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Will textiles become great again in America?

Manufacturers presented brand-new technology at an overwhelming ITM 2018

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From the editor

Dear Reader,

have you ever experienced participating in an event is a lasting memory, simply because the mood was fantastic. Such an event was certainly for textile people as well as textile machinery manufacturers the ITMA 2015 in Milan. And such an event was also the ITM 2018 in Istanbul. The organizer had not promised too much when he had announced a record breaking fair in advance. We take a look back at a well-attended trade fair, where, surprisingly, brand-new technical innovations were presented for the first time.

We would also like to introduce you to some of these individual technical innovations in separate articles, as they offer enormous potential in productivity growth as well as in cost savings.

For sure, we will also look ahead. The even years are particularly special for textiles in the USA, because here, every two years, the exhibition double of Techtextil NA and Texprocess Americas takes place. "Make America great again" calls on President Donald Trump and the fairs will certainly be an indicator of whether this applies to the textile industry as well.



We are as always looking forward to your comments and suggestions to redaktion@texdata.com.

Best regards Oliver Schmidt "Our customers benefit from our sustainable e-save solutions for the production of manmade fibers within growth markets like textile and apparel, infrastructure, transportation, food, energy and electronics."

Georg Stausberg, CEO Oerlikon Manmade Fibers Segment

From Melt to Yarn, Fibers and Nonwovens

It all starts with a few chemicals. Transforming these into smart clothing, technical textiles or tire cord requires great ideas, outstanding equipment and sophisticated processes.

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From Melt to Yarn, Fibers and Nonwovens.





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Techtextil North America and Texprocess Americas continue to grow

Will textiles become great

techtextil

TECH

TALKS

TRAP HIL

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In a few days, the 15th edition of Techtextil North America and the fourth edition of Texprocess Americas will return to Atlanta. The co-located events will be held in from May 22-24 in Hall B at the Georgia World Congress Center. While Techtextil North America is the only trade show in the Americas dedicated to technical textiles and nonwovens, Texprocess Americas is the largest North American trade fair for the equipment and technology for the development, sourcing, and production of sewn products. The Techtextil NA website lists 552 exhibitors from across the globe representing all aspects of the technical textiles, nonwovens, sewn products, textile technology and equipment sectors.

The 2016 events hosted over 500 exhibitors from 33 countries attracting over 9,000 visitors while the 2017 Techtextil North America show hosted 167 exhibitors from 16 countries. The co-located event with JEC Americas attracted 3,096 visitors from around the world representing Apple, Tesla, Reebok and more. This fourteenth edition of Techtextil North America took place in Chicago, Illinois and was the fifth edition of Techtextil North America hosted outside of Atlanta, held in the even years, and the first of its kind in Chicago. The 2017 show once again was a big success and saw a 15% increase in total number of exhibitors over the 2015 edition held in Houston, Texas, with 60% growth in space rented by overseas exhibitors. "I've been impressed with the diversity of suppliers at the show. I've met with companies from around the globe and am happy to see representation from countries like Germany and China, as well as companies focusing on American made products. We're looking for durable and disposable nonwovens and have been very pleased," Fred Langdon, Senior Engineer at Proctor & Gamble said in his 2017 edition conclusion.

Furthermore, the Techtextil North America has been named one of Trade Show Executive's 50 Fastest Growing shows of 2017. It is one of the few shows included in all three categories: net square feet of paid exhibit space, number of exhibiting companies and total attendance. "It is an honor to be recognized for our hard work and commitment to the industries we serve," said Kristy Meade, Show Director. "We have a wonderful network of exhibitors and industry partners who have helped us make this show what it is today, and we look forward to continued growth and success together."

With a number of 295 most of the exhibitors for the coming 2018 edition come from the USA, followed by Germany (66), China (48) and Italy (36). The biggest company booths are occupied by DAP America (Dürkopp Adler and Pfaff Industrial), Juki America, Gerber Technology, Lectra and Veit.

,High-Tex from Germany' presents textile innovations in the USA

66 companies from the German textile, textile-machinery and garment-technology industries will make presentations at the 'High-Tex from Germany' exhibition within the framework of the Techtextil North America and Texprocess Americas trade fairs in Atlanta May 22-24, 2018. 'High-Tex from Germany' is hosted by the Federal Ministry of Economics and Energy (Bundesministerium für Wirtschaft und Energie – BMWi) and the Association of the German Trade Fair Industry (Messeausschuss der Deutschen Wirtschaft e.V. – AUMA). Elaborately designed and covering an area of more than 1,300 square metres, the exhibition shows textile innovations 'made in Germany' from the fields of technical textiles, nonwovens, textile-processing machines, smart textiles and textile research.





Due to its intelligent concept, the TWIN version is compact and requires little space.

Is it possible to achieve maximum economic efficiency and reliability in the smallest spaces?

The answer is a definite Yes when it comes to our new TWIN breaker Draw Frame TD 9T. It is a twin draw frame, but also available as single TD 9 version. Thus it is possible to implement each even and uneven number of drawing heads.

For the first time in short staple spinning, it also features a new can format: JUMBO CANS with 1,200 mm diameter reduce the number of can transports and significantly improve the efficiency of the downstream machines.

Getting fibers into shape - since 1888.



Additionally, the exhibitors will introduce their products and services in lectures, demonstrations and multi-media presentations at the 'Plaza'.

"The USA is one of the most important export markets for German textile companies. For us as representatives of the German textile sector, the joint presentation within the framework of 'High-Tex from Germany' is a great opportunity to cultivate existing contacts in the USA and to make new ones. With this exhibition, we are bringing our technologies to our customers in the USA," says Marc Lorch, Member of the Board of Zwissler Holding and Exhibitor President of the participating companies.

In addition to industry-leading companies from around the world showcasing their latest products and technological advancements, the joint schedule includes a wealth of special feature and interest areas that are not to be missed.

Premier Symposium Sessions

Techtextil North America and Texprocess Americas are each hosting eight symposium sessions with additional bonus opportunities, which will include two lunch n' learn style sessions as well as talks held on the show floor. These sessions are presented by industry experts throughout the technical textile, nonwovens and sewn product equipment industries. Session topics for the Techtextil North America include nonwovens, fibers, smart textiles as well as technical textiles for medicine, protection and mobility. For example the session 'Emerging and New Developments in Nonwovens ' will offer the latest developments in machinery and technologies in nonwovens. These will span advances in extrusion-based technologies such as meltblown, and spunbond as well as other web formation and bonding technologies as well as new developments in product innovations using nonwovens technologies. The session 'New Fiber Technologies' will find answers to the question what nanoparticles in ballistic applications, high speed centrifugal spinning, ultrasonic cavitation and active cotton fibers do have in common. And in the 'Smart Textiles' session attendees will learn about emerging smart textile systems that are capable of sensing physiological conditions of human body or environmental conditions such as sound, temperature, moisture, daylight, stress etc., energy generating (thermoelectric, or triboelectric, or electrochemical), energy storage (on textiles), signal transmission (wired or wirelessly), and more.

Session topics for the Texprocess Americas include all kind of innovations in sewing and sewn products manufacturing, cutting, fit, sizing & virtual try-on technologies, digitization, industry 4.0, wearable tech and also latest information about tariffs, duties and barriers. Probably one of the most interesting topic will be the session 'Automation, Smart Machines and robotics in sewn products manufacturing' where Nina McCormack from DAP America will give a speech how intelligent, innovative, collaborative automation and robotics are paving the way for fully autonomous industrial sewing systems in the "disruptive world" today. This session will explore the latest innovations and technologies that integrate work cell automation, vision technologies and robotics into automated sewing systems. Another big trend is going digital and in the session 'Fit, Sizing & Virtual Try-On Technologies' Alvanon President Ed Gribbin will explain why with the continuous growth of eand mobile commerce, getting the fit and sizing right, and being able to evaluate it instantly and virtually, has never been more important. They will explore the latest technologies, how they are being applied and what results can be expected for anyone trying to solve the mysteries of fit and sizing. Wearables are forecasted by experts to become a big market and the session 'Wearable Tech and Textiles: Communication through Clothing?' will give answers whether textiles could play the next big role in enabling wearables. Kilara Le, Project Consultant at LMI Consulting will look at some of the potential ways in which this type of technology could be used effectively and explore challenges in making this sci-fi dream a reality.

Tech Talks

The success of Tech Talks at Techtextil North America 2017 warrants its return in 2018. For three days, the Nonwoven's Institute will host complimentary daily mini sessions covering innovations in technical textiles and nonwovens. And for the first time, Texprocess Americas will also feature its own Tech Talks, powered by The Fashion Institute of Technology in collaboration with Voice of Insiders. All show attendees will have the opportunity to attend these daily mini sessions covering a variety of topics pertaining to sewn products and their development. Tech Talks both Texprocess Americas and Techtextil North America are first come first serve and will be held on the show floor.

Networking Reception

For the first time ever, Techtextil North America and Texprocess Americas are hosting a joint networking reception, open to all show attendees. With the purchase of a \$65 ticket (price will increase onsite), party-goers will enjoy food, drinks and live entertainment – all in a fun and relaxed environment to network with colleagues and exhibitors from both events.

The Graduate Student Poster Program

The poster program highlights research done by graduate students from the top textile engineering, manufacturing and design programs in the country. This year's participants come from North Carolina State University's College of Textiles, The University of Georgia, and The University of Oklahoma. The program provides a forum for students to present and discuss their latest research, meet with peers who have related interests, and introduce themselves to more senior members in the field. For potential employers, the program presents a unique glimpse into the industry's top academic programs and up-and-coming talent.

