

Spring 2016

# In-Line with **fi-tech**

A Publication for Synthetic Fibers, Nonwovens and Textile Producers

Fi-Tech, Inc. 501 Research Road, Richmond, Virginia 23236-3090 • 804.794.9615 • Fax 804.794.9514 • e-mail: sales@fi-tech.com • www.fi-tech.com



**Todd Bassett**

It will be all hands on deck for Fi-Tech Sales Personnel during the first week of May, as Fi-Tech participates in two important trade shows for the North American Market. First, Fi-Tech and its principals working in the Nonwovens Industry will

be in Boston, May 2-5, for the IDEA16 Exhibition and Conference organized by INDA. This important show for the Nonwovens Industry is held every 3 years and draws more than 400 exhibitors and 7,000 attendees from 70 countries. Parallel to the IDEA Show, Fi-Tech will have representatives in Atlanta for the Techtextil North America Show, May 3-5. This exhibition and conference serves the Technical Textile and Synthetic Fiber Industries.

As we mentioned in our fall newsletter, Fi-Tech has revamped its website ([www.fi-tech.com](http://www.fi-tech.com)) to provide a fresher look with more information on the products and services we offer through our impressive group of principals. Although the website will continue to be a work in progress, considerable effort has been put forth by those Fi-Tech employees who volunteered their time and talent to create, organize, proof and input the voluminous amount of data. They also had valuable input in the layout and design. This was no small task and will be ongoing as we complete this first phase and continue to update, revise, and maintain the website going forward.

I would like to acknowledge and thank Traci Hubbard, Vicky Gant Wilson, Greg Waterman and Brian Williamson for their efforts to make the new website a reality!



Construction is proceeding on Fi-Tech's new 17,000 sq. ft. office and warehouse space. Although poor weather has slowed construction somewhat since the beginning of the year, we still anticipate moving into our new space by August.

## **IDEA 2016 – Boston Here We Come!**

In May, the Nonwoven Industry will focus on Boston, MA. Having moved north for this show cycle from Miami Beach to Boston, we are excited to be in Boston with the collective Nonwoven Industry consisting of raw materials, machinery, components, roll goods and end goods suppliers who will all be on hand to get all the latest information the Nonwoven Industry has to offer. IDEA16 will be held at the Boston Convention and Exhibition Center from May 3rd to 5th. The three day exhibition will give you direct access to all aspects of the industry including key principals represented by Fi-Tech, Inc. In Fi-Tech Booth #1005, we will feature our principals AstenJohnson Advanced Fabrics, Brückner Textile Technologies, Enka Tecnica, Spoolex/Calemard, Schill+Seilacher and Ungricht Roller + Engraving Technology. Representatives from these companies will be on hand to meet you. Nearby you will also find the stand of our long time principal Reifenhauer REICOFIL.

### **AstenJohnson Advanced Fabrics – Fi-Tech Booth 1005**

AstenJohnson joined the Fi-Tech team in late 2015. We are excited to have them as one of our latest principals and joining our stand in Boston. 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.

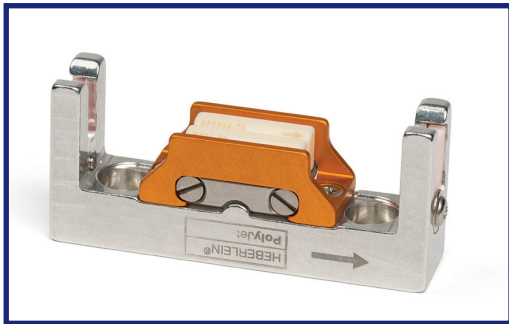
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In this edition of *In-Line with Fi-Tech*, we present our two newest principals AstenJohnson and Spoolex. We also have articles on new products from Galan and Heberlein. We look forward to seeing you at either the IDEA16 or Techtextil in May.

