

Spring 2017

In-Line with **fi-tech**

A Publication for Synthetic Fibers, Nonwovens and Textile Producers

Fi-Tech, Inc. 2400 Pari Way, Midlothian, VA 23112-3858 • 804.794.9615 • Fax 804.794.9514 • e-mail: sales@fi-tech.com • www.fi-tech.com



Todd Bassett

Manufacturing is integral to a healthy, growing economy. Manufacturing wages support families. Recent economic research reports that each manufacturing job in the US supports another 3.4 jobs in the US economy. Industrial R&D drives innovation in this country. So, it is encouraging to see that our country's leadership is talking about the importance of manufacturing again after having been out of the public focus. An important part of that discussion should be education and training of the work force. To have a vibrant manufacturing economy we need a well-trained and skilled labor force. For too long vocational and technical schools have been underfunded and stigmatized. These schools, in partnership with industry, can supply the skilled labor required for a dynamic and growing manufacturing economy. Germany provides an excellent example of vocational/technical training for its students in cooperation with industry where student internships (Praktikum) lead to real experience and good jobs after completion of their education. Too often I hear from my customers that there is a shortage of qualified operators for their plants. How can we learn from Germany and re-emphasize a strong vocational/technical career path in our secondary education and community college systems?

At Fi-Tech, we are busy preparing for a full slate of exhibitions and conferences this spring for the Nonwovens, Fibers, and Textile Industries. The most significant exhibition for the Nonwovens Industry will take place in Geneva, Switzerland, April 4-7. You will find in this newsletter further information on this

INDEX 17 – Geneva, Switzerland April 4-7, 2017

The following companies represented by Fi-Tech will be exhibiting:

AstenJohnson Advanced Fabrics – Booth No. 1154

AstenJohnson is a global supplier of woven wire belts for the nonwovens industry. The belts are used for forming, drying, conveying, dewatering and bonding of all types of nonwoven fabrics; including spunbond, meltblown, SMS, airlaid, hydroentangled and carded nonwovens.

Autefa Solutions Germany – Booth No. 4035

Being a market leader of hydraulic bale presses and automatic fiber logistics, Autefa Solutions continues to increase the efficiency and improve the quality of fiber packing. The transfer fork UNI-FORK together with the wrapping machine AD-WRAP reduce labor costs and provide high process uptime with a short pay-back period.

Continued on Page 4

show and our principals who are exhibiting. Also, in the newsletter is information on the TechTextil Show in Frankfurt, Germany, May 9-12. This show is important to the technical textiles and fibers industries and is held every 3 years. Fi-Tech will be sending representatives to each of these important exhibitions. For the Wipes Industry, don't forget the important World of Wipes Conference held in Nashville, TN, June 12-15. We hope you enjoy this issue of *In-Line with Fi-Tech* and look forward to seeing you at a coming exhibition, conference, or plant visit. As always, don't forget to connect with us on our newly updated website www.fi-tech.com to get additional details on our principals and their products.

TechTextil Frankfurt

The TechTextil Frankfurt will take place May 9 to 12, 2017 at Messe Frankfurt. This event is a leading international expo featuring fibers, technical textiles and nonwovens all in one expo. The show features not only suppliers of machines, components and manufacturing solutions, but also raw materials and the end producers of technical textiles and specialty nonwoven fabrics showing the full range of potential uses of modern textile technologies. This event, held every three years in Frankfurt, Germany, is a great opportunity to network with all aspects of the industry. Fi-Tech is pleased to highlight the following principals from our fibers, nonwoven and textiles portfolio who will participate in this year's show. We hope you have the opportunity to join our Fi-Tech Team (Todd Bassett, Ian Mills, and Randy Wise) in Frankfurt.

Autefa Solutions GmbH – Hall 3/H33

Autefa will show its complete range of staple fiber conveying, baling, wrapping, strapping and handling systems for low throughput to ultra-high capacity automatic systems.

Brückner GmbH – Hall 3/F29

Brückner is well known for the complete range of fabric finishing technologies including Tenter/Stenter Frames, Relax Dryers, Coating Lines, Padders, Finishing Line and Nonwoven Bonding Ovens. Come meet the experts from Brückner to see the latest advanced solutions for technical textiles and nonwovens.

Enka Tecnica GmbH – Hall 3/A26

Enka Tecnica is the global leader in spinneret technology with expertise in all aspects in spinneret production including filament, BCF, FDY, and staple fibers as well as spunbond spinnerets and meltblown die tip. Enka also excels in the production of hydroentangling jet strips for spunlace production.

