance and sustainability.



**Kelheim Fibres**

**Concept for sustainable period underwear**

The collaboration between Kelheim Fibres and Otto Garne aims to develop sustainable innovations, bringing them successfully to market. One result of this partnership is an innovative concept for period panties. The sustainability of the product is built on 3 pillars: the use of bio-based materials, the resource-efficient reusability of the product itself, and short supply chains due to regional production. In terms of performance, the period panty offers high values in liquid absorption capacity, rewet, and absorption time.

STAND | 12.1, C40A ←



## Morchem Reactive hot melt for textile lamination

Morchem will show its products resistant to steam sterilization and its flame-retardant grade.

Morchem will show its products resistant to steam sterilization for medical applications and its flame-retardant grade. Furthermore, the company will be looking at the new EU directive for the reduction of MDI in its low monomer product. The specialist in PU technology manufactures its whole product range for textile lamination at its plants in Barcelona and Madrid/Spain.

STAND | 11.0, D80 ↶

## Lederer Application in all textile processing stages

STAND | 12.1, D50 ↶ Lederer's versatile product portfolio offers covered elastic yarns ranging from 12 to 6,800 dtex. The products are used in all textile processing stages. The medium-sized family business employs around 130 people, processing synthetic fibers as well as natural fibers in combination with elastane or rubber. The products are used worldwide in high-quality branded textiles and are certified according to the Global Recycled Standard (GRS).



Lederer offers elastic yarns ranging from 12 to 6,800 dtex.

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Nonwovens Booth:  
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Annual and Sustainability Report 2023 of the Lenzing Group  
Now online: [reports.lenzing.com](https://reports.lenzing.com)



Special brushes used in a knitting machine

#### Kullen-Koti

### Brush solutions for high-tech textile products

Kullen-Koti presents itself as a partner for the textile and the nonwovens industries. The company equips manufacturers and machine builders with customizable brush solutions for production, finishing, and surface treatment. This year, there will be a representative cross-section of its current portfolio at the fair. The company will be exhibiting, e.g., special brush segments for needle looms that are used in the manufacture of complex velour and needle loom products. The exhibition program also includes special brushes that are used in high-speed knitting machines.



STAND | 12.0, E85

#### Lenzing Instruments

### Concept of easy and intuitive handling

Lenzing Instruments will present quality control solutions for filament yarns, staple fibers, nonwovens, and synthetic film. Visitors will have the opportunity for a hands-on experience with the concept of easy and intuitive handling while also learning about the benefits of the exhibited testing systems and further available quality control systems. Essential material tests for nonwoven coverstock (topsheet) aimed at hygienic applications include verification of performance indicators such as liquid strike-through, rewet and run-off.



STAND | 12.0, B42



52  
53



#### Miederhoff

### Expansion of the product range

Miederhoff produces the hardware to connect, to tension, and to fasten technical textiles for the commercial vehicle industry, tent construction, tarpaulin manufacturing, or advertising technology. With a wide range of products, the company supplies customers in around 60 countries worldwide. The components for roll-up covers offer assembly options for a wide range of applications and stand for precise functionality and reliable handling. The included winding tube is available in 3 marketable standard lengths of 4, 5, and 6 m.



STAND | 12.0, C81

Miederhoff supplies customers in around 60 countries worldwide.

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Mahlo process control systems

Mahlo

## Measurement and control technology for technical textiles

Mahlo ensures efficiency and process reliability with its process control systems and established automatic straightening systems. The company will be demonstrating how the production of technical textiles can be optimized with state-of-the-art weft straighteners and measurement and control technology. Mahlo will showcase measurements conducted on diverse fabric samples. They will utilize a range of sensors sourced from the versatile Qualiscan QMS quality measurement system.

STAND | 12.0, D55

54  
55

STAND | 9.1, C49

Perlon

## Innovative monofilaments for various applications

Innovative, high-quality monofilaments are this year's focus of Perlon. Versafil is a new monofilament family based on an innovative new polymer. Its properties close the gap between PPS and (stabilized) PET. For applications in dry processes, Perlon offers the established Antistat product range. The company has now developed the next generation of this product, Antistat Plus, which has a smoother surface, a higher conductivity, and the lowest particle release upon abrasion.



Monofilaments can significantly contribute to reaching sustainability goals.



Mathis

## Modular coating system

The modular coating system KTF-S from Mathis is available with a working width of 300, 450, or 600mm. It is ideally suited for various applications in the textile industry, the pharmaceutical industry, foil and paper manufacturing, or in research and development laboratories. Due to the modular design of the system, all process-oriented add-on components can be installed when needed. The user therefore has a flexible system that can be customized to the actual requirements.



STAND | 12.0, F19

The KTF-S can be customized with various add-on modules.

Menzel

## Special machine construction

Menzel Maschinenfabrik will present its machine program in the fields of winding technology, coating and laminating, as well as wet finishing. Lines for material widths of more than 8m are possible. For winding technology, manual, semi-automatic, and fully automatic units are available. The strength of the company is the special machine construction, so that customers can get their customized machine.

STAND | 12.0, B62



Menzel supplies both individual components and complete lines.



The Coattex coating unit is dedicated to air knife and knife-over-roller coating.

STAND | 12.0, C58

Monforts

## Presentation of new coating unit

Monforts will launch its new Coattex coating unit dedicated to air knife and knife-over-roller coating. Coattex is suitable for the incorporation into existing finishing ranges as well as the installation with new Monforts lines, notably the Montex stenter systems. A wide range of coatings can be applied for functions such as waterproofing, liquid and gas protection, and breathability. With an operational speed of up to 40m/min, Coattex units are available in nominal widths of between 1,800 and 3,600 mm.

# functional textile solutions

**Topaz**  
by trans+textil

Hall 12.1  
Booth A46



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Seat belts must be able to withstand tensile forces of more than 3 tons.

**Oerlikon**

**Focus on road safety and health protection**

Oerlikon Polymer Processing Solutions will inform trade visitors about technologies for the production of technical textiles. The focus will be on sustainable solutions in the areas of safety, automotive, and health. A seat belt, e.g., consists of around 300 filament yarns, whose individual high-strength yarn threads are spun from around 100 single filaments. Oerlikon Barmag's patented Single Filament Layer technology ensures a high-tenacity (HT) yarn process that is as sophisticated as it is gentle.

STAND | 12.0, C55D ←



Oxytec cleaning systems of textile exhaust air

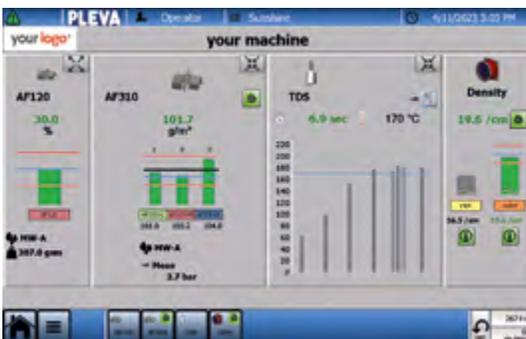
**Oxytec**

**Energy-efficient cleaning of exhaust air**

Oxytec offers energy-efficient cleaning of textile exhaust air. The company's drying systems for textile applications are operated in discontinuous mode. UVC and/or plasma technology from Oxytec is used in many systems for cleaning textile exhaust air, and, as a result of the technical conditions, usually consists of an air/air heat exchanger. With this application, temperatures can be reduced from approx. 180–220°C to approx. 130°C.

STAND | 12.0, D76 ←

56  
57



Plevatec Pro allows the integration of all critical data.

**Pleva**

**New process control system**

Pleva developed the new process control system Plevatec Pro to enhance operation even at complex production lines with different modules. Making sophisticated processes transparent and efficient, Plevatec Pro allows the integration of a huge variety of process-critical data with all information at one glance and optimal controls. The customizable system provides solutions to a huge range of processes, e.g., a production line with a foulard, vacuum, predryer, coating, and stenter frame.

STAND | 12.0, C41 ←



Particle sizes range from <80 to <1,500µ.

## Powder Plastic Europe Powder polymers

← **STAND | 11.0, A08**  
Powder Plastic will make its debut appearance at this year's Techtextil. The company sells a wide range of powder polymers for many applications: carpet manufacturing, conveyor belts, rotational molding, masterbatch manufacturing, adhesives for textiles, leather, etc. It also specializes in ambient and cryogenic milling to meet the needs of various industrial sectors. The sales team will be available to assist all visitors and present the range of products.

### Procotex

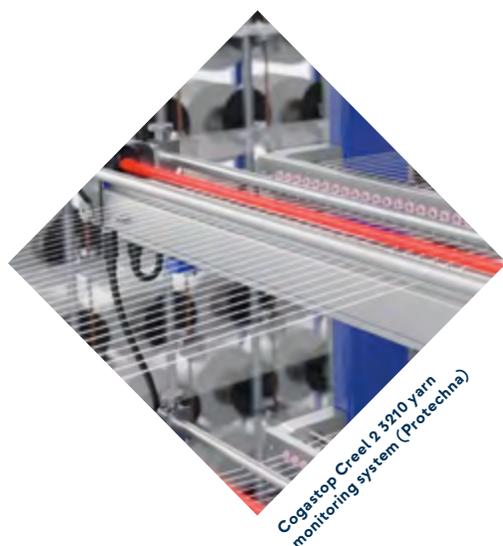
## Recycled pure PP fibers

With its recycled pure PP fibers, Procotex serves different markets, like producers of automotive nonwovens, geotextiles, drainage pipes, and mattress felts. The fibers are made by mechanical recycling of PP waste streams coming from the extrusion and the carpet industry. Besides, the company also recycles natural yarn, fabric, and fiber waste. Under the brand name Carbisio, a range of sustainable carbon fiber products is offered.



← **STAND | 9.1, B40**

Procotex fibers are made by the mechanical recycling of PP waste streams.



Cogastop Creel 2 3210 yarn monitoring system (Protechna)

### Protechna

## Automatic detection of yarn defects

← **STAND | 12.0, D20**  
Protechna offers the Cogastop Creel 2 3210 yarn monitoring system. With its automatic detection of yarn defects, slubs, double threads, knots, and spinning defects can be spotted. Monitoring is performed directly on the creel. To facilitate this, the inspection heads are attached to a special mounting frame or, where possible, to the creel itself. Thanks to the use of active transmitter and receiver units, they are easy to adjust and facilitate infinite and automatic sensitivity adjustment.



Fire blanket made out of 100% Pyrotex classic fiber

Pyrotex

## Innovations in fire safety products

Pyrotex has adapted professional fire blankets for household applications using its 100% Pyrotex classic fiber. The basis was a blanket originally engineered for wildland firefighters to combat the intense heat and hazards of rolling fires. This innovative solution is suitable for everyday use on sofas or beds. Yet, its true value emerges during emergencies, where it seamlessly transitions into a life-saving tool.

STAND | 9.1, C03

Fuchshuber

## Recycled high-performance fabrics

In collaboration with Concordia Textiles, Estambрил Textiles and DuPont, Fuchshuber uses the Purfi technology for the integration of recycled DuPont Nomex meta-aramid fibers. These fibers are processed into a yarn that consists of 30% pre-consumer or post-consumer waste and 70% virgin fibers. The innovation lies in the fact that the Purfi technology achieves fiber lengths that can be reliably spun into high-quality yarns. This means that the yarns can be used for high-quality, high-performance knitted fabrics.

STAND | 11.1, C79

58  
59



The new solid ceramic friction disc, Rapaltex SG

Rauschert

## New ceramic friction disc

Rauschert has developed a new solid ceramic friction disc called Rapaltex SG which is engineered for the 3-axis false-twist unit. For inserting twist, all discs are wrapped by the yarn filament bundle on their external curved radius, and the twist is inserted by the dynamic frictional interaction between the filaments and the disc surface. At Rauschert, every development step was tested and systematically optimized to achieve the ideal ceramic surface topography required for optimal twist insertion.

STAND | 12.1, C69



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## Relast

### Diverse range of products

Relast offers a diverse range of products that meet the highest standards of quality and design. The company uses polyamide, polypropylene, and polyester yarn, which allows it to expand its range and make tape for any need. The high-strength polypropylene tapes are used in the textile, automotive, and medical industries. For tasks that require high-strength resistance to friction and abrasive effects, the company provides polyamide tapes.

STAND | 12.1, E31A ↩

## Fibre Extrusion Technologies

### Opening of a fiber development center

Fibre Extrusion Technologies works closely in collaboration with its customers on the development of specific multifilament, monofilament, and nonwoven polymers for niche applications. At the start of 2023, the company was opening its expanded fiber development center, with considerably enhanced facilities more than doubling capacity and increasing efficiency. By this, the company has accelerated the number of technical trials it has conducted for its clients.

STAND | 12.0, A84 ↩

## Airbond

### Resource-efficient splicing

Resource efficiency in the processing of materials such as carbon and aramid is a key benefit of Airbond's latest splicing technologies. Pneumatic yarn splicing works by intermingling individual filaments closely together to make joints that are stronger and flatter than knots. The patented splicers in Airbond's latest range are 3D printed, making them both lighter and stronger, and now enable the splicing of yarns in sizes of up to 16,000 tex.