'The Greatest Showman' costumes brought to you by Gerber Technology

Texprocess Americas 2018 will feature replicas of the costumes from the new film 'The Greatest Showman' brought to you by Gerber Technology. Gerber combined forces with Global Garment Engineering and 20th Century Fox to replicate costumes worn by Hugh Jackman, Zac Efron, Michelle Williams, Rebecca Ferguson and Zendaya. By leveraging Gerber's integrated digital solutions, the replicas can now be done in a fraction of the time and at a much lower cost.

Micro-Factory collaboration project featuring the OmronAutonomous mobile robot

Attendees will have the chance to see how a modern micro-factory can address the need for mass customization in an efficient, cost effective, and socially-conscious manner, right on the show floor. The multi-exhibitor collaboration will show how to quickly and efficiently go from design to production, and concept to consumer through demonstrations in product design, digital printing, automated vision-aided cutting, material transport and robotic sewing. Data will be passed seamlessly from system-to-system, automating the workflow, minimizing the need for human interaction helping to improve quality, reduce costs, and improve time to market. Participating companies include Gerber Technology, Henderson Sewing Machine Co., Kornit Digital, Nextwave, and Zund America, Inc.

Exhibitors at Techtextil North America

Technical textiles for all fields

Today, technical textiles are to be found in virtually every field of human endeavour. In Atlanta, the manufacturers of high-performance textiles and fibres taking part will show the complete spectrum of applications, from the automobile industry, via architecture, to personal protective equipment.

With their **Gertex** and **Zoeppritex** divisions, **Zwisstex** will present the latest fabrics and technologies for laminating, backing and coating, primarily for the automobile sector. At **Kufner**, trade visitors from the outdoor, fashion and sports industries will find insoles and, at **Südwolle**, technical yarns. Also in the field of functional apparel are the flame-resistant textiles by **Pyrotex**, which can also be found in the automobile and aviation sectors, in architecture and building, as well as in contract textiles. Additionally, a start-up, **Lunative Laboratories**, will show LED hoodies. Technical textiles for the automobile and aviation sectors also come from **Curt Bauer**.

Nonwovens

New developments in the nonwoven field will be shown by several exhibitors including **Frenzelit**, **Polyvlies**, **Sandler**, **Smart Polymer** and **Tenowo**.

Sandler (German Pavilion / Booth 1940) will showcase new developments for transportation, filtration, construction, and interior acoustics.

High-performance absorber nonwovens of the sawasorb® series dampen engine and road noise, thus enabling passengers to hold conversations at a normal volume— even at high speeds. Even at low product thickness, these absorbers efficiently insulate sound and are therefore suitable for narrow installation spaces. Nonwovens for exterior applications are hydrophobic and oleophobic throughout their entire operating live, making them resistant to fluids used in the engine compartment. They also withstand high temperatures. Composites made from nonwovens and fibre-reinforced plastics combine the advantages of textile and plastics engineering: Sandwich structures for LWRT-parts (lightweight reinforced thermoplastics) foster lightweight designs and demonstrate how a high degree of stability can be achieved with extremely light materials. The trend towards electromobility will no doubt initiate many interesting conversations on sound and heat insulation in vehicles during the trade fair. Sandler will accompany this development with competence in nonwovens.

In filtration, the new ISO 16890 standard is shaping product development and material classification. A filter's performance is now measured using a more practical approach with regard to particle distribution in the air. Differences in the air quality in rural areas compared to urban regions come into effect and the subject of energy efficiency gains importance. The new Sandler enAIRsave® nonwovens contribute to lowering the energy consumption in the filtration unit owing to a special multi- layer structure. This product series offers ideal filter media for all efficiency ranges according to ISO 16890. And for filters of MERV-classes 1 to 16, the Sandler product range also comprises suitable materials.



The last trade fairs had a big increase in visitors. Will it be more than 10,000 this time? © Messe Frankfurt, Inc., USA

Nonwovens of the fibercomfort® product line enable product solutions for quiet rooms and technical insulation. Sheet material made from 100 % polyester dampen the noise level in rooms as part of wall and ceiling systems, partitions, furniture or acoustically efficient wall decoration, creating a quiet environment at the workplace as well as at home. Sandler fibercomfort® is available in different thicknesses and densities; soft and voluminous or compacted and self-supporting; with an open-pore surface or specially smoothed— the right nonwoven for your requirements. Through further processing, these textiles may be enhanced with print motifs; lamination; flocking, for instance to create a roughcast look; or a coating made of natural materials. In this way, the textile materials become individual design elements and create an original look for every room.

Visitors will have an opportunity to experience the acoustic efficiency of these materials for themselves at the Plaza area of the High-Tex from Germany forum. Here, a flexible partition and elegant seating cubes made from 100 % Sandler nonwovens will serve as examples of the many opportunities for nonwovens to be used in visible applications and will provide a place of rest and quiet amidst the hustle and bustle of the exhibition hall.

Also nonwoven machinery is represented by world market leaders.

Autefa Solutions (Booth 2432) combines experts of the former companies Fehrer, F.O.R, OCTIR, AUTEFA and Strahm. At the show Autefa Solutions focuses on customers' requirements and will inform visitors about the economic and technical advantages of AUTEFA Solutions as a full line supplier for carded-crosslapped nonwovens lines, needlepunch nonwoven lines, spunlace and thermobonding lines. AUTEFA Solutions nonwovens lines meet customers' requirements for quality web formation and web bonding, active weight regulation, and minimal maintenance. As nonwovens producers are facing more competition, they are looking for reliable and economic machines.



Nonwovens Card WebMaster FUTURA © 2018 Autefa

The product range includes fiber preparation machines, nonwovens cards, aerodynamic web forming machines (Airlay), crosslappers, needle looms, thermobonding ovens and dryers. The company delivers turnkey nonwoven lines including opening and blending, chute feed, carding, crosslapping, needlepunching, drafting, and winding as well as hydroentanglement machines, thermobonding ovens and dryers.

Very well-known star products of Autefa Solutions are the Stylus needle looms. Here, Autefa Solutions offers a wide product range including Stylus single- and double-board needle looms, tandem needle looms, velour-, structuring and patterning needle looms as well as needle looms for paper maker felts. Needle Looms for fabrics and needle looms for glass fibers insulation matts were requested by customers. The Stylus needle looms Variliptic and NL distinguish itself by vibration free running, needle densities up to 30000 needle per meter and highest production due to stroke frequencies up to 3000 rpm in continuous operation. The crosslapper Topliner combined with WebMax ensures excellent uniformity in the fabric and, thanks to a considerable saving of materials, a reduction in material costs.

One of Autefa Solutions' latest developments unveiled at ITMA is the nonwovens card WebMaster FUTURA. It distinguish itself by highest quality of carded webs, increased production, easy cleaning and easy access to all the parts of the machine as well as reduced time for maintenance and re-wiring. And of course the Autefa Solutions HiPerTherm Thermobonding oven with the proven double nozzle system is still the machine of choice when it comes to thermally bond materials from airlay- lines and card-crosslapping lines. The key strengths of the Autefa Solutions belt dryers are uniform airflow and the precisely adjustable temperature distribution, the ability to maintain loft or to create high densities.

DiloGroup (Booth No. 2423) comprising DiloTemafa, DiloSpinnbau and DiloMachines and represented in the USA by Dilo Inc. in Charlotte,NC is the major supplier of complete lines for staple fibre nonwoven fabrics with an emphasis on needlepunch technology. DiloGroup enjoyed above-average order influx in all important markets for its machines and installations and had record turnovers in 2015 and 2016. The strong demand for DILO production lines is partly due to the high attraction of needled nonwovens themselves with a yearly increase in consumption of about 6 - 7 % and also shows DiloGroup's strong position in the international nonwovens machinery business. As the leading group in the field of staple fibre nonwoven production lines DiloGroup will inform about complete lines presenting the latest developments in all components.

New equipment components are developed to improve web quality overall, optimize process economics by fibre saving and also increase line capacity and are relevant to all bonding techniques.



A trade fair visit could be important because industry 4.0 and digitization are changing the rules of the game. © Messe Frankfurt, Inc., USA

In recent times advances have been made in the areas of fibre opening/ blending for longer staple fibres, carding to give increased versatility within one machine, crosslapping at higher web infeed speeds and needling at the critical first loom to give better control of bulky webs. An example of such an innovation is the "Vector 200", a new crosslapper by DiloMachines which is unique with an infeed speed of more than 200 m/min.

Process development is also considered important. Two examples are the compact line and the HyperTex concept. In addition to wide needling lines for the economic production of large volumes for automotive and geotextile applications, DiloGroup offers a new compact line designed to make smaller quantities of high quality needlefelt as required for medical applications or when processing high value specialty fibres such as carbon for automotive/aeronautical and other uses.

HyperTex produces multilayer felts to increase fabric stiffness for applications such as roofing material, dust filter bags, geotextiles and composites.

Using the scrim making machine of Ontec Automation GmbH a reinforcing layer of yarns or filaments is fed inline between two layers of web or preneedled batt.

This structure which can also be limited to one fibrous layer is then bonded together at high speed using Hyperpunch needling technology. In the weaving machine sector we do a deeper look on the technological market leader for producing technical fabrics and applications.



DILO Compact Line © 2018 DILO

DORNIER (Booth 2247) will present comprehensive solutions for "green technologies" under the motto "The Green Machine". Those fabrics are of decisive importance for "green technologies" in many branches: Whether finest filters for purifying water or air, airbags and antiballistic structures to protect against death or injuries, composites made of glass or carbon fibers to reduce moved masses and the CO2 emission. Among the final products of the weaving machines are the most demanding fabrics such as airbags, carbon fabrics for composite structures or aramid fabrics for fireproof and bulletproof applications.

Furthermore, geotextiles for slope reinforcements, dam building or renaturation are in daily use in harmony with nature. The range of applications will widen even further with the current weaving machine portfolio – which includes many new developments for the rapier and air-jet weaving machines, and new products from DORNIER Composite Systems[®].