Galan Textile Machinery, S.L. – Hall 3/G25

Based near Barcelona, Spain, Galan is well known for its range of heavy ring and 2x1 twisting machines as well as associated winders. Galan will exhibit its twisting capabilities along with the latest developments in yarn coating and rewinding systems.

Heberlein AG – Hall 3 /D02

Based in Wattwil, Switzerland, Heberlein is the global leader in fiber jets for air interlacing, texturing, covering, migration, detorque as well as fiber aspiration and splicing solutions.

Mayer & Cie – Hall 3/A06

Experts in circular knitting technology, Mayer & Cie will be participating in TechTextil to showcase their latest solutions for all aspects of circular knitting technology.

Mozart AG – Hall 3/A82

The experts from Mozart located in nearby Solingen, Germany, will be in Frankfurt to help solve all your fiber cutting and fabric slitting needs. Any place where you need a sharp high quality blade, Mozart has the complete solution including blade holders and handles.

Schill+Seilacher GmbH – Hall 3/B59

The Schill+Seilacher team will be in Frankfurt to present the latest developments in fiber spin finishes, nonwoven surfactants and specialty chemical treatments for technical textiles.

Ungricht Engraving + Roller Technology GmbH – Hall3/C08

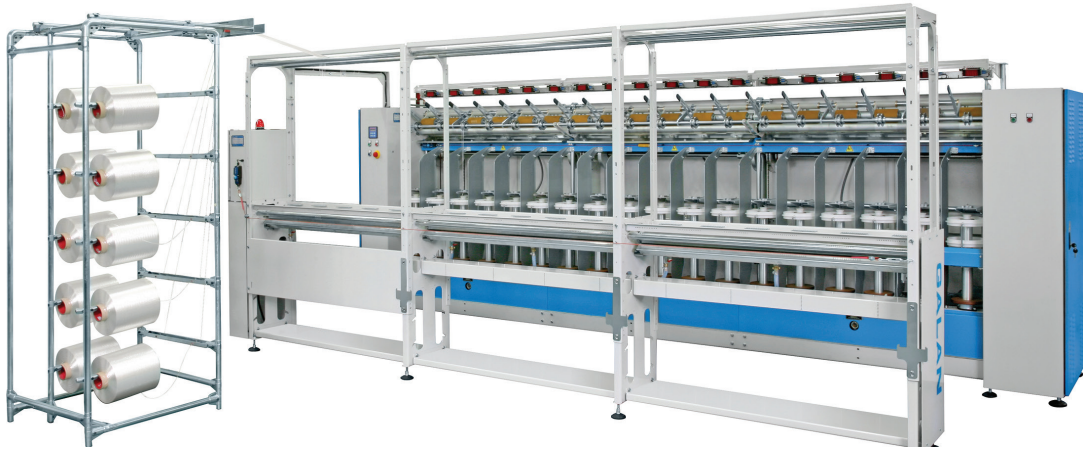
The Ungricht name is synonymous with high quality engraved and smooth roll production for a variety of nonwoven applications. Ungricht's inventory of patterns and engraving technology is unmatched in the industry today.

Galan Textile Machinery

Galan recently introduced their Kiss Roll Device for Overlay Finish 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.

The system can be designed so that it can be synchronized with the controls of a twisting machine or can be independently controlled to run “in-line” with any machine. A mechanically adjustable potentiometer allows for quick and precise adjustment of parameters.

The system is a modular design so we can custom fit your length requirement utilizing a master/slave design and can be installed in front of any machinery adding value to your twisted yarns or final product.



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®

Zentes Unitex GmbH - Germany

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

Continued from Page 1

Brückner Textile Technologies – Booth No. 1580

Brückner is a leading producer of finishing and thermal treatment lines and dryers for the nonwovens industry. At this year's INDEX, Brückner will present 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 – Booth No. 2638

In addition to precision spinnerets, hydroentanglement jet strips, melt blowing die tips and long rectangular spinnerets, Enka Tecnica will be promoting its new cost-effective SMART melt blowing die and its spinneret inspection system for long rectangular plates using video software with image analysis.

Mahlo – Booth No. 4229

Mahlo offers online monitoring systems for basis weight, coating weight, thickness, and moisture level.

Reifenhäuser Reicofil – Booth No. 2531

Reifenhäuser Reicofil will present their latest advances in technology for the production of spunbond, meltblown and composite fabrics. Meet with representatives of Reicofil to take a look into the future of nonwovens and discuss the future standards of fabric quality, uptime, output, energy efficiency, and machine intelligence. Reicofil will share its booth with film experts from Reifenhäuser's cast film and blown film company.