STAND | 12.0, E31 ↩



## Retech

### Precise temperature control

Retech's heated godet rolls are designed to deliver precise temperature control tailored to each material and maintain consistent temperature levels throughout the process. The designs guarantee accuracy and precision in temperature profiles, thereby ensuring constant yarn quality with every production run. In addition to the energy-saving motors and energy-optimized heaters, an important part of the Retech godet concept is the long service life and the associated permanent availability.

STAND | 12.0, B01 ↩

Reutlingen University

## Portable textile wind turbine for digital nomads

A recent master's project at Reutlingen University involves the development of a portable wind turbine concept as a reliable energy source for digital nomads. The objective was to explore wind power as an alternative energy solution for charging electronic devices. The chosen design features a lightweight and foldable textile rotor. Future work will involve the use of composite materials and Dyneema textiles for weight reduction and durability. Reutlingen University will display the functional model of this project at its booth.

STAND | 12.0, E43 ↩



The wind turbine design features a foldable textile rotor.

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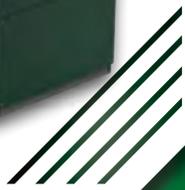
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The speed of Robotech's sewing automats is produced in-house.

Robotech

## Hyperautomation and Ethercat

STAND | 8.0, H76

To be more precise, the speed of Robotech's sewing automats is self-designed, programmed, and produced in-house. The company has more than 50 sewing automats for various operations in its sewing line-ups. Recently, Robotech has begun to employ the Ethercat technology in their automats. The first 2 machines with this latest technology are the D-PS 710 Rear Pocket Attaching Automat and the D-JS 610 Denim J Stitch Automat. These automats are timed to be around 10-15% faster than their competitors.

Rex

## Innovative fire protection textiles for lithium-ion batteries

By selecting the most suitable fiber materials, paired with special finishing treatments, Rex is available as a development partner for high-tech heat- and flame-protection solutions. The company's protective textile for fire-limiting blankets prevents textile breakage even at temperatures exceeding 900°C. The Rex Heatshield ensures the safety of future battery environments during a thermal runaway with a textile structure <2 mm thick.

62  
63

STAND | 12.1, B44 ←



Rex's fire curtains pass rigorous fire resistance tests.



The office chair demonstrator has 4 sensor areas, each in the backrest and the seat area.

Roma

## Textile-based sensors

Roma-Strickstoff-Fabrik and the DITF developed a circular knitted fabric with reliable sensor functionality. The new product was combined in an office chair demonstrator with 4 sensor areas each in the backrest and the seat area. The textile-based sensors are connected to a microcontroller with a Bluetooth module located underneath the chair. Software was developed that enables seat occupancy and sitting position to be determined.

STAND | 12.1, D50 ←

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Energy Efficiency?

New Materials?

Digitalization?

Traceability?

Recycling?

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## oerlikon



The Twinstar II now features a new flexible traverse option.

Sahm

## Winding machines for different application areas

Sahm will show its solutions together with its sister company STC Spinnzwirn. The focus will be on 2 key Sahm winding machines serving different areas of application. Firstly, the Twinstar II now features a new flexible traverse option, which enables full customization of the traverse width, package shape, package positioning and yarn reserve. The second machine, the Sahm 780XE, shows its strengths in the monofilament and monofilament-like materials segment. Users value this parallel winder for its automatic optimization of the laying stroke during package build-up.

STAND | 12.0, C93

Sântis

## Mechanical fiber opening

Sântis has developed the innovative RCO100 textile recycling system. Its mechanical fiber opening technology is designed to treat fibers gently and preserve their length and strength. Unlike traditional recycling systems, the RCO100 system prioritizes fiber quality, ensuring that recycled cotton maintains its integrity throughout the recycling process.

STAND | 12.1, D02



The RCO100 system prioritizes fiber quality.

64  
65

Textechno

## Innovations in testing instruments

Textechno will show its latest testing instruments for fibers and yarns. The company will present the Fibrolenght tester that allows to measure the fiber-length distribution of all types of fibers. An innovation is the automatic yarn tensile tester Statimat ME+ with integrated measurement of electrical conductivity during the tensile test. Furthermore, Textechno demonstrates the Favimat+, an automatic single-fiber testing system that determines the following fiber properties in a single instrument.

STAND | 12.0, B50

The automatic single-fiber testing system Favimat+





## STFI Highlights of textile research

The Saxon Textile Research Institute (STFI) will be presenting highlights from current research results and innovations. The scientists provide an insight into the digitalization of textile production, show applications for 3D printing and smart technical textiles, and give examples of particularly sustainably designed products. The central highlight is a robot system that demonstrates the automated processing of a bobbin frame on a small scale.

STAND | 11.1, E40A ←

One STFI highlight is a green snowboard made from recycled carbon fibers.

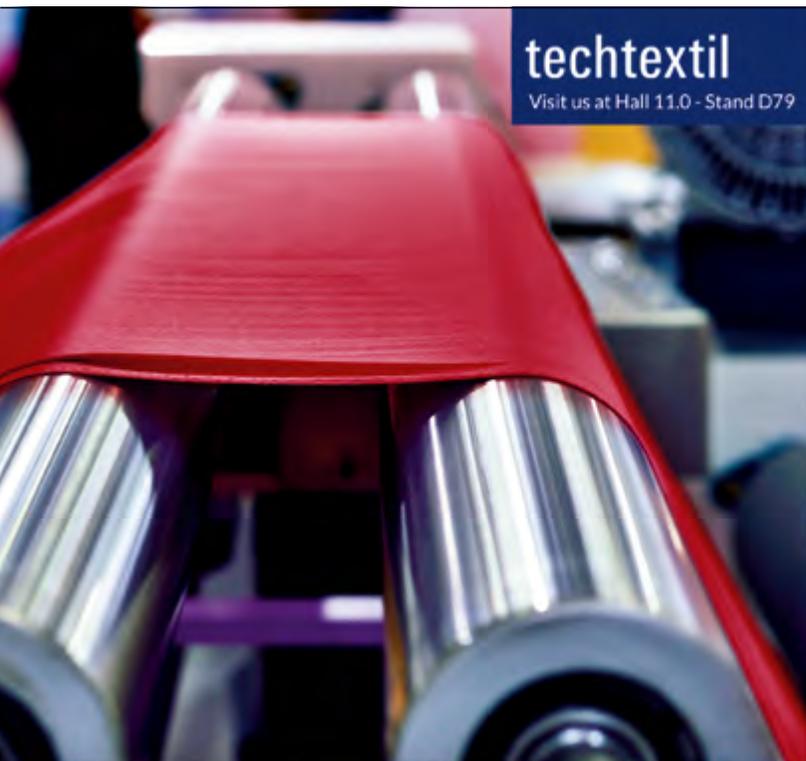


Sefar Pressense ensures pressure sensing from 0.1 to 150 N/cm<sup>2</sup>.

## Sefar Piezo-resistive pressure sensors with textile haptics

Sefar will present the innovative force-sensing resistor (FSR) fabric Sefar Pressense. Thanks to a sophisticated weaving process and stringent quality control, the robust and homogeneous fabric ensures long-term, accurate, and repeatable pressure sensing from 0.1 to 150 N/cm<sup>2</sup>. Sefar Pressense combines an ultra-thin, lightweight structure with high air permeability, enabling seamless integration into textile sensors without sacrificing user comfort.

STAND | 12.1, D02A ↖



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Sattler

## Environmentally friendly coated fabrics and membranes production

Sattler Pro-Tex offers membranes for various applications such as tensile structures, biogas storage systems, halls, tents, truck tarpaulins, and tailored fabrics for specific needs. Its products are labeled as 100% made in Austria, all fabrics meet the REACH regulation. The company drives its progress towards sustainable and economic actions and promotes environmentally friendly production. Sattler is continually investing in state-of-the-art technologies and prioritizes research and development.

STAND | 11.0, C80



Hybrid heating systems can be operated with fossil fuels and CO<sub>2</sub>-neutral energy.



Sattler follows the fundamental principles of consciousness, responsibility, and change.

66  
67

Schott & Meissner

## Hybrid heating systems

Schott & Meissner offers various solutions for its heat treatment lines to reduce the CO<sub>2</sub> emissions in the production process or to eliminate them completely. A first step to CO<sub>2</sub>-neutral heating can be realized with a Schott & Meissner hybrid heating system that can be operated both with classic fossil fuels and with CO<sub>2</sub>-neutral energy sources. The hybrid module can be offered for Schott & Meissner new machines and retrofitted to existing lines with little effort.

STAND | 12.0, C90 ←



The Saurer Technocorder TC2

Saurer

## New options for the Technocorder TC2

Saurer Twisting Solutions focuses on the 2-for-1 twisting machine, the Technocorder TC2, with new innovations and valuable customer benefits. The Technocorder TC2 is a high-performance machine for twisting single and multiple yarns. The possibilities for its flexible use are complemented by 2 new options: a fine yarn count pot and special equipment for coarse yarn counts. Those new additions expand the processible yarn count range of the gauge 670 even further and enable customers to broaden their product range.

STAND | 12.0, B52 ←

Stäubli

## New solution for 2D/3D weaving

Stäubli will present the new TF30 weaving system. This new solution meets the specific and demanding requirements of the aerospace, medical technology, marine, or automotive industries. With a variable height of rapier weft insertion, the TF30 provides high flexibility in shed programming and, thus, in weave structure. The system can handle carbon and aramid yarns, as well as ultra-sensitive ceramic yarns. Furthermore, Stäubli presents LXL Pro Jacquard machines for one-piece woven (OPW) applications.

STAND | 12.0, B01 ←



The LXL Pro Jacquard machine

Silicone-coated fiberglass duct fabric



Supertech Fabrics

## Advanced coating and laminating processes

Supertech Fabrics specializes in advanced coating and laminating processes, enhancing the intrinsic properties of textiles. Applications include conveyor belts, thermal insulations, radiant heat barriers, expansion joints, air draft fabrics, etc. In addition to its technological capabilities, Supertech Fabrics is committed to sustainability. The company prioritizes eco-friendly practices, integrating responsible chemicals and sustainable methods into its manufacturing processes.

STAND | 11.0, F22 ↖

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**Tanatex**

**Biobased textile enhancements**

The Biolutions range of products by Tanatex Chemicals are made with bio-based raw materials such as corn, linseed, and castor oil. Using this products allows customers to improve their production processes and make them more sustainable. The company's latest additions to the Biolutions range include the Edolan range of bio-based coatings and binders. All Edolan products are up to 70% bio-based. Coating systems with Edolan Bio-PB and Edolan Bio-PT meet the requirements of diverse applications.

68  
69

**Texpack**

**Sealing systems and products for high temperatures**

Texpack produces and markets industrial gaskets of different types and sizes, offering a complete range of sealing systems and products for high temperatures. With its new warehouse, Texpack is able to handle millions of items and make immediate deliveries. Storage is guaranteed by a building that holds the materials in ideal conditions.



Texpack offers sealing systems and products for high temperatures.



Metallization endows textiles with unique properties that can be utilized in a wide array of applications.

**Shieldex**

**From smart textiles to IR shielding and recycled yarn**

Shieldex's core competency lies in the refinement of textiles with metals such as silver, copper, nickel, and tin. A special highlight is the introduction of the first silver-plated Shieldex yarn made from recycled yarn, based on the Renycle technology. This innovation underscores Shieldex's commitment to sustainability. Another new development is an infrared (IR) shielding fabric. This product is of particular interest to security services, as it protects individuals and equipment from IR detection.

Smartpolymer

## Sustainable fiber family

Smartpolymer will present application examples for the functional fibers of the patented Cell Solution family. They are used in blends with other natural and synthetic fibers. The variety of functions, e.g., antibacterial, antiviral, and antifungal effects, can be adapted to customer requirements via the fiber content. The fibers are certified according to the Oeko-Tex Standard 100. Due to their moisture- and temperature-regulating and cosmetic effects, they are gentle on the skin.

STAND | 11.1. F80



The patented Cell Solution family offers various functions and effects.

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Techtextil Hall12 D91



The finished products can be delivered as roll goods or as ready-made products.

STAND | 12.1, D50

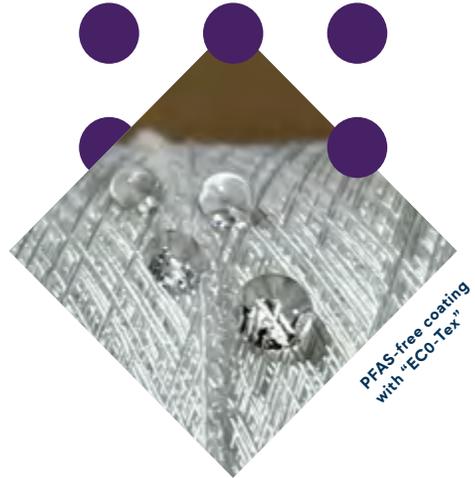
## Technische Textilien Lörrach High-performance products for technical applications

Technische Textilien Lörrach provides articles made of synthetic and natural fibers. They are produced in loomstate form or with chemical and thermal treatments. The finished products can be delivered as roll goods for further processing or as ready-made products for end-use. The product segment "filter media" offers articles for industrial dust collection; the segment "laundry textiles" has a special product portfolio for the laundry industry; and the product area "industrial textiles" is focused on individual solutions, e.g., for the automotive, aircraft, and electrical industries.

