

Spring 2019

# In-Line with fi-tech

A Publication for Synthetic Fibers, Nonwovens and Textile Producers

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**Todd Bassett**

Welcome to the spring issue of *In-Line with Fi-Tech*. We have a busy spring ahead of us with some important shows on the horizon for the Nonwovens, Textiles and Fiber Industries. In late March, we will be in sunny Miami Beach for the IDEA 2019 Show. This show provides a meeting point for the complete Nonwovens

Industry supply chain with nearly 500 exhibitors and over 7,000 visitors. In May, Ian Mills and I will be travelling to the Tectextil Show in Frankfurt to support our principals exhibiting at this important international trade show for the Technical Textile Industry. ITMA 2019 is one of the most important shows worldwide for the Textile and Synthetic Fiber Industries and will be taking place in Barcelona, June 20-26. While Fi-Tech will not have a booth at this show, we are sending 8 salesmen from our US and Mexico offices to support our principals exhibiting at the show, and the strong contingent of customers expected to be attending the show from our US and Mexico customer base. Inside are more details on these important shows and our principals who will be exhibiting.

We would like to welcome Charles Jolly to the Fi-Tech team. He joined us in February as Field Service Technician in support of our Mayer & Cie product line and will work closely with Darrell Smith. Charles has many years of experience as a Service Technician in the Circular Knitting Loom Industry.

On January 1, Fi-Tech began representing Hansa Mixer of Bremen, Germany. We look forward to working together with Hansa Mixer to promote their line of foam generators. Fi-Tech will be responsible for industrial mixing and foam generation activities in primarily the nonwoven, indoor/outdoor carpet, home furnishings, textiles and roofing/construction products markets.

We hope you enjoy this issue of *In-Line with Fi-Tech* and look forward to seeing you at one of the coming exhibitions!

## HANSA MIXER Selects Fi-Tech for Representation in Non-Food Markets Facility

HANSA MIXER, based near Bremen, Germany, has a strong reputation as one of the leading suppliers



**HANSA UNI-MIX**

of in-line mixing machines and foam generators. Having sold more than 5000 machines to more than 2000 customers in over 120 countries during the last 40 years, HANSA Mixer has become the trusted source. Customers appreciate their strong reliability and comprehensive service and solutions. They pride themselves on knowing that most all machines sold are still in production today.

Fi-Tech, Inc. is pleased to begin our association with HANSA MIXER effective January 1, 2019 in the USA



**HANSA Various-Mix**

and Canada. Their strong philosophy of substantial R&D, continuous improvement and close cooperation with industry leading partners such as Bosch, BASF and Henkel, fits very well with Fi-Tech's desire to bring leading technology and solutions

■ Continued on page 5

## ITMA 2019 Returns to Beautiful Barcelona



Do you want to get up to date on the latest and greatest in textile machinery? You can find out soon, as the International Textile Machinery Exhibition will take place from **June 20 through June 26, 2019** at the Fira de Barcelona Gran Via in Barcelona, Spain. ITMA is recognized as the premiere trade show of the textile and garment machinery industry and has been held every four years since 1951.

Many of our European associates will be exhibiting at the fair. Following is a short preview of where to find us, and what to look for:

### Fibers and Nonwovens:

#### **Autefa GmbH: Hall 5, Booth C111**

Bale Presses, Bale Wrapping and Strapping, Tow Plaiters

#### **Enka Tecnica GmbH: Hall 5, Booth 129**

World leader in the precision manufacturing of Spinnerets for the synthetic fiber and nonwoven fabric industries as well as precision micro components for other markets. Enka's product line includes spinnerets for aramid, acetate, polyester, polypropylene, and nylon fibers as well as spunbond, meltblown and hydroentangled nonwovens.

#### **Galan Textile Machinery SL: Hall 7, Booth C121**

Galan will be exhibiting a number of their World Renowned Twisting and Winding machines. Please stop by and see a vast array of Mini-Twisters and Winders set up and ready to go.