In both business segments – weaving machines and specialty machines – DORNIER has established itself as one of the market leaders worldwide with exports amount to about 90%. Just as the market for technical textiles grows and continuously generates new improved products, DORNIER also develops consequently innovative machine concepts so that they can be manufactured flexibly and with high productivity.

One example of a DORNIER weaving machines which stands for highest productivity, unique performance and process reliability, espe-

> cially in the production segments for technical textiles with the highest demands on the fabrics, is the rapier weaving machine P1.

DORNIER also offers production technology for complex 3D fabrics. The 3D weaving machine from DOR-NIER Composite Systems® is used to manufacture multilayer textiles with complex structure for composite reinforcements.

Rapier Weaving Machine P1, type PTS 8/S20 C © 2018 Lindauer DORNIER



Visitors will be able to watch numerous innovations and improvements. © Messe Frankfurt, Inc., USA

Notable features of the system include digital weave pattern programming, flexible shed geometry and rigid rapier motion for low filamentation. A horizontal take-off is also available for very thick fabrics.

Another interesting topic for chats and reviews will be the 40th anniversary of American DORNIER (AmDo). In 1978 DORNIER moved into the 900 square meter premises on Performance Road in Charlotte, North Carolina and started with 9 people. Today they can look back on four decades of first class service to the textile and plastics industry in North and Latin America and almost 8,500 weaving machines shipped to date.

With over 240 customers DORNIER is a reliable partner for the American textile industry and firmly positioned in profitable markets: DORNIER customers are often innovation drivers. And there is also a must visit for visitors interested in knitting solutions.

STOLL (Booth 2001) is a leading manufacturer of flat knitting and 3D knitting machines and offers a wide range of solutions for knitting technical textiles. At Techtextil Frankfurt last year STOLL unveiled their new cluster concept for TT sport, TT med, TT home, and TT mobility along with the new CMS 330 HP W flat knitting machine for TT sport, which is suitable for the manufacture of shoe uppers, orthopedic supports, and textile accessories with complex shapes and visitors will be able to learn more about this concept and the large variety of flat knitt applications produced on STOLL machines.

In January 2018 Stoll and Myant Inc., Canada's leading textile computing company, proudly announces a strategic and exclusive collaboration to populate functional computing textile manufacturing in Canada and the US, with 500 state-of-the-art knitting machines from Stoll.

STOLL says this collaboration will have a direct and powerful impact on the textile manufacturing industry worldwide as it raises the bar and sets a new gold standard for functional computing textiles. Myant and Stoll announced they share the vision of disrupting the textile industry with new advancements in Industry 4.0, material science and technical applications for high quality products made in North America.





CMS 330 HP W © 2018 Stoll

And they stated Stoll's machines combined with Myant's end-to-end innovations, from molecule to garment, from textile to wardrobe will truly revolutionize the world of textiles and create a new economy. An interesting vision to discuss at the booth.

Finishing of technical textiles is just as demanding as it is versatile. Here, the creme de la creme of the manufacturer presents their portfolio and their latest solutions. **Benninger** (Booth 2257) will provide visitors with their comprehensive process know-how in the fields of technical textiles, in particular in the areas of textile finishing, washing, bleaching, dying (Küsters DyePad) and mercerizing. Benninger develops and manufactures textile finishing and cord production ranges as well as providing complete system solutions. The vast knowledge of Benninger in the field of controls and automation is based on many years of experience with machines and ranges, also in other industries. In order to always implement the latest scientific findings Benninger closely cooperates with the world's leading market research institutes for textile chemistry and physics.

For sure a special emphasis will be given to the newly redesigned TRI-KOFLEX drum washing compartment. With the front and back washing effect, based on the patented double drum technology, the newly redesigned TRIKOFLEX drum washing compartment guarantees a high mechanical washing efficiency.

It not only enables low, controlled fabric tension, but also crease-free fabric transport, even with sensitive fabrics. The TRIKOFLEX drum washing compartment also offers another advantage by controlled relaxation of synthetic and elastane fibres. All these advantages also predestine the TRIKOFLEX drum washing compartment for use with technical textiles.

To meet all requirements in this field, the compartment is available with a working width of 5,400 mm.



TRIKOFLEX © 2018 Benninger

The range for technical textiles is supplemented by the HYDROVAC water removal system and the original Küsters finishing padder. This gives the customers new options in the technical textile field – not only with regard to the technological processes, but also with minimum use of resources.

With BEN-COLOR Benninger offers the complete program for continuous CPB dyeing which combine high reproducibility and even dyeing results with low energy and water consumption and high fastness properties. Not to forget no salt is needed. The KüSTERS DyePad equipped with the legendary S-roller padder offers optimum padder configuration for all applications and stands for dyeing without compromises. Last but not least visitors interested in mercerizing should ask for the Benninger Mercerizing Solutions "BEN-DIMENSA" for woven fabric and knitwear. offers highest quality mercerizing and caustification for maximum luster, dimensional stability and dye yield. **BRÜCKNER** (Booth 1948) plans, builds and installs machines and ranges for the dry finishing of textiles, technical textiles, nonwovens and floor coverings. With more than 5500 innovative systems and ranges supplied all over the globe, Brückner is one of is a leading international manufacturers. In the field of technical textiles, Brückner offers machines and complete lines for coating and drying. Brückner says their individual line concepts stand for maximum production output, low energy consumption and highest precision regarding temperature distribution, air circulation and coating application. A great number of special machines for very specific purposes show the competence of the creative BRÜCKNER team.

Textile finishing people know this very well but there will be a lot of interesting news to discuss with the BRÜCKNER people, because in September 2016 the construction works for the new production site on a lot comprising 80.000 m² began. In total BRÜCKNER is investing 40 million Euro in estate, buildings and machinery. In an exclusive interview company CEO Mrs. Regina Brückner told us they will not only be able to react more flexible on the customers' wishes but they can offer also shorter delivery periods as well as they can produce bigger and heavier components than before. This has clear benefits particularly for special purpose machinery or extremely high lines. Machines with working widths of more than seven meters can be installed without problems, heavy components can be transported more easily.

The generous space offers new chances for growth and development. New constructions and line parts can be assembled and intensively tested anytime.

However, maybe for people puzzling on fabric innovations -and the Techtextil is the place to get first-hand feedback- the BRÜCKNER Technology Center in Leonberg where customers can develop their own innovations on different machines, is still of greater importance.

To give a few examples of the latest BRÜCKNER developments we would like to highlight the SUPRA-FLOW BX double belt oven for nonwovens and the innovative ETRO bow-shaped dryer which is particularly suitable for the coating with PVC or adhesives. Visitors interested in coating should ask for the very different application systems for the coating of technical textiles, especially for the ECO-COAT minimum application unit.



BRÜCKNER ECO-COAT minimum application coating unit for technical textiles © 2018 Brückner

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Also padders, drying, heat-setting and curing ovens with maximum production capacity and lowest possible energy consumptions and the highest precision in the temperature distribution and air circulation are part of BRÜCKNER's product range. Various cutting and winding machines to give a shape to Technical Textiles of any kind round the product portfolio.

Examples for the final applications processed the BRÜCKNER finishing lines are woven glass fabric for circuit boards, carbon textile for textile-reinforced concrete, linings for walls and roofs in the field of automotive and aerospace, airbags, high-tech filters for the medical industry, hygiene articles, geo nonwovens for bank reinforcement.

Monforts (Booth 2346) will demonstrate diversity and highlight its advanced finishing and coating technologies for the production of technical textiles. "Techtextil North America is a very important show for us, because technical textiles are a key pillar of our production programme and North America is one of our major markets," says Monforts Head of Technical Textiles, Jürgen Hanel. "Technical textiles are extremely diverse in their end-use applications and our customers range from manufacturers of substrates for digitally-printed soft signage to those making high-performance composites. We have also provided dedicated lines for producers of airbags, flame retardant barrier fabrics, filter media, heavy duty membranes and even base liners for sensor-packed dye sensitive solar cells." The European-built Montex range of stenters has earned its leading position on the market for fabric drying due to the robustness, reliability and economy of these machines. In specialized, integrated lines for nonwovens finishing, for example, they are equipped with a padder and slitter, a stretcher with a force of up to 10,000 N in longitudinal direction, and reinforced tracks with maximum transverse forces of 10,000 N.

These nonwoven lines can accommodate materials in the extremely wide range of 100gsm up to 5,500 gsm for materials in thicknesses of between 0.5-22mm.

The Montex range for the fixing of three-dimensional warp knitted spacer fabrics for products such as car seats and mattresses meanwhile incorporates a cooling chamber for efficient cooling of the bulky materials.

For the coating of technical textiles, Monforts offers two highly versatile systems – the texCoat module, which can be integrated into new lines or retrofitted into existing ones, and the Montex Allround designed to be integrated into a complete Monforts finishing range. "Nowadays we are the only manufacturer which can offer completely integrated coating lines from a single source, and the coating machine is tailored to the subsequent Monforts drying technology – with all the benefits resulting from fully integrated plc control."



For nonwovens production, Montex stenters are equipped with special reinforced tracks. \circledast 2018 Monforts

Another highlight will be the new Qualitex 800 control system. The highly advanced system is available for the automatic and continuous operation of the company's Montex stenters, Thermex and E-Control continuous dyeing ranges, Monfortex and Toptex shrinking systems and Eco Applicator, texCoat and Allround coating units.

And of course digital printing is an important topic at the fair.



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ZIMMER AUSTRIA (Booth 3117) is a world-leading manufacturer for Screen & Digital Printing Machinery, Coating, Steaming, Drying, Digital Functionalization, as well as Sample, Lab, and Washing machines. The company will highlight latest innovations.

With the new pigment printing solution, ZIMMER AUSTRIA completes the portfolio of its available ink classes. With pigment inks, very good light fastness, even in the home textiles market, e.g. for curtains, or decorative articles are achieved.