## Heberlein PolyJet 2 HP

In the field of textile spin draw, there has been an increase in the production of spin draw textile filaments with more interlaces per meter. There is a need for better yarn cohesion - as knitting and weaving processes get faster - and more interlaces provides a more stable yarn for the downstream process. Individual filaments are intermingled using a stream of compressed air. The resulting interlacing knots provide the required yarn compaction. This in turn leads to higher processing speeds, to an improved package build and reduced occurrence of broken filaments and yarn breaks in the downstream processes.



**Heberlein PolyJet 2**

Heberlein has introduced the PolyJet 2 HP line of textile interlacers. Compared to industry standards, the PolyJet 2 HP allows air interlacing with significantly reduced air consumption, yet a higher number of knots per linear meter. The jet is designed for all types of textile multifilament yarns.

The following are the benefits of the new jet design:

- Significant air savings over standard jets.
- Especially suited for microfilaments, fine yarns, normal, and coarse yarns.
- Higher number of interlaces compared to the current standard.
- Can be retrofitted on existing Heberlein jet housings.
- Fast and easy thread up.
- Easy maintenance.

Heberlein has always been the industry leader for interlacing jets. The new PolyJet 2 HP delivers the high performance expected from a Heberlein jet, but offers significant saving by reduced air consumption.

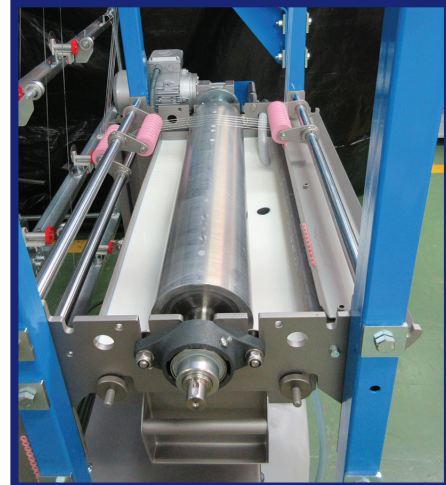
## Galan Textile Machinery

Galan recently introduced two new innovations for their product line. At the ITMA exhibit in Milan, Italy, they unveiled their new Fly Twister Model RTA500/2 and the Kiss Roll/Finish Roll Applicator KR750.

The Fly Twister takes twisting to the next level where the Ring Twister does not. This machine is able to handle yarns which require higher tensions and can produce yarns or ropes over 60,000 denier up to 150,000 denier. The new machinery has virtually no friction points which allow for a very gentle handling of the yarn. No traveler is needed.

### Kiss Roll Application

The Kiss Roll device is specially designed for overlay finish application onto yarns in a continuous in-line application.



The system is suitable for water-based chemical solutions. The system will allow to only lightly “kiss” the yarn to be treated or can also feed the yarn for a complete dipping through the tray.

We will be exhibiting this unit at the Tectextil in Atlanta, GA in May. We hope to see you there. [http://techtex-til-northamerica.us.messefrankfurt.com/atlanta/en/for\\_attendees/welcome.html](http://techtex-til-northamerica.us.messefrankfurt.com/atlanta/en/for_attendees/welcome.html)

## Techtextil North America 2016 - May 3-5

The 13th edition of the Techtextil North America, the only U.S. show dedicated to technical textiles and nonwovens, will be at the Georgia World Congress Center in Atlanta. In addition to the exhibition, a symposium will have sessions on the latest developments in technology, research, products, processes and industry trends.

Please visit us in Booth #3020 to learn about our portfolio of machines and products for fiber and nonwoven production. Our featured principals will include:

**Autefa Solutions Germany** – Balers and Bale Wrapping Systems

**Brazzoli S.p.A.** – High Temperature Jet Dyeing, Lab Scale Jet Dye Equipment

**Brückner Textiles Technologies** – Tenter Frames, Through Air Dryer Systems for Nonwovens – Hall B3, Stand 2046

**Cason Textile Machinery** – Bobbin Strippers: Manual, Semi Automatic, Fully Automatic

**Corina S.p.A.** – Hydro Extraction, Tubular Slitters, Web/Edge Guidance Systems, Padders

**DM&E** – Fiber Cutters, Tension Stands and Crimper Repairs

**Enka Tecnica** – Jet Strips, Die Tips, Spinnerets, Breaker Plates and Spin Packs for all applications

**Erbatech** – Open Width and Tubular Bleaching/Washing Ranges, Vacuum Extraction

**Saurer FibreVision** – On-Line Monitoring Systems, Sensors, Lab and At-Line Monitoring Systems

**filtertechnik.Europe** – Pack Filter Screens and Screen Changer Filters

**Galan Textile Machinery** – Ring Twisting Machinery, Winders, Creels – The PRM360/2 Twister & KR-750/2 Kiss Roll on Display