## Bäumlin & Ernst PFAS-free elastic yarns

With the new concept called Eco-Tex, Bäumlin & Ernst will be able to coat elastic yarns wafer-thin and fluorine-free, resulting in permanently water-repellent and therefore quick-drying yarns and textiles. The concept was tested with a beag X Airlastic yarn. With beag X Airlastic, Bäumlin & Ernst produces single- and double-covered elastic yarns. They are 100% knit-dye-sorted and therefore particularly suitable for use in circular knitting and weaving warp threads.

STAND | 12.1, C05



70  
71



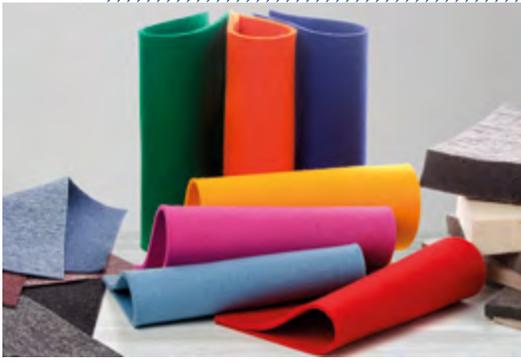
Teijin Frontier offers materials for dome roofs and outdoor activities.



## Teijin Frontier PFAS-free construction membrane materials

Teijin Frontier will show its new PFAS-free construction membrane. The polyester-based fabric is coated with a special resin for high flexibility and durability. It is suitable for use on roofs of sports pavilions and domes. Furthermore, the company has developed a fabric suitable for outdoor activities. Technoforce Steel is a high-performance material made of ultra-high molecular weight polyethylene (UHMWPE). Compared to other outdoor fabrics, it boasts the highest level of strength while being ultra-lightweight.

STAND | 12.1, C65



Textil Olius can customize the composition, color, thickness, and density of the wool felts.

Textil Olius

## Sustainable wool felts

Textil Olius offers wool felt, a nonwoven textile that leverages the natural properties of wool and the technical characteristics of nonwovens. Thanks to this unique combination, the material is suitable for a wide range of industries. The felts are an environmentally responsible choice as they are made from wool, a natural, renewable, and fully biodegradable fiber. Oeko-Tex Standard 100 and ISO 9001 certifications ensure that they are free from harmful substances.

STAND | 12.1, B46 ←

Shelton

## Patterned fabric inspection

STAND | 12.0, E54 ↖

With the latest Webspector automated fabric inspection system, Shelton has advanced the precise detection of faults during the production of technical fabrics. The company's patent-pending image processing techniques now recognize and adapt to complex patterns, even those on fabrics with significant distortion and deformation. The software ensures a clean image, allowing the full detection of faults on fabrics running at high speeds.



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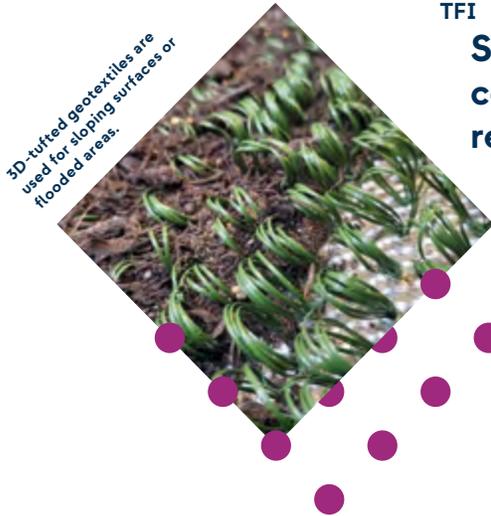
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Hall 12.0 | Stand n°B01





**TFI**  
**Successful cooperative research**

The TFI – Institut für Bodensysteme at RWTH Aachen University participates in cooperative research projects to develop new materials and products. One example is the development of 3D-tufted geotextiles used for sloping surfaces or flooded areas. They offer support for the vegetation and prevent landslides. In the IGF project 20540, a flexible “textile” heat exchanger element was developed for decentralized domestic ventilation. Furthermore, the institute cooperated in developing a bio-based artificial turf made from rapeseed oil.

**STAND | 12.1, B41B** ←

**TVU**  
**Yarn trading and yarn finishing**

At TVU Textilveredlungsunion, nearly all types of staple fibers and filament yarns can be dyed on almost all kinds of bobbins and cone make-ups. The TVU service portfolio also comprises the finishing of high-performance fiber yarns, as well as recyclable and compostable yarns in line with circular economy. TVU trades approx. 10,000 tons of yarn each year. Since yarn trading and finishing are consolidated under one roof, TVU can put together customized overall packages.

**STAND | 12.1, C40** ←



**TVU trades approx. 10,000 tons of yarn each year.**

**72**  
**73**

**Trützschler**  
**Presentation of nonwovens and spinning solutions**

Trützschler Nonwovens will spotlight the T-Suprema needle-punching lines and sustainable solutions for cellulose-based nonwovens. The T-Suprema concept is dedicated to achieving high product quality and system efficiency within the field of premium needle-punched nonwovens. Trützschler Spinning and its cooperation partner, Balkan, illustrate the advantages of their complete solutions for mechanical recycling and spinning preparation of textile waste. Visitors can also get comprehensive information on the latest Trützschler Card Clothing portfolio for the spinning and nonwovens sectors.



The T-Suprema needle-punching lines

**STAND | 12.0, C61** ←



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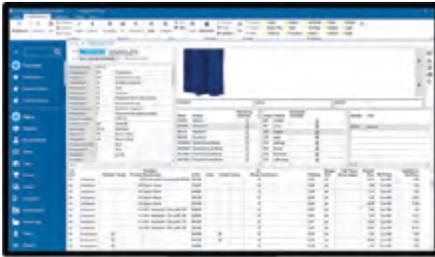


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Texware/MES bundles all areas specifically required for textile production.

## Update Texware

### Software solutions for the textile and apparel industry

Update Texware offers innovative, textile-specific software solutions for ERP, MES, PDA, business intelligence, and EDI. The industry-specific, modular standard solution texware/ERP covers all areas of a company. In addition, the new production control system texware/MES bundles all areas that are specifically required for production in textile companies. The individual modules can be seamlessly integrated into an existing IT landscape or an existing ERP system.

STAND | 12.0, E58

## van Clewe

### Contract finishing

Gerhard van Clewe will be presenting modern processes and finishing services. Visitors will be able to discover the company's diverse finishing processes, such as washing, bleaching or dyeing. In addition, the company offers customized solutions for individual finishes. The focus is on developing the desired properties of its customers and customizing their textiles. The company will demonstrate how it realizes high-quality finishes, such as for the footwear, automotive, and apparel industries.

STAND | 12.1, B43



Modern finishing services by Gerhard van Clewe

74  
75



Vandewiele's latest X4 yarn feeders provide instant benefits in terms of productivity and control.

## Vandewiele Sweden

### Yarn feeders with integrated accessory displays

Vandewiele Sweden will present its latest X4 yarn feeders with integrated accessory displays (TED). The TED function enables weft tension settings to be transferred from one machine to another, enabling a fast start-up the next time the same article is woven. The position of the S-Flex Tensioner is constantly monitored by an internal sensor. X4 feeders are also available with integrated active tension control (ATC-W) as an option.

STAND | 12.0, D20



The Vombaur flax tapes are heat- and water-resistant.

vombaur

## Biodegradable flax tapes

vombaur showcases its flax tapes, that offer a width of, e.g., 60mm. They are heat-resistant, splash-water-resistant, single-grade, and biodegradable. Flax fibers are rigid and tear-proof. Thanks to their low density, they are also lightweight. The cultivation of flax binds CO<sub>2</sub>. The crop can be grown in Europe and consumes less energy and water than cotton production.

STAND | 12.1, C58

WTFE

## GRS certification

Windel Textile Far East (WTFE) offers products made from rapidly renewable materials, recycled raw materials, or biodegradable raw materials. These include fabrics made of chitin, bamboo, or PLA, bio-based PA, rPET, or rPA 6.0, as well as biodegradable and compostable PET. All of these products will be exhibited. The company's locations in Zhangjiagang/China and Schloss Holte-Stukenbrock are certified according to the Global Recycling Standard (GRS).

STAND | 11.0, D51



WTFE established a bamboo fabric for a medical company.

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Fabric treated with Nordshield

## Ventile Fabrics

### Sustainably sourced premium fabric

Ventile Fabrics will be showcasing a range of premium sustainable fabric solutions, all with a PFC-free DWR finish. Furthermore, fabrics that have been treated with Nordshield will be shown. This biodegradable technology inhibits microorganisms by forming a durable physical layer and acting as a shield. In 2023, Ventile partnered with the Egyptian Biodynamic Association to support Egyptian farmers in applying biodynamic cotton farming methods.

STAND | 12.1, C07

## Voack

### Presentation of creative laminates

This year, Voack celebrates its 60<sup>th</sup> anniversary. The family business offers qualities that combine high breathability with a soft feel as a result of the company's lamination technology. The company will present its latest developments, a selection of creative laminates. Besides long-tested and proven products, the focus will be on mono material 4-layer softshell laminates, ultra-light 3-layer laminates, and highly elastic laminates. Another focus is on mono material, recycled, and recyclable laminates.

STAND | 11.0, A32

76  
77



The functional laminates combine high breathability with a soft feel.

Photo: saalfelden-leogang.com/Sportalpen

## Wetekam

### In-house recycling solutions

Wetekam showcases its premium monofilaments, artificial turf, and innovative 3D structural elements. Applied in various industries, the products offer quality and reliability. Customers benefit from a unique design approach and customized collaborations. Clients can choose from numerous additives, offering specific material characteristics. Wetekam's eco-innovation transforms polymer waste streams into valuable regranulate and new monofilaments. With its in-house recycling solutions, the company is taking a step towards a more sustainable future.

STAND | 9.1, B30



Tailor-made monofilaments for individual process requirements



Zwissprint can save companies around 13,500 tons of CO<sub>2</sub> per year.

Zwisstex

## Resource-saving printing method

Zwisstex showcases Zwissprint, a fast and resource-saving method of printing any pattern, shape, and color onto textiles such as knitted fabrics, woven fabrics, fleece, and artificial leather. Compared to traditional dyeing, Zwissprint can save companies around 16 million liters of water and 13,500 tons of CO<sub>2</sub> per year. The company sees applications in the areas of clothing and shoes, automotive interiors, furniture and seats, interior design, technical textiles, and more.

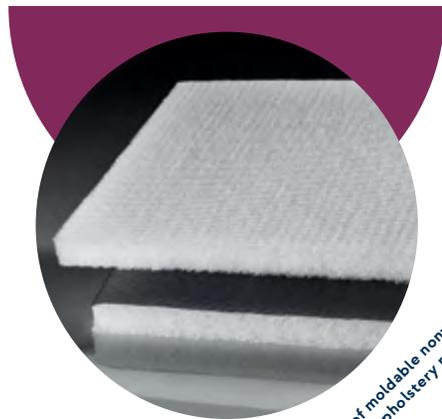
STAND | 12.1, D50 ↩

Ziegler

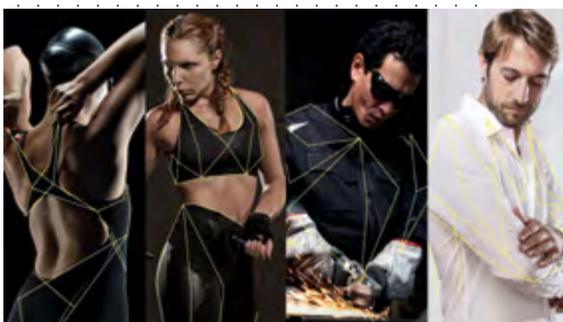
## Recyclable nonwovens

Ziegler presents mono-material nonwovens, 100% recyclable, with a high share of recycled content. Applications include seating upholstery and sound absorption for automotives, thermal and acoustic insulation, as well as furniture and bedding products. Ziegler's exhibition highlights cover a car seat cut in half with 100% PET mono-material; new solutions for acoustic wall and ceiling panels for optimized sound absorption; and 100% PET materials for molding.

STAND | 12.1, C65 ↩



Examples of moldable nonwovens and seating upholstery materials



Xlance provides comfort and support to wearers in various applications.

STAND | 9.1, B52 ←

Xlance

## Sustainable stretch solution

Xlance presents its polyolefin-based elastic Xlance yarn as a sustainable alternative to traditional spandex. During the forum, the company gives a lecture on "New Recycling Opportunities". Produced through a clean-melt spinning process, Xlance offers high durability, making it a suitable choice for garments designed to endure long-term wear. Additionally, the elastic yarn features high thermal and chemical resistance, further enhancing its longevity and performance. Thanks to its low heat-set temperature, Xlance also provides compatibility with thermosensitive fibers.