Zimmer Austria COLARIS Textile Printer © J. Zimmer Maschinenbau GmbH

At the same time, outdoor applications are possible, from sun protection to tarpaulins. With the pigment inks (4 or 6 colours) on the COLA-RIS, reliable printing results with brilliant colors, as well as excellent light, friction and wash resistance are delivered. A further new development is the COLARIS.12-2200 Small Production Pigment Inkjet Digital Printer for textiles and terry towels.

The COLARIS.12-2200 is also suitable for acid, disperse, reactive and VAT inks. ZIMMER AUSTRIA offers a wide range of pre- and post-processing systems and equipment like steamer, washer, hot air dryer, infrared fixation.

Exhibitors at Texproces Americas

Following the development in the last two years as well as the enormous potential and the big hype at Texprocess Frankfurt it is predictable digitization will become the dominant topic of Texprocess Americas.

Human Solutions (Booth) will present solutions to accelerate work processes in the apparel industry. The focus here is on the company's know-how in sizing & fitting and in the use of digital humans in product development. One exhibition highlight will be an innovative Microfactory project together with OnPoint Manufacturing. At Human Solutions' booth, trade fair visitors can put together an individual dress, after which the 3D simulation software Vidya is used to view the garment from all sides. Anyone who wants can take part in a prize draw with their design. Five clothes designed at the fair are produced daily by OnPoint Manufacturing and delivered comfortably to the winner's home. "With this we show the seamless connection from the booth right to production. The customer himself becomes the designer for whom an individual garment is made," says André Luebke, General Manager of Human Solutions of North America. "The possibility of connecting Vidya with a production facility creates completely new business models."

This impressively demonstrates how far the technical possibilities for the fashion industry are now – and that 3D is the key to digital work that opens the door to many other options. With its Digital Fashionboard, Human Solutions has created a solution to use 3D throughout the entire fashion creation and sales process. At the Texprocess Americas, visitors will see how 3D in combination with PLM can open up new paths in the planning of collections and stores – but the Digital Fashionboard can also be used in the store as a virtual extension of the counter and as a tool for virtual fitting.

"We combine the best features of our 3D simulation software Vidya with our unique expertise in sizing & fitting," says André Luebke. "Customers can view different variations of a garment on a screen in the store and create a virtual avatar of their own body to try on the clothing for them."

The better a company knows its target group, the more successful it can be in the market. Human Solutions has the world's largest database of human body scans – and the company also uses it to develop solutions for the apparel industry, enabling customers to get involved in digital product development as early as possible.



Human Solutions Digital Fashionboard © 2018 Human Solutions

New data is constantly being added to the database. Human Solutions will also present its largest serial measurement project to date at the Texprocess Americas – Size NorthAmerica, during which around 18,000 people in the USA and Canada will be measured with 3D body scanners.

The aim of the project is to develop new data for precise size recommendations for the American market – and Human Solutions will soon be presenting fashion manikins based on this measurement data at the Texprocess Americas.

Under the motto "Embrace Your Digital Reality!" **Gerber Technology** (Booth 1033) showcases on-demand workflow solution at Texprocess and transforms speed-to-market manufacturing. In collaboration with Kornit Digital and Henderson Sewing Machine Co., Gerber will highlight how digitalization can make purchase-activated manufacturing and mass customization a reality.

Attendees can experience a full end-to-end, on-demand "micro-factory" exhibit that demonstrates how—in today's "see now, buy now" on demand world—manufacturers can digitize their process and increase their overall efficiency, while also reducing their inventory without impacting customer satisfaction or quality. By using Gerber Technology's AccuMark® and AccuMark 3D for Product Design the demonstration will show how design is optimized by leveraging custom graphics and 3D simulation, then converting patterns into a marker file that will be prepared and sent to a digital printer. In a single step, Kornit Digital's Allegro Printer will digitally print designs directly to textile with its patented Fixation on the Fly (FOF) inline pre-treatment process. This waterless solution leaves a low eco-footprint by eliminating steps such as pre-treatment, washing, and steaming.

Kornit will be showing new Neon inks that enable brighter colors and extended gamut, opening new market segments to increase system utilization.

For the next step Gerber's Z1 single-ply cutter with ContourVision performs automated vision-aided cutting. An automated scan-to-cut system processes rolls of custom printed textiles by automatically generating cut files to drive the process.

The Z1 is enabled with GERBERconnect[™] which allows data to be transferred to the Cloud and service professionals to diagnose your cutter in real time ensuring maximum production efficiency. An autonomous mobile robot will collect bundled cut parts and transport them from the design-print-cut area to a robotic sewing station across the aisle at the Henderson Sewing Designed Gantry Robotic Sewing Station, booth #717.

Gerber's knowledge and the passion of our people create an unparalleled level of support for our customers. "We are enabling the industry to be proactive and move quickly in adopting their digital transformation," stated Mohit Uberoi, CEO of Gerber Technology. "Our team is ready to help facilitate the process — empowering our customers to turn their data into speed."

Gerber's Digital Solutions include the newest releases of Yunique-PLM® product lifecycle management software, as well as Accuthe industry-leading Mark®. pattern design, grading, marker making and production planning software, AccuMark 3D and AccuPlan[™]. The Digital Solutions architecture uses common file structures. Data can easily be passed to the cut room where smart machines, like the GERBERspreader[™] XLs Series and the Gerber Paragon® line of multi-ply GER-BERcutters, can process the order with a simple barcode scan.



Gerber AccuMark V11 © 2018 Gerber Technology

A closed-loop, end-to-end Digital Solution like Gerber's, that integrates software and smart machines, allows companies to automate their entire process and streamline data and workflow necessary to provide insight, maximize throughput, minimize errors and reduce labor costs to be competitive in mass production environments.

> If you just look back at the exhibitors with their innovations, you have to ask yourself if the three days will be enough for visual inspection, discussions and business. That means setting priorities.

> What is already quite clear, however, is that the trade fair duo made up of Techtextil NA and Textprocess Americas will once again be a great event for everyone involved. And those who can not make the visit, can look ahead, because at least the Techtextil NA comes back in a year.

Techtextil North America 2019 sets its sights on Raleigh

The sixteenth edition of Techtextil North America announces the 2019 premier trade show for technical textiles and nonwovens will be held in Raleigh, North Carolina. The relocation to Raleigh brings the show back to the heart of the North American Textile Industry, with drive-in access for many leading global companies and within minutes of one of the best airports in the US, Raleigh-Durham International Airport.

North Carolina's rich history in textile production dates back to the 1800s and today serves as the location of several of the most important global textile companies, industry associations and educational resources. North Carolina leads the U.S. in the textile mill industry with over 700 textile manufacturing establishments and over 42,000 industry workers. In addition, North Carolina State University's College of Textiles, located in downtown Raleigh, serves as a hub for textile research and development and as a primary supplier to the industry talent pipeline nationwide.

"We are thrilled to announce Raleigh as the Destination City for Techtextil North America 2019," said Dennis Smith, President, Messe Frankfurt North America. "Not only is North Carolina an international hub for industry and innovation in textiles, but the city of Raleigh has become one of the fastest growing, more forward-thinking in the nation. Techtextil North America 2019 aims to provide a regional platform for the global textile industry to conduct business, and the concentration of companies, associations, and educational institutions in the area makes Raleigh the perfect location for our exhibitors and visitors to come together to do so."



When the ITM 2018 closed its doors on 17 April after four very special days of the fair, all participants could not but be satisfied. Being the biggest textile machinery exhibition in Turkey, the Middle East and the Near East, ITM 2018 for sure was this year's textile machinery trade fair highlight for participants and visitors from all over the world with a record-breaking participation.

ITM 2018, has beaten a record with 14.248 international and a total of 58.942 visitors from 94 countries, among the ITM exhibitions. ITM 2018 has significantly enlarged in both country diversity and visitor numbers compared to the previous ITM Exhibitions. It has raised the success level according to the very positive feedback that has been received from the companies and visitors. Over 1150 textile technology manufacturers and company representatives from 64 countries participated at the ITM 2018 Exhibition, which took place in 12 different halls. Companies serving in the sub-branches of the industry from cotton to yarns, weaving, knitting, digital printing, dyeing and finishing have presented their latest technological products this year on an area covering 120.000 sqm. These figures demonstrate the growing importance of ITM, being organized by Teknik Fairs Inc. and TÜYAP, Tüm Fuarcılık Yapım Inc. in partnership and with cooperation of TEMSAD (Textile Machinery and Accessories Industrialists' Association).



Tüyap fairground © 2018 TexData International



Flags and banners for promotion © 2018 TexData International



A big tend for easy entrance © 2018 TexData International



A nice place for souvenir photos © 2018 TexData International

Opening ceremony © 2018 Rickey Steele, Oerlikon Textile

Press conference with Mr Güney © 2018 TexData International

Today ITM Exhibition is more than ever one of the top hot spots of the sector professionals where both national and international companies made sales of millions of Euros and by being a platform where hundreds of various business connections have been established.

With all the enthusiasm for this success story one easily could forget to list the two other exhibitions which were being held simultaneously. Being the first and only exhibition in its field Hightex 2018 was held for the seventh time this year. Here, textile products such as nonwoven and technical textile, which are rapidly complying the technological developments in the industry are being introduced.

