

Fall 2019

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

A Publication for Synthetic Fibers, Nonwovens and Textile Producers

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**Jeff Bassett**

Welcome to our fall 2019 issue of *In-Line with Fi-Tech*. 2019 seems to be going by with a blink of the eye. It has been an extremely busy year thus far from an exhibition perspective with IDEA2019, TechTextil Frankfurt and ITMA in Barcelona all before the end of June. It has been great to have had these shows to meet with both our customers as well as our principals. This energizes our

activities with customers bringing new projects to light and our principals launching new developments as well. As we approach the fall and “conference” season, we have significant follow up work as well as the key conference events, RISE and Hygienix. Lastly, we have the last of our major exhibitions in October, the K2019, the largest international plastics exhibition. We look forward to making further contacts with you at these events as well as through our routine visits.

I would like to take this chance to recognize Don Gillespie who officially retired from Fi-Tech on June 30 after 15 ½ years of service. I have known Don long before he joined our team in 2004 in his former capacity as head of Fleissner, Inc. in Charlotte, NC. It has been an honor to have Don on our team as his industry knowledge, ethical standards and



**Don and Dianne Gillespie**

commitment to customers and principals is to be admired. Don served our country in the Air Force for 8 years before a 25 year stint at John D. Hollingsworth on Wheels. He then lead Fleissner, Inc. for 13 ½ years before joining Fi-Tech. So, combined this represents 62 years. Don has made significant contributions to the fibers and nonwoven industries throughout his career. He is a dedicated family man and is one of the most honorable and trustworthy men I have known. I wish Don and his lovely wife, Dianne, all the best in the years to come.

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## **K-Show Dusseldorf, Germany October 16-23, 2019**



This fall brings again the tri-annual K-Show to Dusseldorf, Germany, October 16-23, 2019. The K is the largest trade show in the world related to the plastics industry, drawing over 3,200 exhibitors from 61 countries representing the complete plastics industry supply chain. Fi-Tech will have representatives in attendance from our Richmond, Mexico, and UK offices to support our customers visiting the 11 principals we have exhibiting at the show. For help booking your hotel rooms or for tickets, please go to the official K website, [www.k-online.com](http://www.k-online.com). Fi-Tech hopes to see you there. Following is a brief review of our principals who will be exhibiting at the K this year:

### **Galan Textile Machinery, S.L. – Hall 3, Booth D33**

Galan is a leader in the design, development and manufacturing of spinning, twisting and winding machinery of all types of natural and synthetic fibers. Galan will have several machines on hand demonstrating their capabilities.

### **Herrmann Ultrasonics – Hall 11, Booth E26**

Herrmann is the Recognized Technology Leader in ultrasonic welding machines, generators and sonotrodes. Herrmann will have on display various ultrasonic bonding equipment for the plastics, nonwovens and packaging industries.

### **August Herzog GmbH – Hall 3, Booth G62**

Herzog is the world's leading manufacturer of braiding machines and winding equipment. Herzog

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## Textile Components

During the recent ITMA Exhibition in Barcelona, Spain several new offerings were announced by Saurer Temco, Saurer Fibrevision, and Heberlein AG. Our manufacturers constantly strive to improve the capabilities of the components they make, and these are no exception.



### Heberlein AirSplicer – POY

Heberlein AG has released the AirSplicer POY, which has been developed to improve the transfer efficiency of POY yarns in creel operations. Typically, when one bobbin runs low, an operator ties the yarn of the finishing bobbin to the starting yarn of the new bobbin. This has been done for years with hand

held splicing units. The advantage of the new AirSplicer POY is a more compact design, significantly lighter weight, an integrated, automatic splicing function that guarantees reproducibility, and higher transfer rates. The different air chambers can handle denier ranges from 20-450 denier POY. Another distinct advantage is a more competitive price.

### Heberlein Lufan HS12 – 3TP

Heberlein AG continues to develop their line of powerful and air efficient string up guns or aspirators. The new Lufan HS12-3TP is the latest generation of aspirator for high speed processes. It is built to have even higher suction power at the same air pressure. With sufficient suction power, the compressed air network can be operated at lower pressure, offering cost savings. The Lufan HS12-3TP can handle yarn speeds up to 8,000 m/minute and can handle a maximum of 20,000 dtex yarn. The Lufan is ergonomic, easy to handle, and has an unbreakable valve. If you are having difficulty maintaining tension while stringing up filament, this Lufan may be the answer for your process.