James Heal has reduced the volume of wastewater in water repellency tests.

James Heal

## Air flow and water penetration tests

James Heal's latest Airpro air permeability tester is used to test the resistance of the flow of air through woven, knitted, or nonwoven textiles. Its software offers flexibility with standards and comprehensive reporting options. The Hydroview hydrostatic head tester is meanwhile designed to measure the penetration of water in materials that have an end use that requires water resistance. With Trurain, the company has reduced the volume of wastewater and energy consumed in water repellency tests.

STAND | 12.0, A40 ←

Textest

## New FX 3370 air permeability tester Spot Air

Textest offers the new FX 3370 air permeability tester Spot Air, which determines the air permeability, the pressure drop, and the specific flow impedance at the moving web. According to the company, it is the smallest, lightest, and most versatile air permeability tester currently available on the market. For continuous use, up to 5 modules can be linked together and operated from a single PC. The profiles are displayed, evaluated, and documented in real time by the same PC that also operates the system.

STAND | 12.0, F16 ←



The Spot Air can be used manually for spot and profile measurements.

78  
79

Verivide

## Visual accuracy

For non-contact color measurement and digital imaging, Verivide's Digieye system collects and processes data that can be communicated and shared instantly. Using Digieye, manufacturers, producers, and processors can speed up quality control, sustain product integrity, and reduce waste. The system also enables the non-contact measurement of curved and textured parts and provides objective and accurate color data.

STAND | 12.0, A70 ←



Coordinating color palettes with the Verivide Digieye system

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Fibers



By automating the doffing process, the robot minimizes the need for manual intervention.

Robco

## Automatization of twisting processes

The doffing robots by Robco are specifically engineered to automate the doffing process for bobbins on the Robco Tornado twisters. This ensures a swift and efficient transition between production cycles, reducing downtime and increasing overall productivity. The robot removes finished bobbins from the spindle and places them precisely on an external tray. After successfully doffing the finished bobbin, the doffing robot will restart the Tornado, ensuring a continuous and uninterrupted production flow.

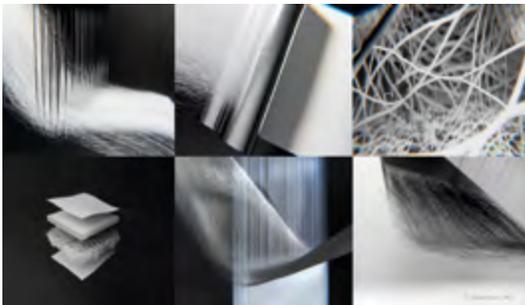
STAND | 9.1, C31

Sandler

## Symbiosis of digital experience and the look and feel of nonwovens innovation

Sandler will present its new corporate branding live for the first time at a major trade fair. Visitors will discover the symbiosis of digital experience and the look and feel of nonwovens innovation. For each production technology, video presentations and details on the latest innovations will provide insight into the world of nonwovens. Sandler's expert team will offer information on how the company's solutions make life more comfortable.

STAND | 12.1, C68



Sandler offers diverse solutions, from performance materials to sustainable alternatives.



Tensolab 50kN is configurable for testing any kind of textile or leather material.

Mesdan

## New tensile strength tester

Mesdan launched the new double column tensile strength tester Tensolab 50kN, which replaces the former models Tensolab 1000 and Tensolab 5000. It offers the testing of high-tenacity technical textile materials up to the maximum capacity of 50kN (5,000 kg) with a speed range of 0.001–800 mm/min. The equipment incorporates an industrial computer with new pre-installed software, a user-friendly graphic interface, and a large series of testing routines.

STAND | 12.0, D20 ←

Synthomer

## Low-emission polymer binder

Synthomer launched the new Revacryl Design 1555, an aqueous dispersion of a styrene acrylic acrylonitrile copolymer. With no ammonia release over drying and no formaldehyde emission in the curing oven, the binder can be used in size presses, coatings, and impregnation lines.

Synthomer's innovative solutions fulfill the requirements of several textile markets. The applications include glass fiber materials, cord impregnation, woven and nonwoven, coated abrasives, and technical papers.

STAND | 11.0, E62 ←



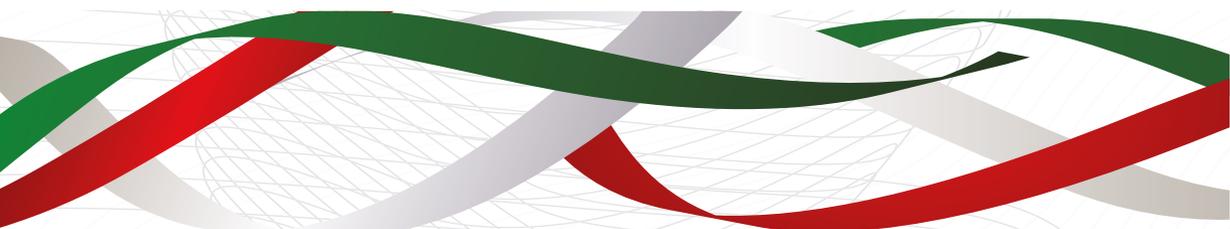
Taubert offers fully integrated production.

Taubert

## Warp-knitted technical fabrics

For 90 years, Taubert offered warp-knitted fabrics for use in gloves, laundry, medical products, and mold bases. Through fully integrated production, the company achieves high flexibility and efficiency, as well as transparency. Sustainability plays an important role in Taubert's daily activities. Energy supply with renewable raw materials as well as water and heat recovery are part of its environmental management. New products made from recycled yarns expand the collection.

STAND | 11.1, D38A ↘



# ITALIAN TEXTILE MACHINERY at TECHTEXTIL FRANKFURT

April 23–26, 2024 • Frankfurt

Visit us in Hall 12.0 -  
Booths A01, A05, A09

# Technical Textiles

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# Notes

A large grid of small dots for taking notes, covering most of the page area.

# Exhibitors on Stage



**Great companies! Great speakers!  
Great audience!**

**Don't miss it and enjoy insights and new input  
from different key players of the industry.**

## **Sneak peak:**

**Sustainable and digital on the  
way to efficient and climate-neutral  
textile finishing**

Alexander Mandel, Sales Director,  
Brückner Trockentechnik GmbH & Co. KG

**Nonwovens Production  
Optimization: Success Strategies  
for Production Performance,  
Quality and Energy Efficiency for  
Thermal Systems**

Michael Niklaus, Sales Director +  
Head of Development & Engineering,  
Autefa Solutions Germany GmbH

**Low VOC, formaldehyde, and  
ammonia free binder with high  
performances**

Daniele Zimmermann, Technical  
Service Manager Consumer Materials -  
Europe, Synthomer Germany GmbH

**Sustainable spray finishing  
for technical fabrics**

Matthias Hofmann, Key Account Manager  
Textiles and Nonwoven, WEKO Weitmann &  
Konrad GmbH & Co. KG

**Novel polyurethane reactive  
hotmelt adhesive technology  
for high-speed lamination**

Mireia Diaz, Business Development and  
Innovation Director, Morchem S.A.

**Cyber security – how to protect  
your freedom to grow**

Falk Vespermann, Global Segment  
Manager Textile & Denis Göllner, Product  
Manager System & Security, Lenze SE

**Knitted e-textiles & wearables -  
discover a world of fascinating  
possibilities**

Michael Schneider, Managing Director,  
Born GmbH



**And many more...**

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85

# Leading international trade fair for processing textile and flexible materials



## Texprocess Topics

Texprocess Forum **Page 87** | Texprocess Innovation Awards **Page 88**  
Texprocess exhibitor preview reports **Pages 89-101**

texprocess



Halls  
8.0  
9.0



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HALL :8  
BOOTH:G-42



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**texprocess**

**23 – 26.4.2024**  
**FRANKFURT / MAIN**

# Texprocess Forum 2024

**On the stage of the Texprocess, all visitors can expect decisive know-how. Texprocess Forum reflects what moves the global textile industry.**

Renowned experts from industry and research share their valuable expertise and invite visitors to exchange ideas and engage in discussions.

Are you looking for the latest digital developments and automated solutions? Would you like to discover new systems, machines, production methods and processes?

The Texprocess Forum in **Hall 9.0, B88** focuses on topics from automation, supply chains and sustainable solutions to technologies for the future.

## Tuesday, April 23

On the first day, on April 23, at **12:30 – 14:00** during the award ceremony the Techtexstil and Texprocess Awards are presented; at **14:30 – 16:30** the **Econogy Talks**, co-hosted by the Apparel Impact Institute and the VDMA show how to implement sustainability with technology. At **16:30** VDMA TFL is organizing a guided tour **“Digitalisation / AI Tour”** (also on Thursday at **16:30**).

## Wednesday/Thursday, April 24 and 25

The guided tour **“Future Materials: Regenerative? Moving Beyond Sustainability”** will take place on April 24 and 25, at **11:00** and at **14:30** in the Special Show area **“Techtextil future Materials”**. In the era of climate emergency, we are beginning to look beyond sustainability to regenerative design – but what does this really mean and how do we define regenerative textiles and materials?



## Friday, April 26

Young Professionals Friday: **08:00–12:00** Concept presentation of the workshop Masterclass Performance Fashion Design by Nora Kühner

## On every day

Smart textiles, outdoor clothing and personal protective equipment (PPE) are presented in the special show **“Performance Apparels on Stage”** in Hall 11.1, C61.

The Techtexstil and Texprocess Forums are also the starting point for numerous guided tours, such as the Econogy Tours to exciting companies with sustainable products.

**Here you can  
find the complete  
program 2024**





SPECIAL EVENT

# Texprocess Innovation Awards 2024

88  
89

Looking forward with great anticipation to discover the sector's latest and most technologically sophisticated products and processes, the Innovation Awards are genuine highlights.

Two expert juries selected the latest, most intelligent and outstanding innovations from the sector thus ensuring that all award-winning companies and their best solutions are brought to the attention of all visitors to Techtextil and Texprocess 2024.

The Texprocess Innovation Awards 2024 will be presented in an official ceremony on the opening day on **April 23 at 12:30 in Hall 9.0, B88**. The award-winning projects will be presented on the stage of the Texprocess Forum during the 4 days of the fair.

**These are the Texprocess Innovation Awards 2024:**

**Economic quality (cost minimization, time / process optimization, automation)**

- Compact finisher CF20 DesFin – Veit GmbH
- FastSewn – Innovative sewing & cutting automation – Mikkelsen Innovation ApS
- DDL-10000DX – World's first machine with feed belt – Juki Central Europe Sp. Zoo

**Innovation for quality improvement**

- Dürkopp Adler 911 Revolve – Perfection in every stitch – Dürkopp Adler GmbH

**Digitalization and AI**

- Trimclean – Valvan NV
- Standardizing movement patterns to compare textile-soft body interactions – Institute for Textile Machinery and Textile High-Performance Materials Technology at the TU Dresden (ITM)



The independent expert jury invites the visitors to **Guided Tours to the winners' stands (April 23, 2024 at 14:00, April 24, 2024 at 10:00 and 14:00)**.

# Exhibitor previews

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RSG Automation Page 93

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Sonotronic Page 101

Stratasy Page 98

Svegea Page 100

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## Z

Zünd Page 101

## Ardmel Automation Precision laydown machinery

Ardmel Automation will be showcasing its precision laydown machine and adhesives. The precision laydown machine is used in the undergarment, activewear, and leisurewear industries, particularly in the adhesive laydown of hems, waistbands, side seams, and gussets. It ensures accurate and consistent fabric placement and offers high-speed operation. Due to its user-friendly interface, only minimal training is required.

STAND | 8.0, F35 ←



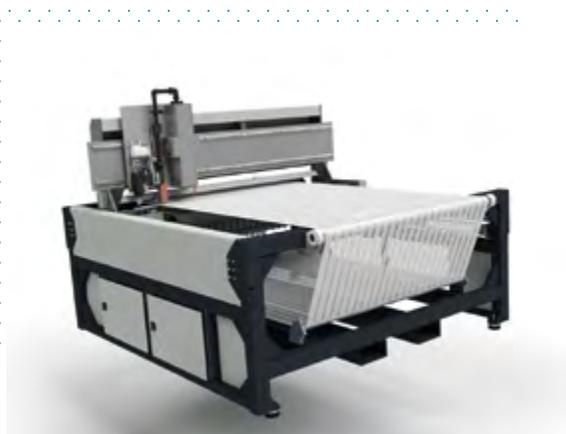
Ardmel gives in-depth insight into its products.