Continuing to be one of the most important platforms guiding the yarn industry, at the Yarn Exhibition high-performance and quality products of the top producers in the industry were exhibited. Necip Güney, Chairman of Teknik Fuarcılık said at a press conference on the second day of the event:" The high number of participants has not been a surprise for us. We are happy to get results on the efforts we have put in this organization for 2 years." Beside these efforts Güney sees the geographical advantage of the ITM as the main factor for its growth and success. He said: "Istanbul acts as a bridge connecting the east and the west. Companies in the Middle East, North Africa, the Turkic Republics, the Balkans and Asia, which are developing rapidly both in European countries and in the field of textiles, are able visit Istanbul after a short 3-hour flight. Also due to the fact that textile manufacturers from Iran, Algeria, Egypt, Tunisia, Morocco, Pakistan and Bangladesh are experiencing visa issues on their trips to Europe due to the aggravated visa conditions of the Schengen policy, while they do not experience any such problems when they come to Turkey, is causing an increase in the number of visitors at our exhibition."





New Saurer Schlafhorst Autoconer X6 © 2018 TexData International

New SMIT loom GS 980 © 2018 TexData International

As reasons for the high number of international visitors, Güney noted their promotion of the ITM by participating in the exhibitions in Iran, Uzbekistan, Pakistan, Moscow, Tunisia and Algeria as well as they have witnessed very serious investments especially in countries like Pakistan and Bangladesh.

Of course, for urgent investments, ITM Exhibition in Istanbul provided a great opportunity for companies who want to renew their technologies and make investments. Maybe there is one more reason, we have mentioned in our preview. China's export business in textiles and clothing has started to decrease and this could be a signal for potential in export growth for textile and garment companies of other countries.

Enough on the visitors. Let us now turn to the exhibitors and their stands. As is to be expected at such a big event, all exhibitors showed themselves at their best. Large stands, high-quality layouts, creative decorations and original ideas turned the exhibition into a truly exciting experience.





Itema CEO Carlo Rogora introducing new R9500 2 denim © 2018 TexData International

Mouvent introduction of new TX801 © 2018 TexData International

Really big booths were presented by Saurer, Rieter, itema, Picanol, Stäubli, Groz-Beckert, Karl Mayer, SANTEXRIMAR and Mimaki.

Now let us have a look at a very special change. What is already known in the textile world is ITM has become a trade fair where textile technology leaders exhibit their newest products as well as being a platform helping achieve major business cooperation in the industry. However, what we would consider a trend break or even would call the breaking of an axiom is the fact, many world market leaders introduced brandnew technology for the first time to the public at the ITM fair. This sometimes happened before, but basically it was always reserved for ITMA or, at most, ITMA Asia.

We would like to give you some examples for your better understanding why we are so enthusiastic and call it a big change. SMIT, the weaving division of SANTEXRIMAR presented a new weaving machine as well as Saurer and itema showed new machines. In addition, itema presented the ground-breaking new technology iSA-VER that eliminates the waste selvedge on the left side of the fabrics thus leading to big savings. The German automation and inspection specialist Erhardt+Leimer presented a new camera application for recognition of the front and back side of a textile web, EFI Reggiani introduced a new digital printing machine and newcomer mouvent has chosen the ITM as one of the company's first ever global trade shows to demonstrate the new TX801 – an 8-color multi-pass digital textile printer.

Necip Güney answered to the question whether this is the next big step the ITM Exhibition has taken: "You may name it a milestone. However, for us it is just the best feedback showing how much the textile machinery manufacturers estimate the ITM Exhibition. The ITM gives them value with the quality and quantity of the visitors and excellent business opportunities. This makes us happy."

The first feedback from some major exhibitors to the ITM 2018 proves that Güney is right in his analysis. For example the review of Karl Mayer confirms him.

The world market leader in the warp knitting and weaving preparation sectors presented itself in Istanbul on a newly designed booth and with contributions that met the market demand precisely and completely.

"Especially the terry topic attracted the customers' attention", said Oliver Mathews, the Sales Director of KARL MAYER's Business Unit Warp Knitting.



Karl Mayer booth © 2018 TexData International

Stäubli booth © 2018 TexData International

Stoll booth © 2018 TexData International

And Gabriela Schellner, Head of Textile Product Development, was happy about the success of her fabric experience concept. The stylish articles for the fashion sector were on everyone's lips, and hands. And she was, like the entire exhibition team, constantly in demand. Nearly 250 qualified discussions were conducted at the KARL MAYER exhibition stand, with customers from all over the world, but mainly from the host country and from Iran. The conversations showed a very good mood within the line of business: "The willingness to invest among our existing customers is high", said Bastian Fritsch, Senior Sales Manager of KARL MAYER's Business Unit Warp Knitting. He met all his customers, and usually had intensive discussions about specific projects, with legitimate hopes for contract conclusions.

Positive feedback has also been announced by Stäubli. "We were glad to see this overwhelming interest in our solutions for the weaving and knitting industry. Our reliably and precisely running high-speed shedding solutions such as cam motions, dobbies, and Jacquard machines, convinced many weaving industrials.

The renowned SX and LX electronic Jacquard machines could be seen on our booth, but were presented in addition on the two complete Jacquard installations visible on this years' ITM fairground.

This underlines the positive regard from the whole weaving industry towards us", says Mr Legler, Sales and Marketing Manager. At the booth Stäubli showed for the first time in Turkey, the automatic drawing in machine SAFIR S40, featuring a mobile drawing in machine and stationary drawing in station. This installation offers multiple layout possibilities and with its little space requirements fits into every mill.



Crowded halls - many visitors © 2018 TexData International

Space for 2020 arrangement © 2018 TexData International

2020 is already scheduled © 2018 TexData International

In the knitting sector, and more precisely in sock knitting, according to Stäubli the countries' industry underlined its worldwide leading position. And Stäubli supports this successful knitting industry with automation solutions, such as the D4S automatic toe sewing device, which increases the efficiency in the mill.

And last but not least, STOLL from Germany, proclaimed an overwhelming success on ITM 2018. STOLL has been participating in ITM for many years and says it is the best platform in Turkey to show new technologies to existing and potential new customers. The booth was very well received by the visitors and everybody marveled the joint booth from STOLL, Mayer Mümessillik and Mayer & Cie. During the 4 days of the exhibition the booth was always very well visited and customers from Turkey, Russia, Kyrgyzstan, Uzbekistan, Iran, Saudi Arabia and Africa found their way to the flat knitting machine manufacturer.

STOLL presented a large variety of their flat knitting technologies such as the well-known ADF machines with all kind of plating possibilities combined with intarsia and weave-in technology, as well as other flat knitting machines offering many different fields of application.

"Each day we had lots of very promising discussions with existing and new customers. Some of these discussions have led to significant business deals. 2018 looks to become one of the most successful years for STOLL in this market", a STOLL speaker says. "Finally STOLL is very satisfied and happy with their participation in ITM 2018 and look already forward to the next one."

Very positive feedback also came from Groz-Beckert. They were delighted to welcome more than 2,000 visitors at their booth during the four exhibition days. With a share of 89 percent, most of the visitors to the Groz-Beckert booth were from Turkey. The second largest group was from Uzbekistan and the Islamic Republic of Iran placed third. For Groz-Beckert, the ITM 2018 in Istanbul resulted in many interesting discussions and new incentives, and was a resounding success.

Looking ahead to the next ITM fair is something he shares with a lot of the exhibitors and of course also with the organizers. "We think that we have brought the ITM, which is held every two years, to a good level with our intensive efforts this year. We will continue to grow further in the forthcoming years. Looking forward to meeting all participants again at ITM 2020", Necip Güney also takes a look into the future. The next ITM 2020 is already scheduled. It will take place from 3rd to 6th June, 2020 as usual at the Tüyap exhibition ground in Istanbul.

ITM 2018 impressions



FADIS presented latest developments in winding and had a lot of visitors on the booth. Ms Elena Carabelli was happy about all the good discussions and the fair business.



Marzoli decided to present an automatic combing machine from its wide range of machines for spinning preparation and spinning.



Oerlikon Manmade Fibers exhibited together with its agent. Vice President Marketing André Wissenberg reported Oerlikon is satisfied with the fair and also business in Turkey.



Rieter is very strong in the Turkish market and the new Head of Marketing Ms Selma Wobben told us they are very satisfied with business in Turkey as well as the fair.



Bräcker, Graf, Novibra and Süssen presented all the advantages the original Rieter components offer to textile companies. They also were satisfied with interest and business.



As usual Saurer presented latest innovations and a wide range of machines from its business units.



In the forefront of interest of course was the brand-new Saurer Schlafhorst Autoconer X6 which was the main attraction in spinning business and one of the highlights of the fair.



Here, the machine is the star. SAVIO presented its new market leading product in winding: the Eco Pulsar S. The sales people were always busy.



SSM presented many machines and had a lot of visitors. Marketing Manager Thomas Elsner was very comfortable with the fair.



Uster is a synonym for yarn quality and a lot of yarn producers took the opportunity to talk about the "Total Testing Center" and the new Uster Tester 6. Marketing Manager Joachim Mayer was comfortable with the quality of discussions.



German market leader in spinning preparation machines Trützscher showed an excerpt of the numerous innovations they presented at last ITMA. For particular the new Jumbo cans were examined by many visitors.



Loepfe informed about its textile quality control systems for spinning and weaving.


Large crowds at the DORNIER booth. As always there were many visitors who were interested in the high-quality weaving machines of the manufacturer. Wolfgang Schöffl, Head of Business Unit Weaving Machines, was very satisfied with the exhibition business.



Big booth. Many machines. As usual Picanol underlined its leadership and power in the weaving business. Marketing Manager Erwin Devloo reported a high interest of the visitors in all types of weaving machines.



Itema presented several weaving machines including the new R9500 2 denim. And they unveiled the ground-breaking innovation iSaver.



The big Stäubli booth. In the front the Safir S40 automatic drawing machine which was presented for the first time in Turkey. Head of Marketing Fritz Legler told us Turkish customers strongly trust in Stäubli's leading quality and reliability.



VANDEWIELE, well-known manufacturer of first choice weaving machines nor only for carpet weaving, didn't present machines but offered ambience for talking about solutions and business.