#### **Hansa Industrie-Mixer GmbH: Hall 2, Booth C315**

Machines for the in line mixing and foaming of additives for textiles, nonwovens, carpet and other applications. These machines provide more uniform application of additives and help customers realize material cost savings.

#### **Hastem transportbänder GmbH: Hall 5, Booth B116**

Flat and spiked lattices and conveyor belts. Hastem is a premier producer

of slat conveyors and modular belts. For more than 40 years the name Hastem has been synonymous with innovation, design and construction of slat transport aprons.

#### **Heberlein AG: Hall 6, Booth 202**

Come see the latest in ATY texturing as Heberlein will be showcasing their latest development, TexJet. Also on display will be air jets and interlacing jets, splicers and air aspirators.

#### **Idrosistem Energy, Srl: Hall 8.1, Booth A118**

High volume water filtration/purification systems for Spun Lace production

#### **Mahlo GmbH:**

Mahlo® is the world's leading provider of control and automation systems for the textile finisher. Online monitoring systems for Basis Weight, Coat Weight, Thickness and Moisture

#### **Movengineering Srl:**

Polymer Filters and Specialty Pack Cleaning Systems

#### **Mozart AG: Hall 7, Booth C116**

Blades for short cut staple fibers and film slitting. Mozart will have on hand, a DM&E Cutter Reel, which will be demonstrating this exact application. Please stop by to take a look.

#### **Schill + Seilacher: H3, Booth D108**

Spin Finishes, Surfactants and Specialty Chemicals

## Heberlein AG

Heberlein AG is launching new products for modification and treatment of synthetic yarns in 2019 for better performance, less energy consumption, faster flexibility and higher quality. Heberlein will be attending the ITMA in Barcelona in June 2019, and will present new products for Spinning and Draw Texturizing according to their motto of less energy consumption, better performance and more flexibility.

The Heberlein AirSplicer POY, is the lightest AirSplicer for splicing POY during false twist texturing DTY. The automatic splice cycles ensures stable, operator independent quality. It has a robust design and guarantees smooth functioning under extreme condition and a high efficiency can be achieved by high transfer rates in the false twist texturing process. Furthermore, this device has a low weight of less than 0.5 KG.

The Heberlein SlideJet-2T is best for interlacing with lowest air consumption. The special design was developed for processing fine multifilament yarn on Twin-Pac DTY machines with converted take-up positions (for twin packages). The cutting edge jet insert technology ensures improved interlacing, small variation from position to position, and low air consumption. The ceramic material prevents premature wearing.

Heberlein PolyJet SP-2 HP provides high-performance air interlacing for filament spinning applications. The latest generation PolyJet has the full range of jet inserts for producing all yarns including finer denier (<50den) with 0.9 mm air orifice. The SP-2 HP offers high-performance in terms of air interlacing tack numbers and regularity, less broken filaments and reduced air consumption. It has been fully optimized for yarn less than 2.5 dpf and microfilaments operating at lower pressures. With a retrofit option, it is

## ► Heberlein AG cont...

possible to replace the jet pack on existing SP-2 housings or for customers specific designs such as Barmag FDY Wings and TMT ORKA POY production machines.

For the Taslan air-jet texturing program, all approved TexHead types are shown below; some will be launched and introduced for the first time at ITMA:

**Series Dx0**, such as D40, D50 - For voluminous yarns and high over feed up to 200%, for technical application and fashion

**Series Dx1**, such as D12 - For more volume, covering capacity, and overfeed and higher texturing speed

**Series Dx2**, such as D002 - For the processing of ultrafine ATY, total yarn count from 10 ... 50 dtex

**Series Dx3**, such as D13, D33, D43 - For extremely compact high stable yarns, for automotive and household textiles

**Series Dx4**, such as D14, D24, D34, D44 - For effect yarns, for fashion, sportswear, leisure wear and household textiles

## Heberlein News



**Tobias Federsel**

Tobias Federsel joined Heberlein in October 2010 as Team Leader in Ceramic Production and Product Management. He transitioned to the Sales Team in October 2018 and has overseen the US Sales Territory since December 2018. We look forward introducing Tobias to our customers during sales visits in late spring.