Schill+Seilacher – Booth No. 1370

Schill+Seilacher is known worldwide with a long tradition since 1877. Its finishes meet the demands of the hygiene and medical industry for a wide range of polymers such as polyolefin, polyester, PLA or bico for nonwovens and staple

fiber. These finishes provide durable hydrophilic or hydrophobic properties and allow a soft and dry touch to the nonwovens.

Spoolex – Booth No. 2451

With more than 200 Pegase spooling heads delivered worldwide, Spoolex is recognized as the world leader for spooling tension-sensitive nonwovens and film. In addition to the Pegase jumbo spooling line, Spoolex will be promoting its "Smart Manufacturing" cell which combines automatic roll handling of mother rolls and complete packing, weighing and labelling of the spooled rolls together with its Pegase spooling line.

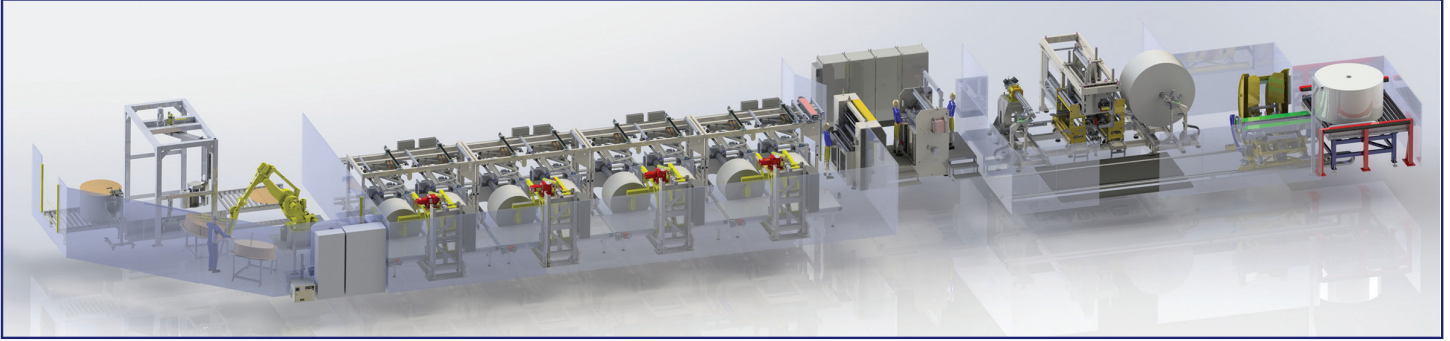
Temco Bearings – Booth No. 4336

Temco is a manufacturer of roller bearings with many years of experience with special high-speed, low-inertia bearings. Temco bearings and rollers are used for the guiding of film and lightweight nonwovens at high speed. They are most frequently used on high-speed, hygiene converting lines, such as for producing diapers. Temco bearings and rollers are characterized by low weight, low starting torque, very low bearing friction, smooth running, and low vibration at high speeds.

Ungricht Roller + Engraving Technology – Booth 1541

Now part of Matthews International, Ungricht offers all type of rolls for all known spunmelt and staple fiber nonwoven processes. This includes engraved and smooth calender rolls, embossing rolls, ultrasonic anvil rolls, heating and cooling rolls, and application rolls. Ungricht's strength is in the design and development of new web surface structures. Ungricht also offers roll repair and grinding services.

Spoolex/Calemard Pegase 3 Spooling Lines



In highly sensitive nonwovens converting operations, such as ADL, the user needs to unwind slit strips of fabric in much smaller widths than the original secondary master roll. In the past, this has been managed by slitting and rewinding the material onto individual “pancakes” - that are ultimately unwound on the end user’s converting machinery. This method is inefficient, since it requires significant effort on the front end to make the pancake rolls and then frequent replacement of the pancakes on the converting machinery – meaning possible operator

error, downtime, and inefficiency from constant pancake switch outs.

Spoolex/Calemard is involved in the engineering and production of equipment that converts many secondary rolls of web formed fabrics into large jumbo spools of slit material. These jumbo spools of material can be used by converters interested in longer periods of time between roll changes, better quality, higher efficiency, and less down time.

With the widest high speed spooling lines for ADL

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 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

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

Tokuden Co., Ltd. - Japan

Induction Heated Rolls®

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



Pegase 3 Spooling Cell

in the world (mother roll width up to 1.5 m) and a fully automated Pegase 3 Spooling Cell commissioned end of 2016, Spooler Group confirms the world leading position of its Calemar® machinery brand in providing customized spooling solutions for demanding production with tension sensitive materials.

Even more than in the past, the French company assists its customers to move in the “Smart Manufacturing” era. To help them to bring their production tools up-to-date and to improve safety and healthy working conditions, Spooler’s integrated engineering department is always developing automated solutions around its know-how, to propose global offers with flexible machinery and smart automation.