The Mayer & Cie. booth was always crowded. CEO Benjamin Mayer told us the company is very comfortable with visitors and business.



The big Groz-Beckert booth showcased products and services for knitting, weaving, nonwovens and carding and was always full of people. During the four exhibition days they welcomed more than 2,000 visitors.



STOLL shared a booth with Mayer & Cie. and also shared the comfort of an excellent fair business.



Karl Mayer presented several machines, applications and a model of the PRODYE on a big booth. Head of Corporate Communications Christine Wolters was very satisfied with the number of visitors and the positive feedback from customers.



Benninger presented the legendary Küsters Dyepadon ist agent's booth.



Bianco Sales Director Andrea Pelissero was delighted about the fair. The machine in his back has been sold on the fair.



Torben Bräuner from iNTERSPARE Textilmaschinen informed Turkish customers about new machines, modifications and spare parts from the ARTOS; Krantz and Babcock machine ranges.



Mahlo information booth. The company is a world leader and its ORTHOPAC system offers numerous advantages.



The stylish Monforts booth featured the latest Montex stenters and offered enough room and atmosphere for excellent business discussions.



PRO-SMH and PRO-TEKNIK showed numerous machines from their large portfolio. The manufacturer from Turkey wants to become more global.



SantexRimar Group exhibited together with Turkish HAS Group and showed its wide range of leading machines on one of the biggest booths' of ITM. Santex Rimar Group CEO, Stefano Gallucci reported high interest for all machines, especially for the new SMIT GS 980.



German Thies presented a machine on its agent's booth.



A big booth for KLÜBER Turkey.



Mimaki is very strong in Turkey and has an own headquarter in the country. General Manager Arjen Evertse was comfortable with the fair and wants to expand the business in the growing market.



Mouvent Marketing Manager Jan-Fredrerik Lange was comfortable with the fair and the press conference. In his opinion newcomer Mouvent has high potential for growth in the textile market because they offer excellent technology.



Zimmer Austria presented its Colaris digital printer for textiles and attracted a lot of visitors with its technological advantages.



DILO Group exhibited at the HIGHTEX fair close to its customers from Turkey. Dominik Foshag told us he had good discussions and welcomed a lot of visitors.



The Chinese YINGYANG is going international and presented themselves at the Hightex fair.



The TexData booth with its plain design and futuristic messages found the visitors interest.





KARL MAYER

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WE CARE ABOUT YOUR FUTURE

TERRY.ECO

Warp Knitted terry fabrics – your road to success

TM 4-TS EL - Staple fiber processing terry warp knitting machine	
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Terry fabric produced on Karl Mayer's warp knitting machines offers big advantages

© 2018 TexData International

S ince many years it is tradition for warp knitting machine manufacturer and world market leader Karl Mayer to present a selection of textile applications in addition to latest machinery innovations. At this year's ITM 2018 Exhibition Karl Mayer decided to demonstrate the advantages of warp knitted terry towel. The idea behind this decision is simple but smart: On the one hand Turkey is a big and growing market for producing terry fabric and on the other hand Turkey is one of KARL MAYER's most important markets.

However, why should terry producers invest in warp knitting technology? Does the country offer potential for a technology change from woven terry fabrics to its warp knitted counterparts? For this question Karl Mayer wanted to give and find answers.

The visitors to the stand should be able to convince themselves of the quality of the terry fabrics. Available for the optical and haptic test were a set of towels and bathrobes. As a result, the test convinced many visitors including us. Although high-quality woven terry products may be softer and thus make the luxury and premium segment consumer feel more comfortable, the considerably cheaper produced knitted terry towel can certainly keep up with the haptic starting from the middle segment. Moreover, it scores big points here in terms of both production costs and durability since the firm anchoring of the terry loops into the knitted construction prevents the goods from being torn up. This means warp-knitted towels, and especially bathrobes, have a longer service life than woven textiles. If you think this characteristic isn't of greatest importance for consumer households, you shouldn't underestimated it, as it is a major feature in the entire field of professional use, for example in hotels and hospitals.

Let's have a look at the production process of the presented terry products. Karl Mayer's machine for producing terry fabrics is the highspeed terry warp knitting machine TM 4-TS EL. It is a special machine for manufacturing terry fabrics from staple fibres/cotton with EL facility for producing a wider range of patterns. With a machine speed of 800 rpm (KS4 FBZ: max. 600 rpm) and a large working width (up to 186") the TM 4-TS EL stands for high productivity. In this configuration the TM 4-TS EL has a daily production rate of about 1,800 kg of terry fabrics at a weight of 400 g/m2, 250% more than on an air-jet loom. In addition, the large warp beam support ($3 \times$ 40", 1×50 ") ensures long running times. In addition, the TM 4-TS EL also stands for flexibility. The electronic patterning device allows more patterning possibilities than the KS4 FBZ and offers fast and easy pattern change. Towel length as well as towel width (fabric width) are easy to change. An optional integrated blowing device reduces cleaning cycles and an optional yarn breakage detection by lamella system stops the machine in case of yarn breakage.

And there are also a couple of ecological advantages. First to mention is the energy consumption. The TM 4-TS EL consumes roughly 87% less energy per kilogram of produced fabric than air-jet looms, which require a large amount of energy to produce the compressed air. Second, the production of warp-knitted terry fabrics requires no sizing process. This saves on textile chemicals, effluent and energy to the value of roughly 0.20 US dollars/kg. This corresponds to a share of roughly 30% of the production costs (without the yarn) when producing the raw fabric. And third, please don't forget the longer service life. The ecological advantages of this include less waste, longer replacement cycles and a lower consumption of resources. In the age of rising importance of sustainability these three factors are a major plus for warp knitting against weaving. With all the benefits we just have learned about warp knitted terry towel, Karl Mayer's decision to present it at ITM 2018 is much easier to understand. Therefore, it is not surprising the presentation was very successful. In an ITM 2018 review by Karl Mayer the Sales Director Business Unit Warp Knitting, Oliver Mathews, stated that especially the terry topic attracted the customers' attention. Try it, and you'll know it. Sometimes doing good business can be easy.

Website: terry.eco Twitter: #terryfabric #warpknittingmachine



Itema introduced groundbreaking meno technology

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© 2018 TexData International

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Looking at the development of textile machine manufacturers in the last five years it must be said the Italian itema is one of the companies which have made a major jump. Since Carlo Rogora became itema CEO the weaving machine manufacturer is announcing new records in sales and earnings year for year. At ITM 2018 Mr Rogora again announced records in sales for 2017 with a plus of 15 percent. For particular in Turkey the company made a big jump and grew in sales by 50 percent.

One reason for this growth for sure is innovation. The company presented a remarkable number of new machines in the last years like the new R9500terry or the R9500denim. If you keep this in mind it is not the biggest surprise, itema took the opportunity of the ITM Exhibition to unveil a new machine once again: the next generation of their special loom for weaving denim fabrics named R9500 2 denim. The R9500 2 denim comes with several new features and innovations, but we want to confine our short review on the most impressive new feature which is called iSaver.

Since ever rapier weaving technology implicates warp and weft waste formation at both fabric sides. With the developing of iSaver itema demonstrates they have changed the rules of the game. iSaver is a new device developed inhouse by itemaLab, the itema Advanced Innovation Department, which is able to completely eliminate the left-hand weft waste. If you now think this waste is only a small stripe and not really important please think about the total fabric a weaving machines produces in one year. Itema has compared the amount of the waste a traditional loom produces in a year with a loom using iSaver. The difference is up to 1700 kg (Co Ne 6/1) depending on yarn count. "We are talking about an average cost saving of 2.000 Euro a year for each machine", said Sales and Marketing Director Christian Straubhaar at the press conference. And he added: "This is only the money and if you think in terms of sustainability there is much more. There are big savings in energy what means lower carbon impacts.

And with iSaver weavers also need less yarn what means less cotton and therefore less water consumption."

How does the new device function? Of course, itema didn't give any details to the public.

What they said is iSaver is based on the latest and most advanced mechatronic principles and inserts the weft yarns in the fabric without the need of additional yarns. Working up to four weft colours/yarns, the iSaver features four small clamps that hold the yarn during the weft insertion cycle and that move according to the weft that has to be inserted in the fabric.

Furthermore, itema proclaimed the setup of iSaver is possible directly from the machine console and the device does not hinder in any way the operating speed of the loom. Starting with the R9500 2 denim itema is working to gradually make the iSaver available to other machines as well. Whether iSaver can also be retrofitted, the itema people will certainly be able to answer.

Website: www.itemagroup.com Twitter: #weavingmachine #isaver



R9500 2 denim © 2018 Itema



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...AVAILABLE IN THE APP STORE.





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RVD II Plus



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Textile machinery manufacturers have been extremely creative in developing solutions to save energy and have been able to make some big contributions to improving sustainability of their machines. So, did Picanol. The company invest a lot of time and effort in optimizing the air consumption of its looms so that customers can use the available energy as efficiently as possible. Two of the many developments for this are the Automatic Relay Valve Drive or AR-VDplus and the AirMaster. At ITM 2018 Exhibition the weaving machine manufacturer and market leader highlighted both systems and Marketing Manager Erwin Devloo gave us a deeper insight in the system.

The first system, ARVDplus, automatically adapts the closing time of the relay nozzle valves according to the behavior and air-friendliness of the filling yarn. For maximum versatility, customers can select one of the three levels of automatic adjustment – low, medium or high – to suit the type of filling yarn, each indicating how much the relay nozzle blowing times can be adjusted by the machine. When activated from the machine's terminal, ARVDplus continuously monitors the main insertion parameters measured by the machine, such as the winding timings and filling arrival time. These data are processed and evaluated and the valve blowing timings of the relay nozzle valves are adapted automatically. The system reduces blowing times until it detects a possible unstable situation and then reverts to the optimal situation.