**Hastem** – Slat Transport Aprons for Nonwovens

**Heberlein** – Interlacing Jets, Air Texturing TexJets, Aspirators and Splicers

**KKA GmbH** – Coating, Print/Lacquering, Calendaring, Lamination, Embossing, Slitter/Rewinder

**Mahlo America** – On-Line Gauging Systems for Nonwovens

Continued on Page 6

## 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

### **FibreVision - United Kingdom**

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

### **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

### **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

### **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 Plants

### **TEMCO - Germany**

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

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

Induction Heated Rolls®

### **Trützschler Man-Made Fibers - Germany**

Staple Fiber Lines, Crimpers, Draw Lines, Carbon Fiber Production Lines

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

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





## Calemard® Slitting and Spooling Lines for Tension-Sensitive Materials

For 60 years Calemard®, the machinery division of Spoolex, has been providing unwinding, slitting, spooling, and rewinding solutions to various industries world-wide.

In 1998, based on its 10 year experience and having delivered 70 slitting and spooling lines, Calemard® presented its first Pegase jumbo spooling line specifically designed to respond to the needs of Air-Through-Bonded nonwoven producers. Today, with more than 200 spooling heads delivered worldwide, the Pegase is recognized as the world leader with its proven, reliable and efficient solutions for spooling sensitive nonwovens.

### Jumbo spools help increase productivity of baby diaper and femcare converting lines:

Strip delivered as jumbo spools (up to 1200 mm diameter and 850 mm wide) is in average 10 times longer than as slit reels, or “pancake” rolls. This reduces both product waste and production labor cost.

Calemard’s proprietary technology allows production speeds of 600 m/min with no adverse effect on the material properties, i.e., no stress, no tension, no elongation, and no twist. This allows maximum efficiency of downstream operations.

The Pegase line of spooling equipment has been recently expanded. In addition to the semi-automatic Pegase II, the higher-capacity Pegase 3 was successfully presented to the market. The Pegase 3 accepts larger parent rolls (up to 2000 mm diameter and 1000 mm wide) and offers fully automatic handling of the parent rolls and spooled rolls.



**Pegase 3 Spooling Equipment**

## AstenJohnson Advanced Fabrics

AstenJohnson is a global supplier of woven belts for the nonwovens industry with a dedicated team of experts in Valleyfield, QC to provide you with solutions for all of your web processing needs. They have a full line of high performance Forming, Drying, Conveying, Dewatering and Bonding fabrics. Forming wires offer considerable advantages in cleaning and are the easiest to pin with our MonoZip and Twinpin seam technology. AstenJohnson also offers metal fabrics and wires for honeycomb air diffusers. AstenJohnson’s extensive product portfolio includes fabrics for Spunbond/Meltblown/SMS applications as well as in Airlaid, Hydroentangled and Carded Nonwoven Applications.

In late 2015, AstenJohnson and Fi-Tech joined forces to supply the North American market with high quality belts for the nonwoven industry. One of AstenJohnson’s flagships is the WebTec N12-C. This high performance fabric is designed for spunbond machines with the lightest web weights and highest machine speeds. Its unique and patented surface construction with Smart Surface Technology™ offers high surface density to support the web without fiber entrapment. The unique yarn topography on the surface of this belt results in better contaminant release and improved polymer spot cleaning. Its smooth profile reduces boundary air movement for better web stability and is permeable enough for good web lay down as well as excellent release at the nose roll. The Twinpin seam is one of the easiest to join on the market today. The seam’s permeability and caliper uniformity prevent seam marking and compaction roll jump. All of this makes it the perfect choice for high speed spunbond machines.