TEXPROCESS

# Preview

90  
|  
91

The Fastsewn automated sewing and laser cutting system



## Mikkelsen Automated sewing and cutting tables

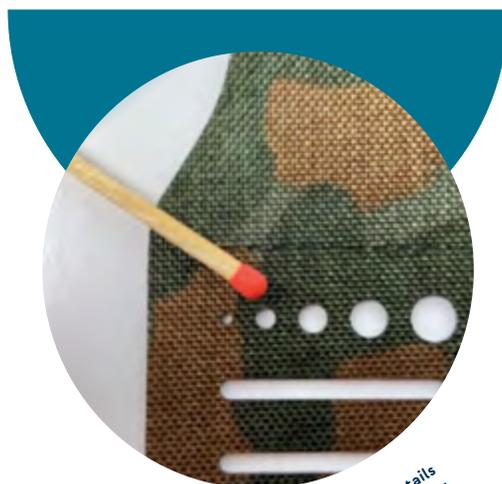
Mikkelsen has developed a new integrated sewing and cutting process. In this innovative, patented technique, the traditional flatbed cutter conveyor belt is deviated to create a moving cavity in a flat surface with an enhanced vacuum system. Within this cavity, a bobbin moves in conjunction with the sewing head, enabling easy automation of sewn goods in virtually any 2D pattern. On display at the booth will be a Fastsewn automated sewing and laser cutting system.

STAND | 9.0, A75 ←

**Eurolaser****Focus on automation**

Eurolaser's focus will be on automation. This year, laser cutting of various technical textiles will be presented on the multifunctional L-1200 laser system. In addition to the automatic feeding of textiles from the roll, the exhibition will focus on the newly developed camera recognition system and the cutting of printed material. The new camera technology significantly reduces the time required to read the registration marks. The entire working area is quickly scanned using a surface scan, thereby optimizing the process time.

**STAND | 8.0, D9** 



*Fligree details  
by laser cutting*

**Kessler's ergonomic  
sewing workstations**

**Kessler****Innovative modular tabletop system**

Originally founded in 1897, Kessler has developed into a full-range supplier of ergonomic sewing workstations. With its innovative modular tabletop system, the company not only received a worldwide patent, but also an industry award. In 2022, Kessler developed a new control, KES-2000-4.0, with an open Modbus RTU interface, memory positions, lift limits, position monitoring, etc. Today, the manufacture of customized parts and assemblies represents another important business sector.

**STAND | 9.0, A49** 



Assyst

## Key technologies for AI

Assyst presents artificial intelligence (AI) in a fully digital fashion workflow. Brands and manufacturers benefit from fast, high-quality designs, reliable fit across products, and precise cost calculations and savings. At the booth, customers can explore a fully digitized workflow hands-on. Special highlights are AI for photoshoot generation, including model generation and localization, with Style3D i Wish, or AI fashion design as a fully automated design generation, with Style3D i Create.

STAND | 8.0, C77

Assyst offers fully digitized workflows with AI.



92  
93

A-S-S

## Automatic units for outerwear garments

A-S-S is specialized in automatic sewing machines for men's and women's outerwear garments. The company is showing a new kind of pocket welt machine, BASS 3204-BS, with a matching device for checked and striped fabrics; a new engineered working station, EWS 7000, with a new driven Hohsing direct drive motor; a new engineered working station, EWS 6950; and a Bass 3050 economy pocket welt machine with a new design touch screen pane.

STAND | 8.0, E88



The new engineered working station EWS 7000

## Brother

### Innovations for apparel and non-apparel products

With more than 10 machines on its stand, Brother Industries will be showcasing its latest innovations for apparel and non-apparel products as well as in the field of industrial sewing machines. The company will show, e.g., the BM-2000 bonding machine, an innovative technology in the field of textile processing. With high precision and efficiency, the machine enables reliable and seamless bonding of textiles. Also available will be the Unison Feed UF-8910, which has been designed for precise and reliable sewing work in an industrial environment.



The BM-2000 enables reliable and seamless bonding of textiles.

STAND | 8.0, G89 ↩

## RSG

### Lanyard automatic production

The newest invention of RSG Automation Technics is a fully automatic production line for lanyards that can be fed with hooks and ribbons. After pressing the start button, a new, high-quality and monitored lanyard is produced every 8 seconds. Customers can produce lanyards with different widths of ribbon, buckles, and hooks. Keyholders are also possible. The easy-to-handle machine offers all-time availability with continuous production and reduces dependence on long supply chains.

STAND | 8.0, E27 ↩



With the lanyard automatic production line, a lanyard is produced every 8 seconds.

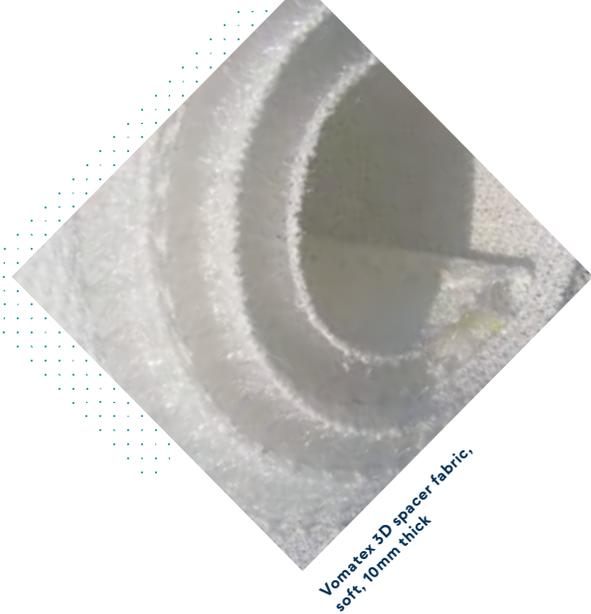


Visitors are able to test the Fraliz scissors.

## Fraliz

### 70 years of experience

With 70 years of experience, Fraliz offers a vast range of textile scissors and shears "made in Italy". The company produces high-quality products, starting from the raw forging process through various stages of finishing. There is a wide array of patterns and versions, including offset handles, rounded and blunt tips, serrated blades, and knife edges. Visitors can see the complete range and test the scissors.



Vomatex 3D spacer fabric,  
soft, 10mm thick

Vomatex

## Energy savings at ironing

The 3D spacer fabrics by Vomatex are heat-resistant, durable, elastic, and steam diffusing. The operators appreciate the convenient smooth surface and the high-pressure distribution. Generally, the soft quality at 10mm thickness is used for finishing, and the 6 mm thick hard quality for intermediate ironing. Vomatex is working on a further development of the 3D spacer fabrics by testing recycled polyester, which would enhance the ecological footprint of this energy-saving solution.

STAND | 8.0, A24 ←

Gunold

## Sustainable cotton threads

Gunold will present its latest innovations as well as the comprehensive product range of threads, nonwovens, foils, effect fabrics, and auxiliaries. There will be an offer to cut samples of nonwovens, foils, and fabrics from the rolls to test them later on other embroidery machines. One of the trade fair highlights is the sustainable cotton thread Cotty Bio in 10 classic colors on 500 m Miniking cones.

STAND | 8.0, G33 ←



The cotton used for Cotty Bio  
is GOTS-certified.

94



Impuls fashion XL – a modern and functional  
ERP system for the textile and apparel industries.

Impuls

## Software for fashion and lifestyle

Impuls has released the latest software version, Impuls fashion XL, that is developed as an industry solution for the fashion and lifestyle industries. It tailors the business processes of the apparel industry from “sheep to shop”. The software’s production cockpit enables, among other things, availability checks via material and time. For sales, procurement, and production, specialized cockpit applications provide a quick overview of all data.

STAND | 8.0, B98 ←



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The Nettuno industrial ironing table

**Battistella**

## Industrial and semi-professional ironing equipment

Battistella offers a diverse range of over 100 industrial products, encompassing industrial and semi-professional steam generators, irons, mannequins, toppers, presses, and stain removers. The company will showcase, e.g., Sirio, an automatic machine for ironing trousers capable of ironing any type of pant in a short time. For the semi-professional sector, Battistella will feature all semi-industrial products, which are an integral part of the company's catalog.

STAND | 8.0, D29

96  
97

**A&E Gütermann**

## Premium sewing threads

As the world's oldest connecting technology, sewing thread is not only a design element for clothing but also a high-tech product. A&E Gütermann stands for high-class sewing thread solutions. The company's trade fair motto is "Invention became identity – imagination becomes impact." Visitors will have the possibility to find out how Gütermann's developments and decisions have shaped the company's identity and how it will continue to turn its visions into realities.



STAND | 9.0, C10

A&E Gütermann produces sewing threads for industrial applications and private end users.



The Camper '67, revitalized from the 60s

**Niederrhein University / Multi-Plot**

## Revitalized vintage camper from the 60s

In a project, students at the Niederrhein University of Applied Sciences have revitalized a vintage camper from 1967 with new designs for the interior and camping accessories. Old, worn-out textiles were professionally replaced with new fabrics, and the "zeitgeist" of the wild 60s was reinterpreted. The fabrics were printed using the university's own printers, and Multi-Plot Europe, the owner of the camper, supplied the textiles.

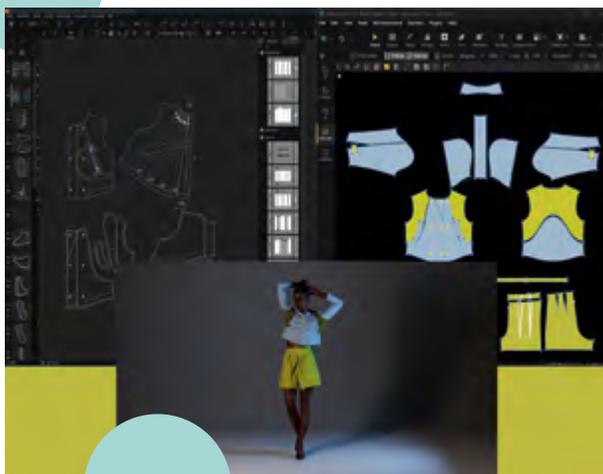
STAND | 8.0, C38

Grafis

## From style development to marketing

Grafis is showcasing Grafis 23, the latest iteration of the company's CAD solution. This version is characterized by a new intuitive and user-friendly interface. New interactive tools have been developed to simplify style development and enable fast style changes. The Grafis Plugin transfers the style data directly to V Stitcher with immediate simulation, ensuring that every change in the 2D style is directly reflected in the 3D environment.

STAND | 8.0, C91 ←



Grafis CAD suits professional pattern design.

Texprocess  
Hall 8.0  
Booth G89

## Driving innovations, stitch by stitch.

We are very pleased to announce our return as an exhibitor at Texprocess 2024 in Frankfurt. Together with our partner SIP Italy, we will show you the latest innovations in the field of industrial sewing machines.

brother





natic

## Virtual color library

natic presents 2 of its latest innovations that address the needs of the color industry. With the company's Virtual Color Library, designers can select a palette or shade and send it straight to production. Over 17,000 shades are available as instant digital standards. Furthermore, natic partnered with GMG to develop nSpire Color Cards, color-accurate references that can be printed locally in minutes. Thus, customers can optimize their color speed and costs by eliminating sample shipping from their processes.

**STAND** | 8.0, B81 ←

Stratasys

## Mindful manufacturing and circular economy

Stratasys is a founding member of the Additive Manufacturer Green Trade Association (AMGTA), which aims to create a circular economy within the 3D printing industry. The goal is to encourage the research and implementation of new technologies and practices that will lessen the environmental impact of 3D printing. The company is also committed to mindful manufacturing and the delivery of industry-specific innovation that ensures a positive impact on environmental, social, and governance strategies.



Stratasys aims to create a circular economy within the 3D printing industry.

98  
99

**STAND** | 8.0, D28 ←



The DDL-1000DX for 3-dimensional sewing

Juki

## Sewing machine with feed belts

Juki presents the sewing machine DDL-1000DX, which is, according to the company, the world's 1<sup>st</sup> sewing machine with feed belts. The 6 feed belts in total assist in feeding the fabric with any kind of material and pattern, instead of the operator's handling. By making suitable feed adjustments, the machine can easily perform the infeed and stretching for 3-dimensional sewing processes.

**STAND** | 9.0, B71 ←



Merdan dyes are produced from residuals of natural vegetables.

Colorkim

## New range of natural textile dyes

Colorkim has developed a new range of Merdan natural textile dyes for sustainable and clean industrial coloring of textiles. They are produced only from residuals of natural vegetables, herbs, flowers, roots, and wild tree leaves. They are completely ecological and do not contain any harmful substances. Merdan dyes are good for coloring organic cotton, linen, regenerated cellulose, and recycled cellulose materials as well as some synthetics.

STAND | 8.0, C61B ←

invention  
became  
identity.

The origin of our many achievements.

**AE Gütermann**

imagination  
becomes  
impact.

Turning our visions into impressive realities.

Visit us!  
**Texprocess 2024**  
April 23 – 26  
Hall 9.0 Booth C10

[guetermann.com](http://guetermann.com)



The Eton product carriers are fully managed by the latest Etoningenious software.



Eton

## Fully automated and digitized handling solutions

Eton Systems demonstrates its fully automated and digitized handling solutions for finished garments, home textiles, and furniture. Designed to increase value-added time in production, the individually addressable product carriers are fully managed and controlled by the latest Etoningenious software. This web-based real-time data collection and information system continuously accumulates, processes, and makes all production information instantly available to supervisors, quality control personnel, and management.

STAND | 8.0, F31

100  
101

Svegea

## Colarette technology for garment production

Svegea will demonstrate its EC 300-XS colarette technology, which is used by garment manufacturers for the production of tubular apparel components. The model shown at Texprocess is equipped with the latest E-Drive II system, providing the operator with a user-friendly touchscreen for full control of the cutting process. An accompanying FA 350 fully automatic roll slitting machine will also be demonstrated. A key function is the ability to ensure synchronization of the tubular fabric between the machine's turntable platform and its upper cutting body.