### Need Fi-Tech After Hours Service?



**Call:**  
**804-794-9615**  
You'll receive instructions on how to contact a Fi-Tech Team Member who is on call to assist you.

## Fi-Tech represents these companies to serve manufacturers of Fiber and Polymer Products

### **Ambersil - England**

Anti-Stick Silicone Spray, Spinneret Lubricants

### **Autefa Solutions GmbH - Germany**

Bale Presses, Bale Wrapping & Strapping Systems

### **Cason Textile Machinery - Italy**

Bobbin Strippers, Semi-Manual and Automatic POY/FDY Spinning Plants

### **DM&E Corp. - USA**

Fiber Cutters, Tension Stands, Cutter Reels, Crimper Repairs

### **Enka Tecnica GmbH - Germany**

Spinnerets, Extrusion Dies, Spinpacks, Breaker Plates

### **EuroSpares - USA**

Spare Parts Service for European Machinery

### **filtertechnik.Europe GmbH & Co. Kg - Germany**

Filter Screens for Spin Packs, Filters for Screen Changers, Filter Belts

### **Galan Textile Machinery- Spain**

Mini Twisters, Heavy Duty Twisters, Specialty Twisters

### **HANSA MIXER – Germany**

In Line Mixers and Foamers

### **Heberlein - Switzerland**

Air Interlacing Jets, Air Texturing Jets, Aspirators, Splicers, Suction Cut Units

### **MOVEngineering Srl - Italy**

Hypox® Spinneret & Pack Cleaning Units, Hypox® Polymer Filter Systems, Auxiliary Cleaning Equipment

### **Mozart AG - Germany**

Staple Cutting Blades, Film Slitting Blades

### **Reifenhäuser REICOFIL® GmbH & Co. KG - Germany**

Extruders, REICOFIL Spinbonding Plants, Melt Blowing Plants

### **Saurer Fibrevison - United Kingdom**

On Line Monitoring Systems, Sensors, Lab and At Line Monitoring Systems

### **Saurer Technologies GmbH & Co. KG - Germany**

Texturing Units, PU Friction Discs, Air Entangling Jets for BCF, Industrial & Glass Fibers, Separator Rollers, Guide Rollers, Special Bearings

### **Schill+Seilacher GmbH - Germany**

Spin Finishes, Fiber Auxiliary Chemicals

### **Sikoplast Recycling Technology GmbH - Germany**

Recycling Plants for PET, PA, PP and PE Waste

### **Technip Zimmer GmbH - Germany**

Complete Engineered Staple Fiber & Filament Plants, Plants for Engineered Plastics, Polymerization & Solid State Polycondensation Plant

### **Tokuden Co., Ltd. - Japan**

Induction Heated Rolls®

### **Zentes Unitex GmbH - Germany**

Promik Spinneret Inspection Devices, Melt Pump Tester, Spin Finish Pump Tester, Specialty Chemicals



## IDEA19 Returns to Miami Beach

On **March 25-28**, **IDEA19** returns to the newly-renovated Miami Beach Convention Center. IDEA19 is the premier event of the Nonwovens Industry bringing together all aspects of nonwovens including raw materials, machinery, components, and roll goods. The following suppliers represented by Fi-Tech will be exhibiting:

### **AstenJohnson Advanced Fabrics – Fi-Tech Booth 1402**

Key personnel from AstenJohnson will be on hand to discuss their complete line of technical fabrics for spunbond, meltblown, airlay and high speed carding applications. The technical team at AstenJohnson continues to innovate with new fabric designs improving performance and lifetime.

### **Brückner Textile Technologies – Fi-Tech Booth 1402**

Brückner is a leading producer of finishing and thermal treatment lines and dryers for the Nonwovens Industry. Representatives of Brückner will be present to discuss its newest developments in belt dryers. This includes belt dryers with high evaporation capacity for hydroentangled nonwovens and belt dryers with gentle transport and precise temperature control for thermo-fused carded nonwovens for ADL.