We look forward to working with you for all your web processing needs.

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An 8-head Pegase 3 slitting and spooling line complete with automatic roll handling and packing as shown in the illustration is scheduled to start up the end of this year.

If you intend to slit and spool or rewind your nonwoven, film, laminated material or other tension-sensitive material, trust Calemard® to support you on your project.

Continued from Page 1

## **Brückner Textile Technologies – Fi-Tech Booth 1005**

Returning to IDEA16, Brückner is your systems partner for the finishing of technical textiles, carpet, glass fabric, foils and nonwoven fabrics. We have all suitable technologies for coating, drying, and finishing of nonwovens. Brückner's strong reputation in technical textiles has helped give them access to the Nonwoven Industry. Come meet with our experts to discuss your finishing and bonding needs.

## **Enka Tecnica GmbH – Fi-Tech Booth 1005**

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. In addition, Enka offers a complete refurbishment/refresh service through facilities in Richmond, VA and Germany. Talk to them to see how you can benefit from their expertise.

## **Reifenhäuser REICOFIL® GmbH – Booth 1001**

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 1005**

As experts in nonwoven spooling technology, Spoolex/Calemard selected Fi-Tech to represent them in North America in 2015. 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.

Continued on Page 6

## **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

### **Hastem Transportbänder GmbH - Germany**

Slat Aprons, Spiked/Needle Apron, 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 System, Auxiliary Cleaning Equipment

### **Mahlo America, Inc. - USA**

On Line Monitoring Systems for: Basis Weight, Coat Weight, Thickness, Moisture

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

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

### **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

### **TEMCO - Germany**

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

### **UNGRICHT Roller + Engraving Technology® - Germany**

Calender Engraved & Smooth Rollers, Embossing Rollers, Engraved & Smooth Chill Rolls, Heated Non Stick Press Rolls, and Ultrasonic Anvils

### **WISTA GmbH - Germany**

Punch Perforating Machines, Commission Perforating Services

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

Promik Spinneret Inspection Devices, Pocket Microscopes

Continued From Page 5

## **Schill+Seilacher GmbH – Fi-Tech Booth 1005**

Schill+Seilacher is the world's largest supplier of technical finishes for the Nonwoven Industry. Every given 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.

## **Ungricht Roller + Engraving Technology – Booth 1005**

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.

Continued From Page 3

**Mario Crosta S.p.A.** – Drum Raising/Napping, Sueding, Shearing, Lamination

**MOVEngineering Srl** – Hypox Spinneret and Pack Cleaning Units and Polymer Filter Systems

**Mozart** – Fiber Cutting Blades and Slitting Blades

**Reifenhauser REICOFIL** – Spunbond and Composite Nonwoven Systems

**Schill + Seilacher** – Fiber Finishes and Nonwoven Surfactants

**Sikoplast** – Fiber and Nonwoven Recycling Systems

**Saurer TEMCO** – PU Discs, Separator Rollers, BCF Jets, Arbors for Covering Machinery – ICBT/RPR

**Technip Zimmer GmbH** – Complete Engineering for Staple fiber and Filament Plants, Plants for Engineered Plastics, Polymerization and Solid State Polycondensation Plants

**Tecnorama S.R.L.** – Automatic Dispensing for Textiles  
Located on ACIMIT Stand

**Tokuden** – Induction Heated Godet and Drying Rolls for Fiber and Film Processes

**UNGRICHT Roller + Engraving Technology** – Heated, Cooled and Engraved Rolls for Nonwovens

## **Need Foreign Parts?**

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## **For 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.**

**TECNORAMA**



Fi-Tech is pleased to announce that we are partnering with Tecnorama S.R.L. of Prato, Italy, to bring their cutting edge technology to our textile division.