STAND | 8.0, D49



The EC 300-XS colarette cutter



Zünd has created a workflow for state-of-the-art, digital textile cutting.

Zünd

## Feature recognition and a new roll handling system

Zünd will be presenting technological highlights for an efficient and automated approach to integrated, digital textile cutting. This will include the latest version of the production software, Mindcut Studio Production, and the new roll handling system (RHS) for autonomous and uninterrupted roll feeding and cutting. The Zünd G3 cutter as the center of a digital-cutting workflow will also be shown. The cutting system on display will be an L-2500-size machine capable of processing fabric rolls up to a width of 1.8 m.

STAND | 8.0, C57

Pfaff Industrial & KSL

## Innovative sustainable joining

Pfaff Industrial & KSL, together with Dürkopp Adler and Sonotronic, will be presenting innovative and high-performance solutions for the garment, industrial, CNC, and welding areas. In the garment section, the company will be showing quality-enhancing solutions for the production of high-quality jackets. With Pfaff SSD, a process-reliable skip stitch detection system for double chainstitch machines will be presented for the 1<sup>st</sup> time. Areas of application are closing or topstitching seams in garment or airbag productions.

STAND | 9.0, B26



The updated PFAFF 8303ix has a new tape cutting and guiding concept.

# Notes

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**102**  

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**103**

# Fair Guide

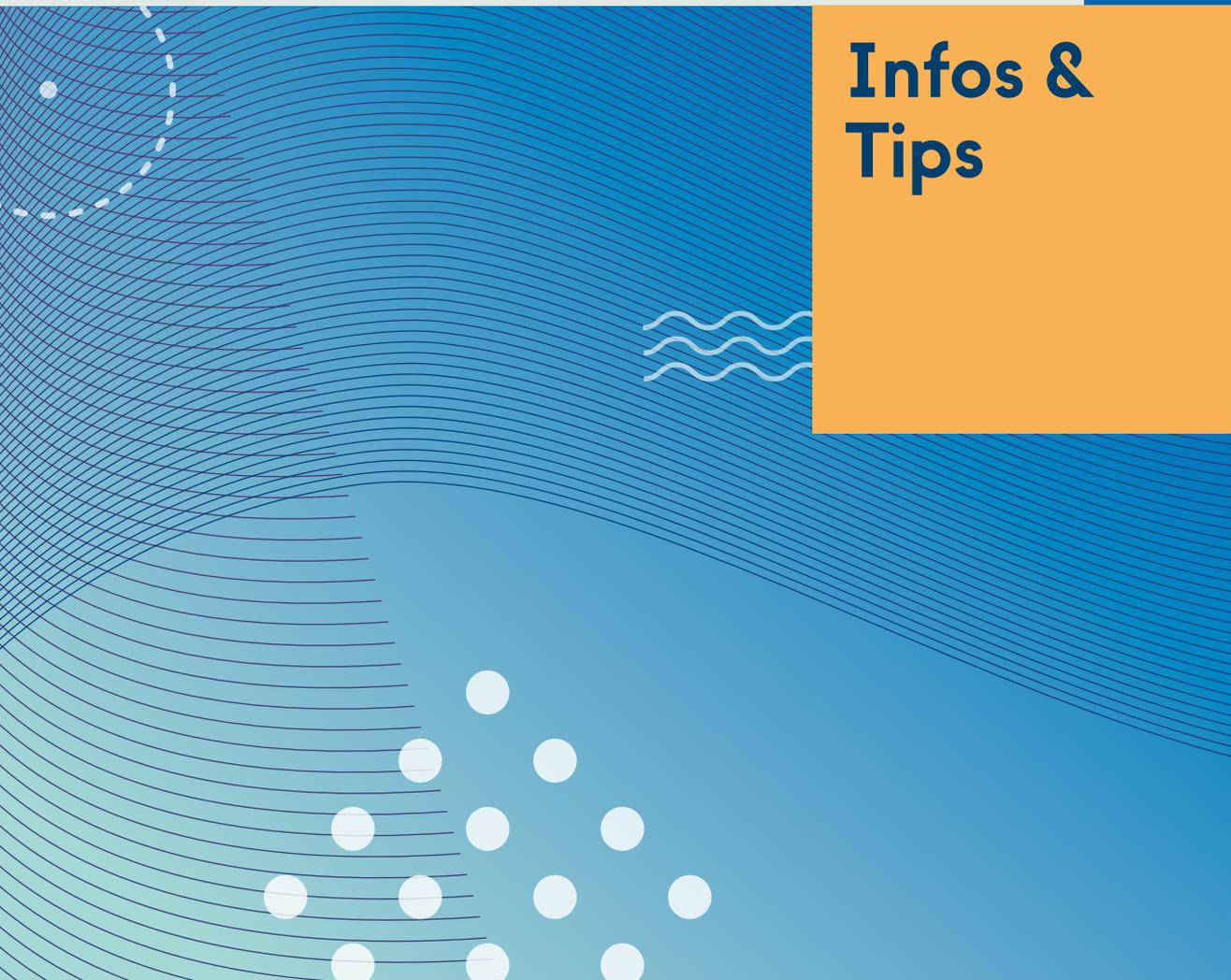
Infos, tips and favorite places  
in Frankfurt/Main

techtex

process

## Fair Guide Topics

Texprocess Talk: All about denim **Page 105** | Nature Performance Area **Pages 106–107**  
Fair infos **Pages 108–109** | Techtex and Texprocess halls **Pages 110–111**  
Tips and favorite places in Frankfurt **Pages 113–117**



Infos &  
Tips

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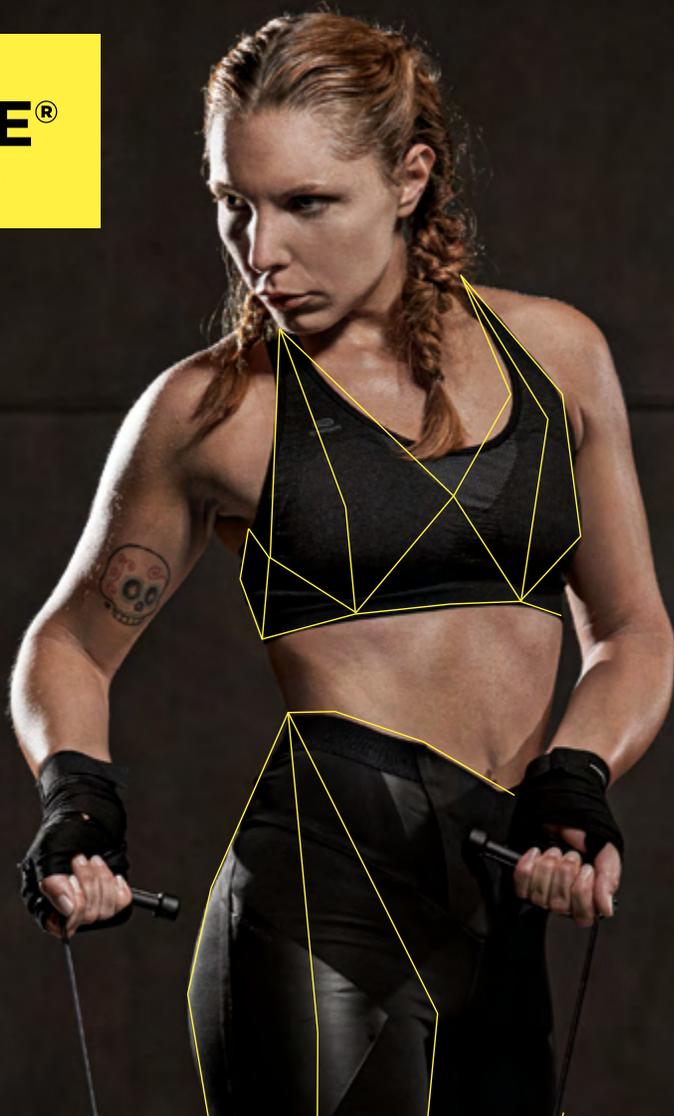
XLANCE® makes anything elastic

## POWER

XLANCE® makes elasticity durable

## ECO

XLANCE® makes elasticity sustainable



**Find us at Techtexil at Hall 9.1, Booth B52.**

Don't miss our lecture on April 23, at 15:50: *'Polyolefin-based elastic fiber opening new recycling opportunities for textiles'*.



DENIM TALKS

# All about denim

The Denim Talks take place daily from 10 a.m. to 4 p.m. (Hall 8.0, D20), on the last day of the fair until 2 p.m.

At Texprocess, the Denim Talks put the spotlight on the future of the denim industry. With current topics and discussions, exhibitors and industry experts invite to experience the future of the denim industry in a new way. Visitors will gain insights into circular strategies and new processing technologies and meet innovative suppliers and players. From innovative technologies for denim production and jeans processing to circular recycling strategies – in the Denim Talks, exhibitors and experts provide first-class insights and sustainable approaches to the topics of washing, destroying, bleaching, laser, dyeing, recycling and upcycling or customizing.



The program includes presentations by:

The latest innovations for denim finishing  
**Enrico Cartabbia**  
**Macpi Americas**

Revolutionizing textile recycling:  
The Sântis Textiles RCO100 system and a family company changing the textile industry  
**Annabelle Hutter**  
**Sântis Textiles AG**

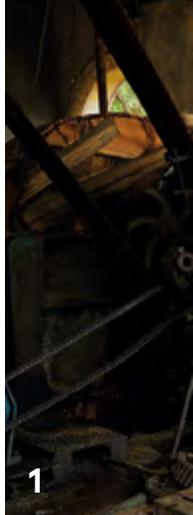
Denim sustainability – a nexus approach  
**Abdul Jabbaer Athar**  
**US Apparel & Textiles**

See how Stratasys Advanced 3DFashion direct-to-textile 3D printing technology is disrupting the industry  
**Hannes Kalz, Michael Paetzold**  
**Stratasys**



Texprocess Denim Talks

# Nature Performance Area



**Sustainability is playing an increasingly important role in all fields of application for technical textiles and textile technologies. For this reason, Techtextil is placing a special focus on this topic of the future. Can nature and performance come together in one fiber or material? Of course!**

**106** **A separate area is dedicated to these promising**  
**107** **products. Experience innovative natural fibers.**

The technical highlight in this context is the new Nature Performance Area in the Fibers & Yarns product segment. The driving forces behind the development of sustainable solutions in the textile industry are not just ecological benefits. Today, sustainable products and processes are in no way inferior to conventional comparable products in terms of performance and are also increasingly paying off economically. More than 15% of the exhibitors at Techtextil already have natural fibers and materials in their product ranges.

In the new Nature Performance Area, exhibitors present modern, alternative, recyclable and sustainable materials with future-proof functional properties. The spectrum ranges from natural fibers and materials to bio-based fibers and materials. The exhibitors' presentations will focus on their performance for various areas of application, from architecture, construction, mobility and medicine to the clothing industry.

Sustainability works particularly well in collaboration with research, manufacturing companies,

brands and new technologies. Good visibility of innovations and new developments is also required. In the same area, the renowned trend and future agency FranklinTill will provide exciting insights into the current state of regenerative design. Under the title Future Materials, FranklinTill curates and honors visionary designers and producers who are making a special contribution in this field. The globally oriented materials library showcases cutting-edge textiles, successful approaches and progressive projects, opening up new perspectives for products, partnerships and networks.

## 1. Enriching communities

### **What does this really mean and how do we define regenerative textiles and materials?**

Product designer Fernando Laposse collaborates with local communities in his home country of Mexico, transforming natural materials into beautiful design objects. Regenerating traditional agricultural practices, his projects provide fair pay and empower vulnerable communities.





Fernando Laposse  
(Photo: Pepe Molina)



Ongoing work with the agave plant – a cactus used to make tequila – is reviving a local community’s land destroyed by modern farming. Sisal – derived from agave leaves – is a strong fibrous material widely used before the onset of plastic, which Laposse now uses in a range of striking ‘hairy’ furniture. Growing agave in a network of trenches allows farmers to capture water and repopulate fields, while the wider community produces Laposse’s sisal pieces. Generating regular income, this project illustrates how the power of design can regenerate environmental and social ecosystems.

## 2. Replenishing the land

### How can we grow and harvest materials in a way that has a positive impact on the land?

UK materials science company Ponda makes planet-positive textiles from plant-based raw materials. Restoring damaged ecosystems through regenerative agriculture, they are creating future-thinking supply chains.

Sourcing materials through farming projects in England, Scotland and Germany, Ponda designs restorative farming practices to benefit each local



BioPuff® (Photo: Ponda)



Climafibre by Jessica Redgrave  
(Photo: Jack Johnstone)

environment’s needs. Methods include the removal of invasive crops, and re-wetting dried-out peatlands to restore ecosystems and nurture carbon levels. BioPuff® is a fiber filler material with insulating properties made from bulrush plants grown on wetlands. Created with low-energy, waterless processes, this high-performance product naturally biodegrades in compostable conditions, safely re-entering the environment with a traceable life span.