### **Enka Tecnica GmbH – Booth 1506**

Enka Tecnica continues to lead the way in new technologies for making precision spinnerets, hydroentanglement jet strips, melt blowing die tips and spinning nozzles. Enka has consistently demonstrated their ability to provide precision quality products with reliable delivery times.

### **Hastem GmbH - Fi-Tech Booth 1402**

Hastem is a developer and producer of slat conveyors. For more than 50 years the name Hastem has been synonymous with innovation, design and construction of slat transport

### aprons and spiked/needle aprons. **IDROSISTEM energy Srl - Fi-Tech Booth 1402**

IDROSISTEM has specialized in the treatment of water for spunlace plants for many years. During this period, IDROSISTEM has analyzed the main problems of the industry and has developed specialized technologies to solve them. All of IDROSISTEM's engineers, technicians and designers are fully qualified and dedicated to providing customers with the best plants. IDROSISTEM constantly strives to improve its technology to offer its clients the best crystal clear technologies for water treatment for the Nonwovens Industry.

### **Reifenhäuser REICOFIL® GmbH – Booth 1502**

Whenever anyone talks about spunbond, meltblown and composite nonwovens, the name which naturally comes to mind is REICOFIL. They are world renown for high productivity and quality nonwovens production lines, whether it is for spunbond, meltblown, composites, bi-component, fine denier, or PET fabrics. The REICOFIL booth will have technical representatives available to provide the latest information on all of these important nonwoven processes.

### **Spoolex-Calemard – Fi-Tech Booth 1402**

As experts in the spooling of nonwovens and tension-sensitive materials, Spoolex specializes in complete solutions for handling master rolls, slitting, spooling and downstream handling of spooled rolls to maximize productivity and safety.

The PEGASE spooling system is well known and experts from Spoolex will be on hand to discuss your specific applications.

### **Schill+Seilacher GmbH – Fi-Tech Booth 1402**

Schill+Seilacher is the world's largest supplier of technical finishes for the Nonwoven Industry. Every application requires a specialized finish, and Schill+Seilacher has the chemists to custom design and tailor finishes for each customer's unique needs. Whether it is anti-static properties, food packaging, hygiene, medical, hydrophobic or hydrophilic characteristics, they can offer solutions.

### **Saueressig UNGRICHT/Surface Solutions – Fi-Tech Booth 1402**

Ungricht leads the world in the custom manufacture of calender rolls for thermal bonding and embossing. The NTS, nano to surface treatment, for engraved rolls increases performance and line efficiency by reducing build up and calender wraps. Their catalogue of available designs and patterns is unmatched in the industry. This is coupled with the long experience, skill and know-how needed to make these critical rolls. In addition to new rolls, they also offer re-engraving and refurbishing services for damaged or worn rolls.

## Reicofil® 5 Selected as finalist for IDEA 2019 Achievement Awards

Reifenhauser REICOFIL's new RF5 technology platform impressed INDA's Technical Advisory Board and has been selected as one of 3 finalists for the IDEA 2019 Achievement Award in the Equipment Category. The award will be announced and presented at the IDEA show. The winner will be selected based on voting by industry professionals leading up to the award announcement.

The RF5 Technology Platform sets new standards for spunbond, meltblown and composite nonwovens improving on productivity/efficiency, reliability, and fabric quality while also greatly increasing the process window leading to greater flexibility. The technology also introduces machine intelligence and leading Industry 4.0 technology for better operation, diagnostics and preventative maintenance. To learn more, visit Reicofil Booth #1502 at IDEA 2019 – Miami Beach.

## ► Hansa Mixer cont...

to our customer base on N. America. Fi-Tech will be responsible for industrial mixing and foam generation activities in primarily the nonwoven, indoor/outdoor carpet, home furnishings, textiles and roofing/construction products markets.