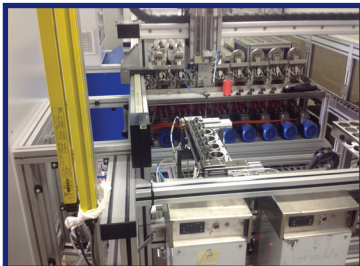
For over 30 years, Tecnorama has been one of the world's leaders in the development and production of machinery for the automatic dispensing of liquid and solid dyestuffs and chemicals in both laboratory and bulk production applications.

The Dosarama® range of products (V,W,WS and HS) have served the laboratory dispensing sector for many years and the ongoing investment has developed



**Tecnorama Headquarters**

fully automated, high speed options, capable of dispensing more than 200 recipes/hour. The DOS and DYE® brand, offers full automation and can be combined with robot controlled dyeing machines for a wide range of textile substrates, such as yarn, flock, and all fabric constructions.



**Shakerama**

SHAKERAMA is a new system for dyeing laboratory samples, designed and produced by Tecnorama to complete its range of automatic



**IDROSISTEM**  
ENERGY

Fi-Tech has been working with Idrosistem for approximately 17 years, primarily in the nonwoven sector. As our textile division continues to expand, we will promote the benefits of working with Idrosistem on treatment of both incoming and discharge waste water flows to our textile customers.

Idrosistem offers in many cases, patented and cost effective solutions to many of the issues experienced by our customers, both from a regulatory and a sustainability point of view.

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dyeing machines forming part of the DOS&DYE COMPACT system.

This machine is particularly suitable for dyeing knitwear and fabric made of all type fibers: natural, artificial and synthetic. SHAKERAMA is conceived to work with groups of more autoclaves carrying out simultaneously dyeing cycles with different recipes but using the same dyeing program.

Tecnorama also offers full concept design and customization of their bulk powder and liquid chemical dispensing systems via Dosarama® products LS and LP for differing degrees of accuracy for powders, and MP and MV for liquids. The aptly named MVP, offers a high degree of accuracy (+/- 0.1cc) for bulk liquid dispensing.

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

### **Brückner Textile Technologies GmbH & Co.KG - Germany**

Tenter Fames, Thru Air Dryers, Compactors, RelaxDryers, Coating Systems, Heat Recovery and Air Purification

### **Brazzoli S.p.A. - Italy**

High Temperature Jet Dyeing, Lab Scale Jet Dye Equipment

### **Mario Crosta S.r.l. - Italy**

Single/Double Drum Raising/Napping, Sueding, Shearing, Lamination

### **Corino S.p.A. - Italy**

Hydro Extraction, Rope Openers, De 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

### **Irosistem Srl - Italy**

Water Treatment and Recovery Plants for Textiles

### **KKA GmbH - Germany**

Coating, Printing/Lacquering, Calendaring, Laminating, Embossing, Slitter/Re-Winders

### **Tecnorama S.R.L.**

Automatic Dispensing for Textiles



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## EVENTS CALENDAR

### IDEA 2016

May 3-5, 2016  
Boston, MA  
[www.inda.org](http://www.inda.org)

### Techtextil North America

May 3-5, 2016  
Atlanta, GA  
[www.techtextilna.com](http://www.techtextilna.com)

### World of Wipes

June 7 -10, 2016  
Chicago, IL  
[www.inda.org](http://www.inda.org)

### OUTLOOK 2016

Madrid, Spain  
September 21-23, 2016  
[www.edana.org](http://www.edana.org)

### Hygienix 2016

October 24-27, 2016  
Orlando, FL  
[www.inda.org](http://www.inda.org)

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### Contact Information:

[www.fi-tech.com](http://www.fi-tech.com) • [www.euro-spares.com](http://www.euro-spares.com)  
[Sales@fi-tech.com](mailto:Sales@fi-tech.com) • [sales@euro-spares.com](mailto:sales@euro-spares.com)  
[www-fi-tech.com](http://www-fi-tech.com)

Phone: +1 (804) 794-9615 • Fax: +1 (804) 794-9514

### Latin America Office

Phone: (52)(444)8 13-0865 • Fax: (52)(444)813-2562