## 3. Restoring biodiversity

### How can we revive plant and wildlife ecosystems damaged by modern material supply chains?

Led by multidisciplinary designer Jess Redgrave, UK-based Climafibre is working on material solutions for the fashion industry that support regenerative farming and food systems using sunflowers. When companioned and rotated with other food crops, sunflowers help replenish soil and boost biodiversity thanks to their extensive root system. A species that can be grown globally and requires minimal intervention, fertilizers or watering, sunflowers’ resilience offers huge potential for climate change adaptation. Using the whole plant, Climafibre produces fiber for textiles from the stem, natural dyes from the flower and water-resistant coatings from sunflower seed oil industry by-products.

# Fair Infos



## Opening times:

**April 23–25, 2024** 9 a.m. – 6 p.m.

**April 26, 2024** 9 a.m. – 5 p.m.

### Admission 2024 for visitors

The trade fair is only open to trade visitors; there is no entry for private visitors.

With the purchase of one ticket, Techtexsil and Texprocess can be visited at the same time.

### Information for your barrier-free trade fair visit

For questions, suggestions or tips, the information hotline for people with disabilities is always at your disposal.

Phone + 49 69 75 75-69 99  
barrier-free@messefrankfurt.com

### Free local public-transport with ticket

All admission tickets (except complimentary tickets) include free travel using local public-transport services operated by the RMV public-transport authority throughout the entire area covered by the authority. Tickets purchased on arrival at the fair only entitle the user to travel back from Messe Frankfurt free of charge.

### Wheelchair and mobility scooter loan service

During the trade fair, you have the option of borrowing wheelchairs and scooters for a deposit of € 50 from the Operation & Security Center (OSC) in hall 4 and in the clinic in hall 8.0.

**Hall 4.0, OSC:** +49 69 75 75-65 00

**Hall 8.0:** +49 69 75 75-65 02

### Restaurants, Snack and Coffee Bars

Here, you can find an overview of all the restaurants, markets, snack bars and café bars on the exhibition center site.



[www.accente.com/en/messegastronomie/restaurant/typusg/50](http://www.accente.com/en/messegastronomie/restaurant/typusg/50)

### Prayer room during Techtextil & Texprocess

#### Catholic pastoral care

The Trade Fair Chaplaincy is offered by the Catholic City Church of Frankfurt and is supported by the Diocese of Limburg. The church center is located in Torhaus level 4.

#### Muslim prayer room

During the trade fairs opening hours you will find the Muslim prayer room in Hall 4.2



## ATMs

Reisebank: Entrance Galleria (Hall 9.T)  
Entrance Portalhaus (Hall 11)  
Entrance Torhaus (S-Bahn terminal)

## Cash sales

Direct and cash sales to visitors are not permitted. The staff at the exit controls is required to send visitors with purchased products back to the exhibitor.

## Team office

Service Center Torhaus, Level 2

### Opening hours:

Tuesday, 23.04.2024 to Thursday, 25.04.2024  
8:00 a.m. to 6:30 p.m.  
Friday, 26.04.2024: 8:00 a.m. to 5:30 p.m.

### Contact:

Phone: +49 69 75 75-13 26 / -13 27 / -13 28  
Fax: +49 69 75 75-13 25

## Digital services

Use the digital services to optimize your trade fair presence. You can find out which highlights are taking place where and when conveniently on the move in the trade fair apps.

### Techtextil app:

<https://techtextil.messefrankfurt.com/frankfurt/en/planning-preparation.html#app>

### Texprocess app:

<https://texprocess.messefrankfurt.com/frankfurt/en/planning-preparation.html#app>

With the free apps, you can keep an eye on the exhibition grounds, the exhibitor and product search as well as all events and updates.

**New this time:** With the matchmaking function, you can network before and after the trade fair and get in touch with your business contacts.

### WLAN at Techtextil:

<https://techtextil.messefrankfurt.com/frankfurt/de/ausstellerservices/standbau/wlan.html>

### WLAN at Texprocess:

<https://texprocess.messefrankfurt.com/frankfurt/de/ausstellerservices/standbau/wlan.html>

Wireless and free surfing on the exhibition grounds during Messe Frankfurt's own events.

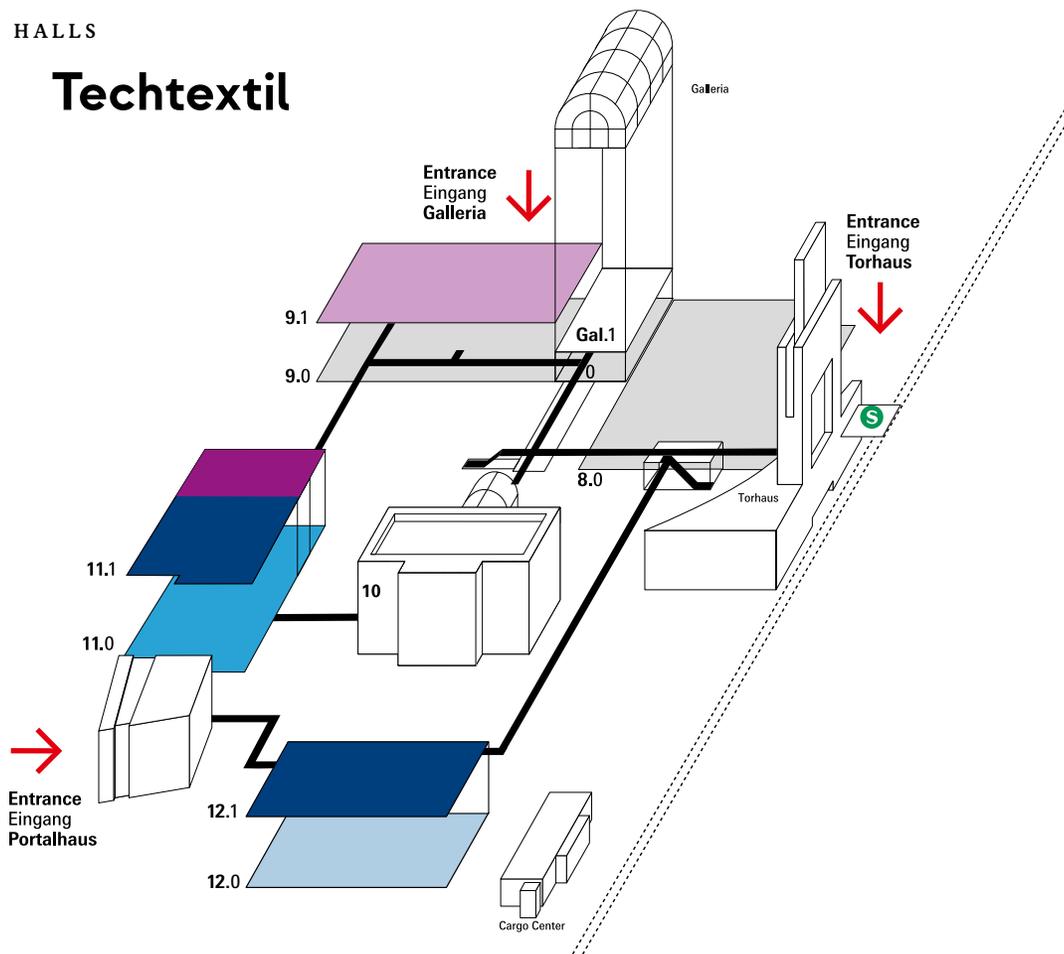
Access is suitable for visiting websites and occasionally checking and sending e-mails. The maximum bandwidth is 1 Mbit/s per user. Depending on the location and number of users on the exhibition grounds, the bandwidth may be lower.

For the transmission of large amounts of data, such as VoIP telephony, video streaming, press photos, presentations, etc., exhibitors require individual WLAN products, which they can order for a fee in the Shop for Exhibitor Services.

### Contact:

Telecommunications Team  
Phone +49 69 75 75-71 17 7  
E-mail: [telekommunikation@messefrankfurt.com](mailto:telekommunikation@messefrankfurt.com)

# Techtextil



110  
111



**9.1**

- Fibers, yarns



**11.1**

- Textile materials: wovens, nonwovens, laid webs, braidings, knitted fabrics



**11.0**

- Coated textiles, composites, Bondtec



**12.0**

- Production technologies



**11.0**

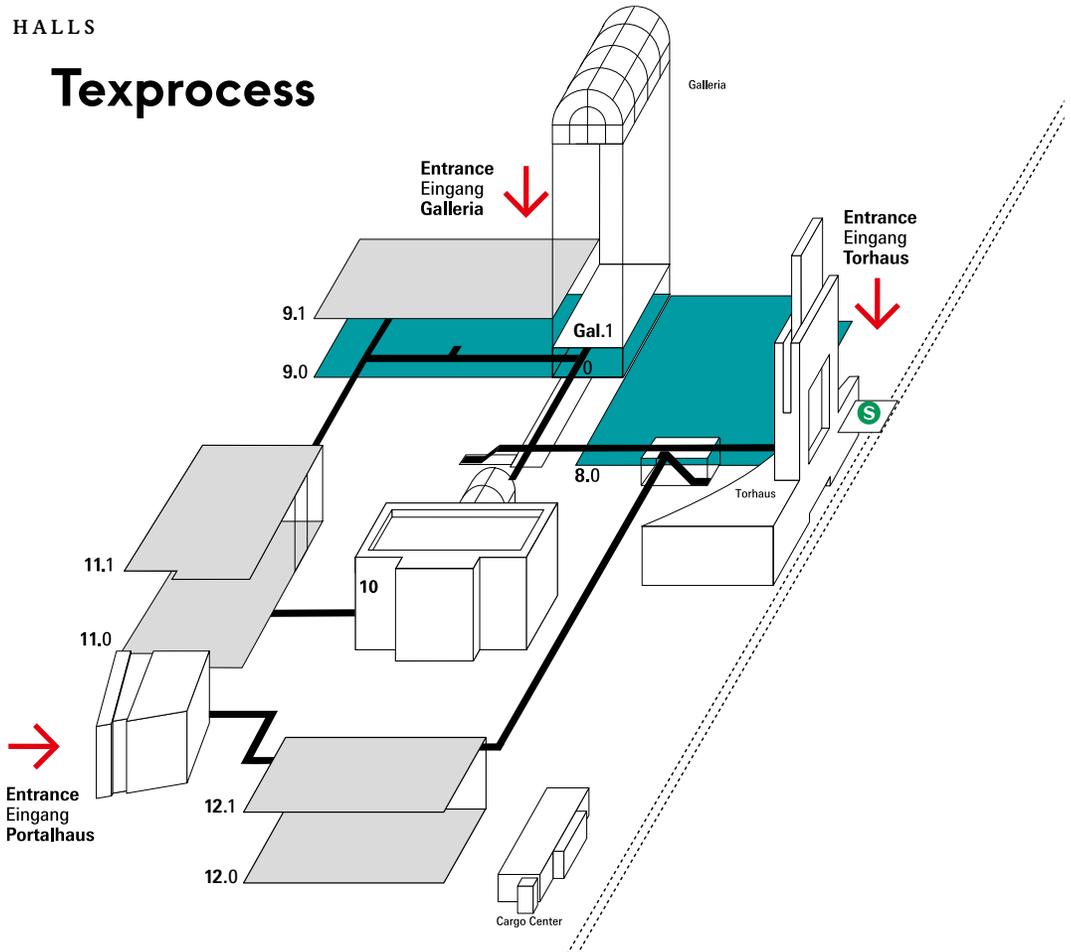
- Functional apparel textiles



**12.1**

- Textile materials: wovens, nonwovens, laid webs, braidings, knitted fabrics

# Texprocess



## 8.0, 9.0, Gal. 0

- CAD/CAM (2D/3D/4D)
- CMT (Cutting, Making, Trimming)
- Knitting technology
- Embroidery technology
- Sewing technologies and materials
- Joining and fastening technologies and materials
- Textile treatment
- Printing technologies
- Finishing
- Digitalization and automatization
- Sustainable technologies
- Quality control and certification
- Intralogistics
- Packaging and transport logistics
- Information technology
- Research, development, education, consulting

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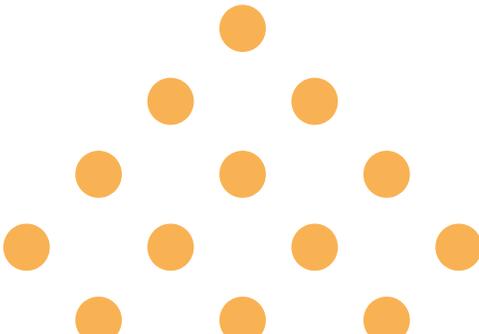
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Trends