Productivity of the Pegase 3 is performed by the following: top speed of 600 meters per minute, dual shaft unwinder, touchscreen operator panel with recipe storage, VPN allowing remote troubleshooting, simultaneous spool unloading, trim extraction, dust extraction, and data collection. The following are important key productivity design aspects of the Pegase 3:

- Automatic mother roll loading with conveyor and automatic loader for mother rolls up to Ø 2m - 500kg.

- Automatic ultrasonic butt-to-butt splicing module with a line stoppage time down to 20 sec. and a faster and more ergonomic manual web positioning.
- A 3-step automatic jumbo spool unloading solution with automatic strip cutting, spool unloading, reclaiming and transfer to the packing cell.
- Complete packing cell for individual spool weighing, wrapping and labeling.

The quality of the spooled material is assured by straight and driven strip conveying, super low winding tension, high precision guiding system, and self-traversing spoolers.

Finally, in order to meet customer requirements for data driven solutions, Spooler offers multi-level DataSmart solutions for production performance analysis and production traceability. After collecting data directly from the line PLC (for reliability and speed), DataSmart can be customized as different packages adapted to each customer’s needs: From simple data collection to complete extraction, evaluations, indicators calculation and customized reporting.

Spooler has the solution for your spooling needs. Please contact Fi-Tech for more information.

Textiles/Technical Textiles

The New Ecologic Plus from Brazzoli



Brazzoli has recently brought to market the newest generation of jet dyeing equipment, The Ecologic Plus, with the following innovative design features:

- New Optimized Performance System (OPS) ensuring improved liquor re circulation control.
- Improved fabric transport handling system to allow for increased reel speeds, but also avoiding pilling and creasing in delicate fabrics.
- Re-engineered drive system, bearings and seals for fabric reels assuring improved reliability.

- Re-designed liquor circulation system to improve access during cleaning therefore improving efficiency and protection of the circulation pump.
- Now available, new materials and profiles on the reel strips allowing greater flexibility in choosing the correct design for specific fabrics.
- Lean methodology utilized to re-engineer the reel strip replacement process guaranteeing the fastest change out procedure. This can also be retrofitted to existing Brazzoli machines.

For further information on any of the above , please contact Ian Mills at imills@fi-tech.com or (434) 825-7843.

**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.**

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

Brazzoli S.p.A. - Italy

High Temperature Jet Dyeing, Lab Scale Jet Dye Equipment

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, 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, Roto-Gravure, Printing/Lacquering, Calendering, Laminating, Embossing, Slitter/Re-Winders

Mario Crosta S.r.l. - Italy

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

Pindarus S.r.l. - Italy

Raising Fillet Wire, Cleaning Brush Wire, Felt and Rubber Backing

Tecnorama S.R.L.

Automatic Powder and Liquid Dye stuff Dispensing, Bulk and Lab Scale Systems



PRST STD
U.S. Postage
Paid
Permit #729
Richmond, VA

Change service requested

POSTMASTER: Please send address changes to:
In-Line with Fi-Tech, Inc.
2400 Pari Way, Midlothian, VA 23112-3858

EVENTS CALENDAR

Outlook Plus Latin America

March 7-9, 2017
São Paulo, Brazil
www.edana.org

INDEX 2017

April 4-7, 2017
Geneva, Switzerland
www.index17.org

Techtextile

May 9-12, 2017
Frankfurt, Germany
www.techtextil.com

World of Wipes 2017

June 12-15, 2017
Nashville, TN
www.inda.org

RISE 2017

September 12-14, 2017
Raleigh, NC
www.inda.org

Hygienix 2017

November 6-9, 2017
Austin, TX
www.inda.org

Fi-Tech is a Registered Service Mark

In-Line with Fi-Tech, a Fi-Tech, Inc. publication, is designed to assist Engineering, Management, Purchasing and Plant Personnel by providing an avenue of communication between fiber producers and the best machinery manufacturers in the world. Fi-Tech, Inc. is the premiere representative for Nonwovens, Synthetic Fiber, and Textile machinery and components.

Fi-Tech, Inc. Editorial Board

Jeffrey G. Bassett, Todd L. Bassett, Christopher G. Layton, Jon A. Schmidt, D. Keith Wise, W. Randy Wise, Vicky Gant Wilson, Don B. Gillespie, Ian Mills, Brian W. Williamson.
Copyright 2017 All of this information is copyrighted. Readers may use any of the articles presented if original source is cited. Prior issues of In-Line with Fi-Tech may be found at www.fi-tech.com

Contact Information:

www.fi-tech.com • sales@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