We look forward to working together with HANSA MIXER to promote their line of foam generators for all foam types (mechanical, unstable, metastable and stable) and to demonstrate why these systems are the most economical and ecological on the market today. These systems conserve raw material, labor and energy, are fully automated, deliver uniform quality and highly attractive foam products. In addition, the Various-Mix in line mixing system for PU applications or fabrication of latex mattresses or latex application in carpets or textiles is a true alternative to conventional batch processing. The Various-Mix allows for in line mixing of dry components/powders with liquid media for more efficient application over batch mixing.

Contact Fi-Tech for more information on this truly amazing technology.

## Fi-Tech represents these companies to serve manufacturers of Nonwoven Products

### AstenJohnson Advanced Fabrics - USA

Woven Plastic & Metal Wire Belts, Forming Fabrics, Dryer Fabrics, Transport Belts

### Brückner Textile Technologies - Germany

Thru Air Dryers and Heat Setters, Stenters, Heat Recovery and Air Purification Systems, Laminating Equipment

### Enka Tecnica GmbH - Germany

Spinnerets, Extrusion Dies, Jet Strips, Die Tips, Repairs

### EuroSpares - USA

Spare Parts Service for European Machinery

### filtertechnik.Europe GmbH & Co. Kg - Germany

Filter Screens for Spin Packs, Filters for Screen Changers, Filter Belts

### HANSA MIXER – Germany

In Line Mixers and Foamers

### Hastem Transportbänder GmbH - Germany

Slat Aprons, Spiked/Needle Aprons, Spare Parts

### Idrosistem Srl - Italy

Water Filtration Systems for Spun Lace Production

### Industrial Machine Mfg., Inc. - USA

Spin Pack Components, Precision Custom-made Machine Parts

### MOVEngineering Srl - Italy

Hypox® Spinneret & Pack Cleaning Units, Hypox® Polymer Filter Systems, Auxiliary Cleaning Equipment

### Reifenhäuser REICOFIL® GMBH & CO. KG - Germany

Turnkey Plants for Spun Bond, Meltblown, Composite, Laminated Fabrics, Bicomponent, Maintenance Products, Spare Parts

### Saurer Technologies GmbH & Co. KG - Germany

Guide Rollers, Separator Rollers, Special Rollers and Bearings for High Speed Applications

### Saueressig UNGRICHT Surface Solutions – Germany

Calender Engraved & Smooth Rollers, Embossing Rollers, Engraved & Smooth Chill Rolls, Heated

Non Stick Press Rolls, and Ultrasonic Anvils

### Schill+Seilacher GmbH - Germany

Surfactants, Antistats, Specialty Chemicals

### Sikoplast Recycling Technology GmbH - Germany

Recycling Plants for PET, PA, PP and PE Waste

### Spoolex/Calemard - France

PEGASE Traversing Winders & Spooling Equipment, Orion and Centaure Slitter/Rewinders

### Tokuden Co., Ltd. - Japan

Induction Heated Rolls®

### WISTA GmbH - Germany

Punch Perforating Machines, Commission Perforating Services

### Zentes Unitex GmbH - Germany

Promik Spinneret Inspection Devices, Pocket Microscopes

## Techtextil



Fi-Tech personnel will attend the European Techtextil held at the Messe Frankfurt Exhibition Center **May 14th through 17th 2019**.

The exhibitors at Techtextil represent the complete spectrum of technical textiles, woven and non-woven fabrics, coated textiles and functional apparel. This year there is a significant increase in the number of exhibitors in the fields of technology focused on fibers and yarns. In particular, representatives from industry, architecture and construction, the fashion and clothing industry, the automotive sector, aerospace, medicine, sport, and hazard protection will find a comprehensive range of products.