ARVDplus offers some major advantages. As the relay nozzles are responsible for 75% of total air consumption, optimizing the timing significantly impacts the overall air consumption, without compromising on fabric quality. By reducing the actual blowing time of the relay nozzles, the filling is less affected by high air pressure during the insertion cycle, which reduces damage and enhances the weaveability of weaker yarns on wide machines.

ARVDplus has been tested and proved effectively in the field on a broad range of yarns and gives optimal results with both spun and filament yarns.This software option is available on the new OMNIplus 800, OMNIplus Summum and TERRYplus 800 airjet machines and also as an aftermarket solution. Air consumption savings of up to 12% can be achieved depending on the type of filling yarn.

The second system, AirMaster, consists of an air consumption meter and a software module installed on the machine. This allows the user to see the actual and average air consumption during operation. These values are constantly shown on the display and compared with a maximum value set by the user. When several machines are running the same style, this enables their consumption figures to be compared: the perfect way to check for the optimum settings and to see the condition of the pneumatic settings on the machines. The consumption data from the individual machines can also be collected on the central computer, providing the necessary data for weaving managers and the technical team.

Managing consumption also means being able to test the condition of the insertion system on the weaving machine. With AirMaster this is now fully automated on the OMNIplus Summum. The weaver can activate an auto-check mode during which the machine makes a diagnosis of all important elements of the insertion system, not only for air consumption (leakages) but also to verify if all valves and regulators are still working as they are supposed to. The fully electronic settings on the OMNIplus Summum make it possible to adapt the pressure levels automatically. The microprocessor controller goes through a routine in which functional groups are switched on and off while their consumption and response times are checked. After pushing the start button the machine does the rest. Upon completion, the machine generates a full report. These data are stored in the machine and can be consulted at any time. All these features make the Airmaster a key feature in air consumption management, available as a fully integrated option on the OMNIplus Summum. AirMaster is also available as an upgrade for previous machine generations.

Drawing on the user experience of key Picanol customers along with the technical possibilities of the OMNIplus Summum insertion system, the AirMaster has now been taken to an even higher level with new functions.

If you remember that on airjet machines, compressed air accounts for up to two thirds of total energy consumption, then you know how important and smart these solutions are. Whereas electricity consumption tends to be relatively invariable, air consumption is definitely not. Indeed there is a lot the weaver can do to keep it under control. Given that additional air consumption of just 1 Nm³/h represents an extra cost of around 60-70 euros on a yearly basis, having the proper tools to manage air consumption is clearly a good investment.

Webiste: www.picanol.be Twitter: #weavingmachine



OMNIplus Summum © 2018 Picanol



In 2018 weaving machine manufacturer SMIT, since 2015 part of the Swiss Italian SANTEX RI-MAR GROUP, celebrates its 80th anniversary. On February the 21st of 1938 the company was founded in Italy by the Board of Directors of Lanerossi, the largest Italian wool mill at that time. 80 years of company history are certainly a good reason to break with another tradition and to present a brandnew machine for the first time to the public outside the ITMA. Thus, the ITM 2018 was able to enjoy a worldwide premiere. And, as a matter of course, the latest model of the SMIT GS 900 series and the first SMIT release after the entrance in SANTEX RIMAR GROUP has been named GS 980 to underline the 80 years of success and innovation. "SMIT GS980 will bring more value to our customers and the best ratio between productivity versus running costs" said Simone Rancan, SMIT CEO, shortly before the ITM 2018 has started. And he concluded: "The quality of the fabric produced with our machines has always been a reference for the market and with the new SMIT GS980 we will surely continue to exploit this advantage. The general trend of moving towards productions of higher quality fabrics is already happening and some of our customers at the moment are exploiting some market niches where they can find more profitability: in these circumstances our new SMIT GS980 is the right technology for forward momentum".

Unsurprisingly, SMIT and the SANTEX RIMAR GROUP have become one of the major trade fair highlights with the presentation of a complete new machine. At least every weaver wanted to take a look at the machine and ask a few questions as far as the crowd allowed.

Let's have a look at some highlights. According to SANTEX RIMAR Group the new SMIT GS980 is the fastest free flight rapier machine of the market and has improved in terms of versatility, performance, production quality, efficiency and sustainability. The free flight ribbons system marks out SMIT weaving machine since years: smart and flexible, SMIT GS980 has been designed and manufactured in Italy. It combines some of the most reliable SMIT features with groundbreaking function solutions that make SMIT GS980 an asset that will keep its value for a long time, SMIT promises. Fabrics for apparel, home textile, technical applications and exclusive yarns and patterns can today be woven with excellent quality on SMIT GS980.

If you ask yourself what's new at the machine we can only say there is a lot and present the headlines of the novelties. The brochure lists no less than 15 new or modified components. This includes: a new high efficient and heavy torque motor, a new direct drive, a new dobby, new energy efficient power transmission, a new shedding motion, new patented grippers, a new leno force system, new sturdy and high-resolution encoders, a new high performance efficient lubrication system, new aluminum ergonomic protection and last but not least four software updates. Not bad. The idea behind the new GS 980 is to improve productivity in terms of speed combined with efficiency and versatility for the widest range of production.

If you can't wait and want to know more about the single features or even want to see the new GS 980 live and in action mode we are sure the SMIT and SANTEX RIMAR stuff will be able to solve this problem.

Website: www.santexrimar.com Twitter: #weavingmachine



Digital Printing

DITF Denkendorf develops new pigment inks



Pigment ink and print head of a digital printer © 2018 DITF

The German Institute of Textile and Fiber Research (DITF) in Denkendorf has developed a chemical product preparation for inkjet printing. Thereby it has been DITF's mission to develop a solution that would achieve optimum results on the finished textile: Excellent edge definition, good color fastness and soft feel.

The pigment inks used within the research project are an in-house development from DITF: Fine-particle pigment dispersions are manufactured from organic color pigments. The addition of binding agents allows good adhesion of the pigments on the textile substrate.

And the addition of additives to the mixture allows additional properties of the pigment inks such as their hygroscopic or rheological properties to be influenced. In conjunction with the selected pre-treatment chemicals, the pigment inks enable excellent printing results. Test prints on cotton substrates showed excellent contour qualities, color fastness and high color depths. DITF says the chemicals applied in an optimized technical process set the quality standard in digital textile printing.

www.ditf.de



DFG Research Training Group 2430 "Interactive Fiber Elastomer Composites" granted

Dresden researchers want to develop a completely new class of materials in which actuators and sensors are integrated into flexible fiber composites. The German Research Foundation (DFG) has approved the new Research Training Group 2430 (DFG-Graduiertenkolleg 2430) "Interactive Fiber Elastomer Composites" at TU Dresden in cooperation with the Leibniz Institute for Polymer Research Dresden. The speaker is Prof. Chokri Cherif from the Institute of Textile Machinery and Textile High Performance Materials Technology (ITM) of the TU Dresden. In the next 4.5 years, in addition to material and project funding, a total of 11 doctoral students will be supported in 11 interdisciplinary subprojects.



Project leader of the Research Training Group 2430 "Interactive Fiber Elastomer Composites" © 2018 ITM / TUD

The aim is the simulation-based development of intelligent material combinations for so-called self-contained fiber composite materials. Actuators and sensors are integrated into the structures and no longer need to be retrofitted as before. This makes the systems more robust, and complex preforming patterns can be tailor-made at the desired point - reversibly and without contact. Intensive research has been carried out on this topic at the TU Dresden and especially at the ITM for years.



Creation of a new material class "Interactive fiber-elastomer composites"

Fiber composites are being used more and more in moving components due to the high specific stiffness and strength and the ability to tailor these properties. The integration of adaptive functionality into such materials eliminates the need for subsequent actuator placement and significantly improves the robustness of the system. Particularly promising are actuators and sensors on a textile basis, as they are researched and developed at the ITM, as they can be integrated directly into the fiber composite materials in the manufacturing process.

The innovative approach consists in creating and scientifically penetrating the material class of interactive fiber-elastomer composites (I-FEV) with structurally integrated actuators and sensors, which is not available today. With their innovative properties, interactive fiber-elastomer composites are predestined for numerous fields of application in machine and vehicle construction, in robotics, architecture, orthotics and prosthetics: Examples are systems for precise gripping and transport processes (eg for hand prostheses, closures and deformable membranes) and components (eg trim tabs for land and water vehicles).

tu-dresden.de/ing/maschinenwesen/itm

Composites

ITA presented NRP longboard on the Hannover Messe

The Institut für Textiltechnik (ITA) der RWTH Aachen University has presented a longboard deck made of natural fibre-reinforced plastic (NRP) at the stand of the Federal Ministry of Economics and Energy (BMWi. Using natural fibres represents an ecological alternative to resource-intensive reinforcing materials such as glass fibres. In cooperation with the Institute of Polymer Materials and Plastics Technology at Clausthal University of Technology, the ITA investigates the potential of highly oriented natural fibre fabrics for structural fibre composite applications as part of the Hy-Per-NFP (High-Performance Natural Fibre Reinforced Plastics) project.



Longboard deck made of natural fibre reinforced plastic © 2018 ITA

With this innovative approach, the otherwise necessary yarn building process can be eliminated. The natural fibres can thus be oriented more in load direction so that the composite show better mechanical properties comparable to those of glass fibre-reinforced plastic (GRP). At the same time, the savings in the spinning process lead to a significant reduction in process costs. Compared to GRP, significantly less energy is also required for the production, making the new composite material more ecological. By improving the mechanical properties and reducing the price of materials, the course is set for the application of NRP in structural components.

www.ita.rwth-aachen.de

Technical textiles

Material Innovativ will turn to MatX!