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Fibers

FRANKFURT AM MAIN

# Insider tips from our editorial team



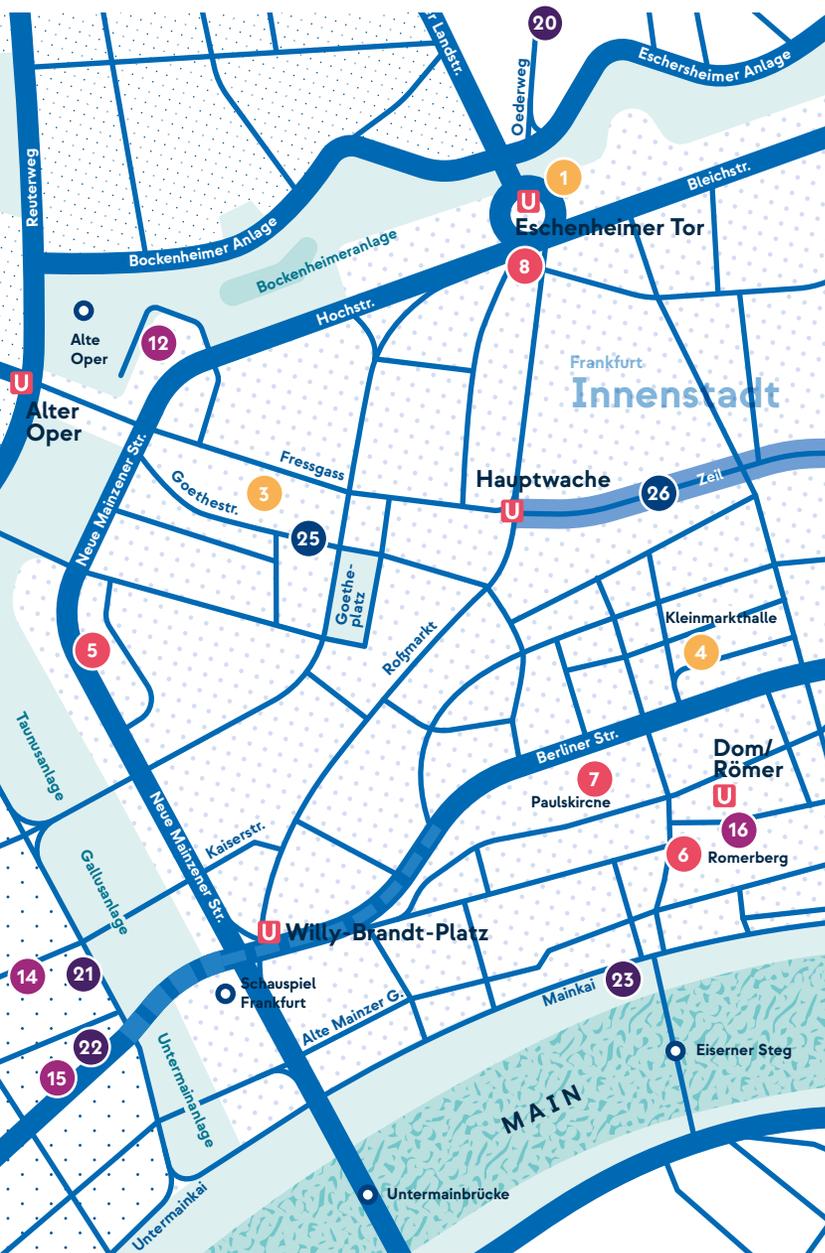


FRANKFURT AM MAIN - "HIBB DE BACH"

# Places to be

Discover what else there is to see around the trade fair and in the city of Frankfurt.





## Restaurants

- 9 Via Mont Napoleone, Bockenheimer Landstraße 55
- 10 Stadtsalat, Bockenheimer Landstraße 59
- 11 Rahmen Jun, Wilhelm-Hauff-Straße 10
- 12 Papa Enj, Opernplatz 12
- 13 Zhenzakan, Taunusanlage 15
- 14 Calma Caos, Kaiserstraße 39
- 15 Im Herzen Afrikas, Gutleutstraße 13
- 16 Badias, Schirn Kunsthalle, Römerberg

## Bars

- 17 Champions Bar, Hamburger Allee 2
- 18 Jimmy's Bar, Friedrich-Ebert-Anlage 40
- 19 The Fox and Hound, Niedenau 2
- 20 Cosmic, Oeder Weg 38
- 21 AMP, Gallusanlage 2
- 22 Weinbar Frank W., Gutleutstraße 15
- 23 Nox am Main, Mainkai 35 a

## Shopping

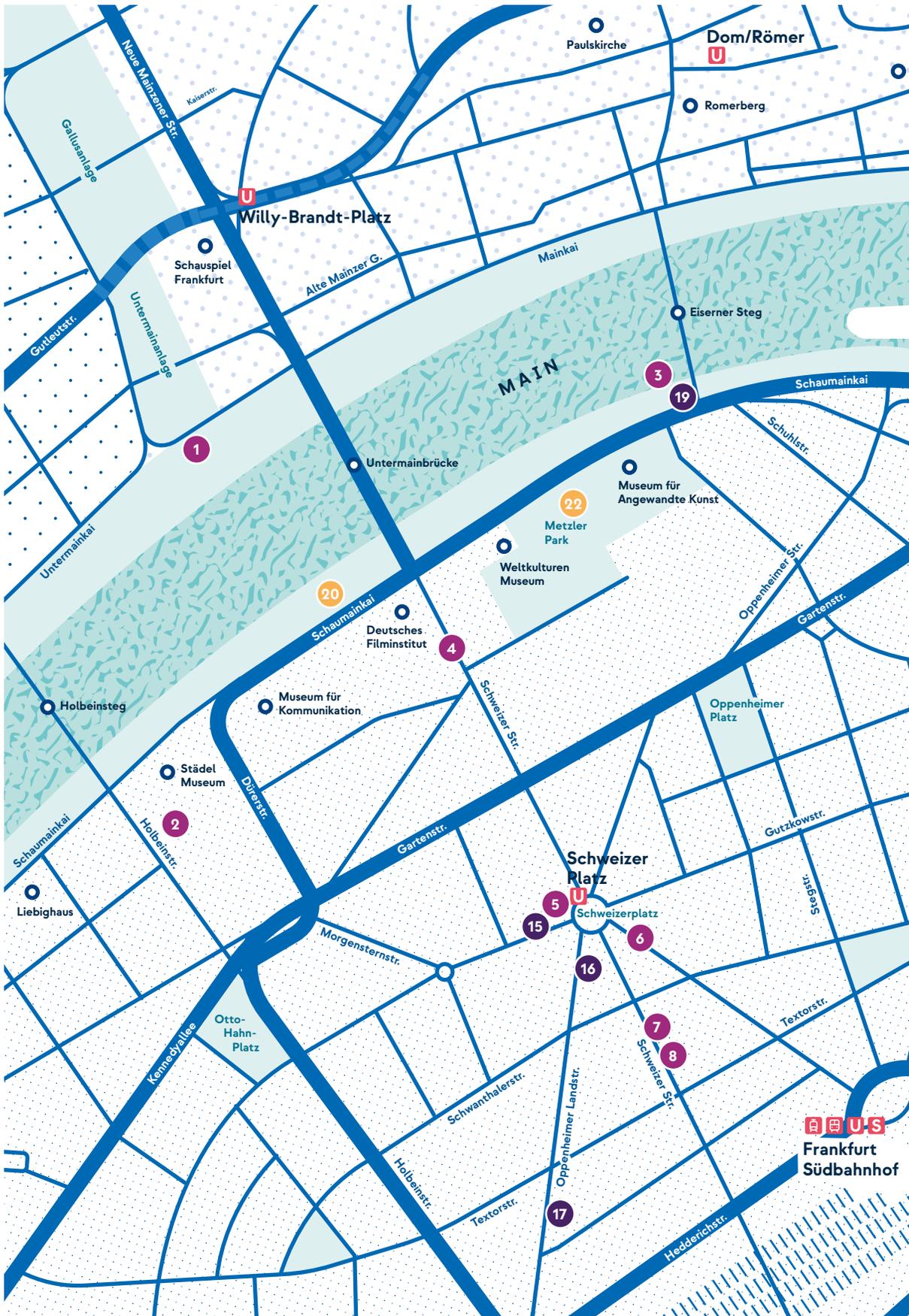
- 24 Skyline Plaza, Europa Allee 6
- 25 Goethestraße
- 26 Zeil: Hauptwache - Kontablerwache

## Insider tips

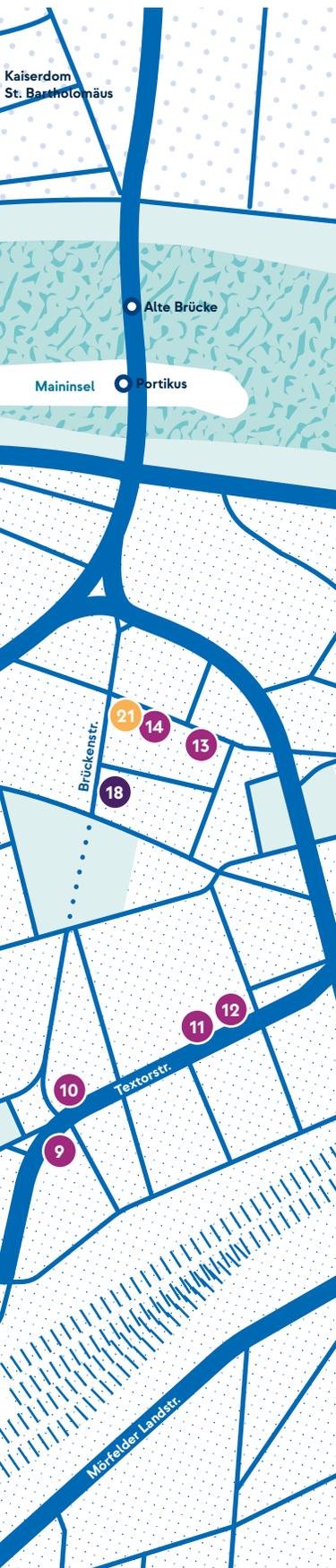
- 1 Paternoster in the Hotel Flemmings to LugInsLand Main Skyline Restaurant & Bar Eschenheimer Tor 2
- 2 NFT Skybar in the nhow, Brüsseler Straße 1-3
- 3 Bodega Barcelona, Kleine Bockenheimer Straße 10
- 4 Kleinmarkthalle, Hasengasse 5-7

## Places to see

- 5 Maintower, Neue Mainzer Straße 52-58
- 6 Römer and Altstadt, Römerberg
- 7 Paulskirche, Paulsplatz 11
- 8 Eschenheimer Turm, Eschenheimer Tor 1



**U S**  
Frankfurt  
Südbahnhof



# By night

Do you want to relax after an exciting and eventful day at the trade fair? The lively district of Sachsenhausen, directly on the southern bank of the Main, is known for its many restaurants and bars.

## Restaurants

- 1 Main Nizza, Untermainkai 17
- 2 Holbein's, Holbeinstraße 1
- 3 Bootshaus Frau Rauscher auf dem Main, Schaumainkai 1001 / Eiserner Steg
- 4 La Trinca, Schweizer Straße 14
- 5 Estela, Schweizer Straße 56
- 6 A Tavola, Diesterwegstraße 4
- 7 Zum Gemalten Haus, Schweizer Straße 67
- 8 Apfelwein Wagner, Schweizer Straße 71
- 9 Depot 1899, Textorstraße 33
- 10 Hummus Küch', Textorstraße 38
- 11 Kanonensteppel, Textorstraße 20
- 12 Zur Germania, Textorstraße 16

- 13 Atschel, Wallstraße 7
- 14 Coq Au Vin, Wallstraße 19

## Bars

- 15 Hoppers Bar, Schneckenhofstraße 8
- 16 Bar Paris, Oppenheimer Landstraße 27
- 17 Weinpfalz, Oppenheimer Landstraße 61
- 18 Wein35, Brückenstraße 35
- 19 Main Terrasse, Schaumainkai 5

## Insider tips

- 20 Maincafé, Schaumainkai 50
- 21 Lobster, Wallstraße 21
- 22 Emma Metzler, Schaumainkai 17

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APRIL 23 — 26, 2024

# Notes

A large grid of small dots for taking notes, consisting of 20 columns and 40 rows of dots.

# See you in 2026

in Frankfurt/Main.

120

121

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» Single Belt Oven *RegulAir Series*

3

4



» Drum Oven *Series*



» Belt Press *Thermofix® Series*

- 1 Double Belt Oven *TopCon Series*
  - » Homotech (Wadding, Furniture, Carpet)
  - » Buildtech (Insulation)
  - » Mobiltech (Automotive, Interior covering)

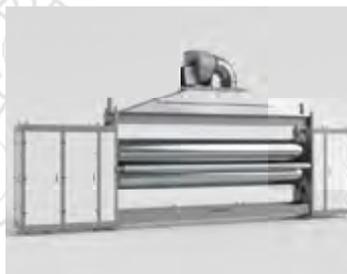
- 2 Single Belt Oven *RegulAir Series*
  - » Medtech (Hygiene)
  - » Indutech (Filtration, Separation)
  - » Transportation (Automotive)

- 3 Drum Oven *Series*
  - » Geotech (Roofing felts)
  - » Medtech (Hygiene)
  - » Mobiltech (Automotive)

- 4 Belt Press *Thermofix® Series*
  - » Mobiltech (Composites, Interior coverings)
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