The following Fi-Tech principals will attend this show:

### **Brückner Textile Technologies**

**Hall 3.0 Booth F29**

Coating, curing and heat setting ovens for technical textiles, nonwovens, glass fiber fabric and floor coverings

### **Galan Textile Machines SL**

**Hall 3.0 Booth G25**

Twisters, winders and kiss roll applicators for the thread, paper and rope industries

### **Ontec GmbH**

**Hall 3.1 Booth J24**

Turbotex scrim machine, coaters and winders

### **Saueressig UNGRICHT Surface Solutions**

**Hall 3.0 Booth B12**

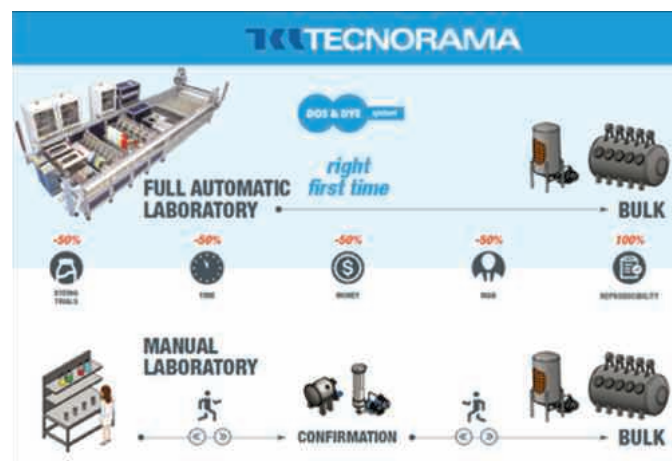
Calender Rolls for spunbond, meltblown and thermal bond nonwovens; Heated Rolls for calibrating, compacting and finishing; Complete roll re-engraving and refurbishing service

### **Schill+Seilacher GmbH**

**Hall 3.0 Booth B59**

Spin Finishes, Surfactants and Specialty Chemicals

## Tecnorama- Right First Time



Since 1984, Tecnorama has been developing automated dispensing and dyeing systems for small batch dyeing for laboratory and bulk, through the combination and integration of automatic dispensing machines with special robotized dyeing machines to dye any textile material.

By elimination of human error, variation from operator to operator, better accuracy of measurement, and the ability to replicate the exact production dyeing process in a laboratory results in significant improvements in Right First Time recipes.

Tecnorama's fully automated DOS & DYE Systems are capable of solution making, dispensing and dyeing completely robotically and can be programmed to work without manual intervention for 24 hrs a day and 7 days a week processing.

The DOS & DYE system can be directly connected to the centralized dyehouse managing software to automatically transfer programmed recipes and dyeing processes. Solution making, dispensing and two different types of dyeing machines can be supplied in both fully automated or semi-automated formats and scaled to fit the customer's needs.

The benefits of The Right First Time approach result in significant savings in time, cost, manpower and show huge improvements in reproducibility.

To see the full selection of Tecnorama laboratory and bulk dispensing systems please visit [www.tecnorama.it](http://www.tecnorama.it) or contact Ian Mills; ([imills@fi-tech.com](mailto:imills@fi-tech.com)) or Fred Adams ([fadams@fi-tech.com](mailto:fadams@fi-tech.com)).

## Welcome to Fi-Tech!



**Charles Jolly**

Fi-Tech is pleased to welcome the newest member of our team, with Charles Jolly joining the company in February 2019. Charles will boost our field technical service resources supporting our principal, Mayer and Cie, headquartered in Albstadt, Germany.

Prior to joining Fi-Tech, Charles has worked for major circular knitting machine manufacturers with installation, service, training and troubleshooting experience in both USA and Central America. With an office in North Carolina, Charles will be able to provide expedited support to our customers located in the region and will provide services to other regions in USA, Canada, and Central America.

► ITMA 2019 cont.....

**Saurer Fibrevision Ltd.: Hall 6, Booth 202**  
On Line Monitoring Systems, Sensors, Lab and At Line Monitoring Systems

**Saurer Temco Components: Hall 6, Booth 201**  
BCF Intermingling Jets, Jet Inserts, Separator Rollers, USL Hollow Spindles, PU Friction Discs, Friction Units, Bearings for High Speed applications

**Spoolex SAS – France:**  
Pegase Traversing Winders and Spooling Equipment, Orion Slitter Rewinders for Narrow Width Pancake Rolls, Centaure Slitter Rewinders for Wider Width Pancake Rolls

**Zentes Unitex GmbH: Hall UL, Booth D213**  
Spinneret Inspection Systems, Specialty Chemicals and Components for the fibers industry