Making materials and materials technologies tangible! Think outside the box - this is the motto of MatX, the interdisciplinary and cross-industry meeting place for material innovations on 27 and 28 June 2018 in Nuremberg. At the two-day conference, national and international speakers and thought leaders report on innovative developments in the materials industry and show which materials determine the future and how the transfer to potential applications and business models can succeed. Speedfactory meets 3D printing in the production of athletic footwear, mattresses and textiles made from carbon dioxide-based polyurethane materials, or linking self-learning machine vision systems and intelligent robots with artificial intelligence for the factory of the future - these are just a few examples of high-tech Applications and process innovations that will be presented on the MatX.

Materials science is one of the biggest innovation engines. New materials affect almost all areas of life in our modern society. Thus, the program around the key topics of additive manufacturing, multi-material design / lightweight construction and sustainability also covers a wide range of topics: production processes in the new machine age, lightweight materials and multi-material design for the mobility of the future, advances in additives Production and application examples from everyday life. Circular Economy and BioEconomy, materials for the city of the future as well as applications and applications of exoskeletons and human machine interfaces in production plants are further core topics of MatX.

Up to 500 experts in materials technologies, innovation drivers and visionaries, lecturers and scientists from materials science, chemistry, mechanical engineering, process engineering as well as users from the mobility and lightweight construction sector, aerospace, bioeconomy and the energy sector will discuss the potential new material developments. Participants are for example Adidas, Additive Industries, UPM, Staedtler, Gubesch Group, Covestro, BMW, Bilfinger Noell, ZAE, Energy Campus Nuremberg, Nova Institute, active architecture, Bavarian Mountain Rescue , FAU Erlangen, Fraunhofer IGCV, KIT, Fraunhofer IWKS, OTH Regensburg, Institute for Composites IVW, ITA Augsburg, Siemens, HP, Merck, University of Bayreuth, Magna Steyr, LCT, Framatome, INEOS Styrolution, Sicony, UPM.The Cluster New Materials and Bayern Innovativ invites people to spend two exciting days to discover advanced materials techologies and applications.

www.matx-2018.de

Smart Textiles

6. User Forum SMART TEXTILES at TITV Greiz



© 2018 TITV Greiz

The meeting for researchers, developers, manufacturers and user companies shows overwhelming interest in smart textiles. In the world of rail vehicles, the 6th user forum SMART TEXTILES led the 160 participants, 70% of whom came from the industry. The impressive tour through the assembly halls of the Stadler Pankow GmbH, the German branch of the successful Swiss Stadler Railgroup in Berlin, showed that individuality and quality in rail vehicles lead to success. Exciting lectures by the manufacturers showed the variety of applications of smart textiles. The digital transformation is already changing the working environment.

From the point of view of UVEX as a system provider for PSA, digitization and thus the smart textiles offer interesting opportunities to develop entire security assistance systems. An important role is played by the integration of electronics in the PSA, such as For example, for personalized safety gloves, lighting elements and gesture control in jackets or for the fit analysis in smart shoes. Dr. UVEX's Markus Burkhardt presented the latest concepts, developments, strategies as well as the integration hurdles of networked digital PSA.

Vera Gail, Schoeller Textil AG, Switzerland, for example, believes that there is a need for improvement in the commercialization of smart textiles due to inadequate wear and care behavior and the low level of automation of production. With E-Soft Shell, the company has just taken on these challenges and developed an actively heated clothing. E-Soft-Shell is a laminate designed as a piece. Due to the conductive structures in the lining, the cut pieces are freely cut to size and ensure uniform heating.

With refreshingly new product ideas and innovative business models, the startups come onto the market. The company Texlock GmbH from Leipzig, for example, developed a super-light bicycle lock that weighs less than 400 grams per meter. It is made of high-tech fibers with dirt-repellent outer material, is flexible and extremely safe.

It is particularly interesting that the financing of the development of the "tex-lock" up to the market launch by crowdfunding in a Kickstarter project. The production "Made in Germany" starts next month.

The next, the 7th user forum SMART TEXTILES is already planned and will take place on 27./28. February 2019.

www.titv-greiz.de

Textile Technology

16th Chemnitz Textile Technology Conference

"Technology advantage through textile technology" is the motto of the 16th Chemnitz Textile Technology Conference (CTT). It corresponds to mtex + & LiMA on 28./29. May 2018 in Hall 2. It starts already on the eve of the official beginning of the trade fair. In 35 lectures, renowned experts from Belgium, Germany and Switzerland address topics such as Industry 4.0; Lightweight construction for rail vehicles; resource efficient textile processes; Semi-finished products, preforms and smart textiles; Biologisation in production; Process and structure simulation; Joining technology for hybrid material systems as well as sustainability of textile processes and recycling. Organizers are the Förderverein Cetex e. V., the Institute for Structural Lightweight Structures of the TU Chemnitz, the Saxon Textile Research Institute (STFI) and the Association of the North-East German Textile and Garment Industry e. V. (vti).

www.chemtextiles.de

Industry 4.0

ITA digitizes in Berlin - Shop window opening in "Mittelstand 4.0-Kompetenzzentrum Textil vernetzt"

The "Mittelstand 4.0-Kompetenzzentrum Textil vernetzt" has opened its showroom in the Berlin office, which offers SMEs in the textile and clothing industry ideas on the possibilities offered by digital transformation. Interested entrepreneurs as well as representatives from politics and associations met for the opening in Berlin on April 19. Introductory greetings came from Stefan Schnorr, Head of the Department of Digital and Innovation Policy at the Federal Ministry of Economics and Energy (BMWi), and Ingeborg Neumann, President of the Gesamtverband textil+mode, who heads the competence centre.



ITA Institute Director Prof. Dr Thomas Gries presents the focus on Work 4.0 of the Shop Window in Aachen textil+mode

In addition to theoretical presentations, the panel discussion between Otto Fricke (FDP), full member of the Federal Finance Committee and the Budget Committee, and the two textile companies Sebastian Ihling, Alfred Apelt GmbH, and Peter Brunsberg, bagjack e. K., provided insights into practice. In an interview with Mr. Fricke, Mr. Brunsberg and Mr. Ihling reported on their experiences to date with digitization in the textile industry. In addition to the lectures from practice and theory, the team from "Textil vernetzt" took the opportunity to present itself and its services in more detail within the framework of the partnership. The Institut für Textiltechnik (ITA) of RWTH Aachen University has set itself the goal of taking employees in SMEs along in digital change. ITA Institute Director Prof Dr Thomas Gries describe d the importance of further education and training measures for employees in order to reduce obstacles to digitisation. In a Learning Factory 4.0, the Digital Capability Center, ITA uses a networked textile process chain, including assistance systems, to illustrate how digital transformation can succeed. The project partners of the other shop windows are the DITF in Denkendorf, the STFI in Chemnitz, and the Hahn-Schickard-Gesellschaft in Stuttgart, all situated in Germany. At the heart of the showroom of "Textil vernetzt" is an embroidery machine that illustrates the benefits of digital change in the textile industry. Thanks to the complete networking of this machine, customer-specific products can be manufactured quickly and flexibly.

The focus of textile networking - digital engineering, networked production, use of assistance systems and smart sensor technology - will be demonstrated at the exhibit. Guided tours through the showroom are available for small and medium-sized businesses and other interested parties.

www.ita.rwth-aachen.de

Industry 4.0

Opening of ITA showcase in the DCC Aachen

On May 29, the ITA will open its showcase in the Digital Capability Center in Aachen, Germany, under the theme "New social infrastructures of work, qualification and lifelong learning". Interested parties from companies, representatives from associations, politics and the media are cordially invited to this event.

www.ita.rwth-aachen.de

Sustainability

Project "GreenRelease for Plant Health" wins Innovation Award

Researchers from RWTH Aachen University, the DWI - Leibniz Institute, the Bioeconomy Science Center (BioSC) and the SFB 985 won the Innovation Award 2018 for their joint project 'GreenRelease for Plant Health'. Only three projects can receive the € 2,000 prize, which was awarded for the eleventh time in 2018. Among them is the project entitled "GreenRelease for Plant Health", which was commissioned by Dr. Ing. Felix Jakob, Prof. Dr. Ulrich Schwaneberg and Prof. Dr. med. Andrij Pich.



The three award winning teams (c) 2018 (Fotos: Sera Z.Kurc)

The three researchers at RWTH Aachen University have invented microgel containers that ensure that preservatives remain attached to the plant even after rain and are only slowly released. The reduced use of chemicals in fields could in future relieve the burden on the soil and thus solve an important agricultural problem, the jury decided in its decision.

www.dwi.rwth-aachen.de

People

DITF Board Chairman Hans Hyrenbach awarded the Federal Cross of Merit



After the ceremonial handover: State Secretary Katrin Schütz, Hans Hyrenbach, Mechthild Hyrenbach (from left). © 2018 Ministry of Economics, Labor and Housing Baden-Württemberg

Hans Hyrenbach has been committed to structural change in the textile industry for many years with extensive specialist knowledge and a high degree of personal commitment in many functions. As chairman of the Board of Trustees of the German Institutes for Textile and Fiber Research (DITF) in Denkendorf, he made a decisive contribution to putting the future topic of technical textiles made of modern high-performance fibers at the center of research instead of classic clothing textiles. For his diverse work in the areas of business, society and culture, Hans Hyrenbach has now been awarded the Federal Cross of Merit (Verdienstkreuz am Bande des Verdienstordens der Bundesrepublik Deutschland) by the Federal President Frank-Walter-Steinmeier.

www.ditf.de

Topics of the next issue 3 /2018

TOP STORY:

Advanced Materials

+ Smart, high performance materials

- + Textile solutions for light-weight
- + Multifunctional textile surfaces

Yarns & Fibers

Preview CINTE Techtextil China 2018 Preview Composites Europe 2018

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Cotton Spinning process Special: Denim Textile Machinery Focus: Nonwovens

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