### Textiles

**Brückner: Hall 1, Booth A203**  
Finishing Lines for Woven and Knitted Fabrics; Drying, Curing, Dyeing Machinery; Thermobonding / Heatset Ovens

**Corino: Hall 2, Booth C208**  
Hydro Extraction, Rope Openers, De-Twisters, Tubular Slitters, Web Guiding, Padders

**Erbatech: Hall 2, Booth C302**  
Continuous Wet Finishing, Open Width Bleaching and Dying Ranges, Padders/Foulards, Vacuum Extraction, Tubular Bleaching and Dying Ranges

**Mayer and Cie.: Hall 8, Booth C204**  
Circular Knitting in Single-Double Jersey, Mechanical and Electronic Needle Selection, Super-sized Frames in Tubular and Open Width Spirit™ Technology

**Mario Crosta: Hall 2, Booth C115**  
Fabric Surface Finishing Equipment; Napping, Sueding, and Shearing Equipment; Flame, Hot Melt, and Powder Scattering Lamination Lines

**Ontec: Hall 5, Booth A113**  
Turbotex Scrim Fabric Machine

**Tecnorama: Hall 2, Booth B210**  
Automatic Dispensing Systems for Powder and Liquid Dyestuffs & Auxiliaries, Bulk and Laboratory Scale Systems

## Fi-Tech represents these companies to serve manufacturers of Textile/Technical Textile Products

**Brückner Textile Technologies GmbH & Co.KG - Germany**  
Tenter Frames, Thru Air Dryers, Compactors, Relax Dryers, Coating Systems, Heat Recovery and Air Purification

**Corino S.p.A. - Italy**  
Hydro Extraction, Rope Openers, Die Twisters, Tubular Slitters, Web/Edge Guidance Systems, Padders, Batching Stations, Fabric Inspection Machines

**Erbatech GmbH - Germany**  
Open Width Bleaching and Washing Ranges, Tubular Bleaching and Washing Ranges, Padders/Foulards, Vacuum Extraction, Cold Pad Batch

**Idrosistem Srl - Italy**  
Water Treatment and Recovery Plants for Textiles

**KKA GmbH - Germany**  
Coating, Roto-Gravure, Printing/Lacquering, Calendering, Laminating, Embossing, Slitter/Re-Winders

**Mario Crosta S.r.l. - Italy**  
Single/Double Drum Raising/Napping, Sueding, Shearing, Lamination

**Mayer & Cie. GmbH & Co. – Germany**  
Circular Knitting Machines for Jersey, Interlock, Rib, Jacquard and Elastomeric Plaiting

**Ontec Automation GmbH - Germany**  
Scrim Products for Reinforcement of Fabric Structures used in Roofing Membranes, Floor Coverings, Adhesive Tapes, Geo Textiles and Pool Liners

**Pindarus S.r.l. - Italy**  
Raising Fillet Wire, Cleaning Brush Wire, Felt and Rubber Backing

**Tecnorama S.R.L.**  
Automatic Powder and Liquid Dyestuff Dispensing, Bulk and Lab Scale Systems  
Automatic Powder and Liquid Dyestuff Dispensing, Bulk and Lab Scale Systems



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EVENTS CALENDAR

#### Techtextil North America

February 26-28, 2019  
Raleigh, NC  
[www.techtextilna.com](http://www.techtextilna.com)

#### IDEA 2019

March 25-28, 2019  
Miami Beach, FL  
[www.inda.org](http://www.inda.org)

#### Outlook Plus Latin America

May 7-9, 2019  
São Paulo, Brazil  
[www.edana.org](http://www.edana.org)

#### Techtextil

May 14-19, 2019  
Frankfurt, Germany  
[www.techtextil.com](http://www.techtextil.com)

#### ITMA 2019

June 20-26, 2019  
Barcelona, Spain  
[www.itma.com](http://www.itma.com)

#### World of Wipes 2019

June 25-27, 2019  
Atlanta, GA  
[www.inda.org](http://www.inda.org)