► Welcome cont...



In addition to Don's milestone, 2019 is a year of numerous significant service milestones for members of the Fi-Tech Team. Paul Lawhorne, Todd Bassett and myself all reached 30 years of service this year. Chris Layton reached his 25th anniversary with Julie Thompson and Alfonso Galan surpassing 20 years and Ian Mills 5 years. The longevity of each of these greatly enhances our ability to serve our customers and principals. I congratulate each of you and appreciate the talents and dedication you bring to the table.

*Group photo: Jeff Bassett, Chris Layton, Todd Bassett, Paul Lawhorne (seated)*



### Saurer Fibrevision Microscan 2

For years, the FX110 Microscan handheld data analysis unit has been the instrument of choice for at line quality measurements. The new Microscan 2 continues this with

updated design and control. It is an ultra-portable, battery powered at line unit designed to measure spin finish and interlace. Features and benefits include:

- Upgraded spin finish and interlace probes equipped with Wifi communication
- Status display via OLED
- Hand held tablets to control probes
- Spin finish sampling frequency 1KHz and interlace sampling frequency 50 KHz
- 16 GB storage
- Rechargeable batteries that last 6 hours of continuous operation

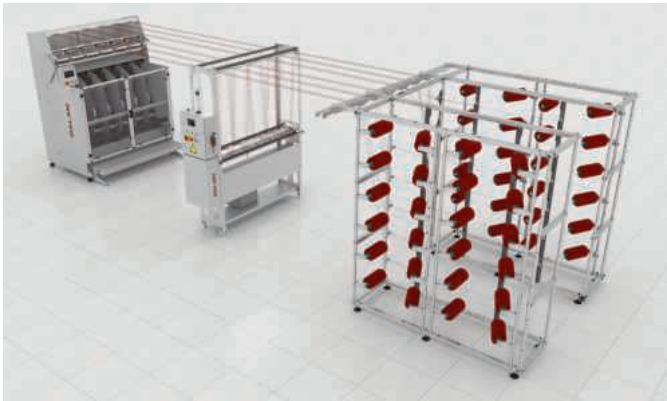
Using the Microscan 2 can help you detect short term faults in your filament processing and take corrective action.

### Saurer Temco CoolFlow Texturing Discs

Saurer Temco has released its next generation texturing discs. The new geometric structure results in improved heat transfer efficiency which in turn results in lower disc temperature. This brings longer lifetime for the discs and that means lower processing costs. Lateral grinding gives the disc improved geometric stability and this precision allows a more constant distance between discs. The discs have reduced swelling which result in a lower machine CV value over the lifetime of the discs. The discs also have improved resistance against spin finish. These improvements combine to provide for more stable yarn quality, higher dyeing uniformity, and more physically stable yarn characteristics.

**Galan Textile Machinery** now has an Installation for overlay finish application into yarns to help Rope Manufacturers ADD VALUE TO THEIR ROPES, consisting of:

- Ring Twister model MULTI 1x6 SP
- Kiss-Roll model KR1500M
- Creel model E320/24 for 24 ply



**RING TWISTERS** Modular, Monoblock or long frame machines for a wide range of yarn counts and

applications, with rings from 100 up to 400 mm. GPS (GALAN Patent System), direct-motor or belt transmission.

**KISS-ROLL** Device specially designed for overlay finish application into yarns. It allows operating in a continuous in-line process with a twisting or winding machine. It protects the yarn throughout the production process to avoid fiber damage. Suitable for water-based chemical solutions.

**CREELS** Modular design that allows quick and easy modification and adaptation to different possible requirements.

**WINDERS** Galan also supplies Parallel and Universal Semi-automatic precision winders are the perfect complement to the range of GALAN twisters. Easy changing of traverse. For the winding of yarns, twines, cords and tapes of non-twisted, twisted or braided raffia, jute, sisal cotton, multifilament and monofilaments.

Give us a call and we can supply you with our latest informational specification sheets.

## 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 Twistors, Heavy Duty Twistors, Specialty Twistors

### **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 Components GmbH - 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

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

Induction Heated Rolls®

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

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

### **Zimmer Polymer Technologies - Germany**

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

## AstenJohnson Advanced Fabrics



September 1, begins the 4th year Fi-Tech has been working with AstenJohnson in the Nonwovens Industry and we thought it appropriate to highlight their Valleyfield, Quebec manufacturing site.

The AstenJohnson Advanced Fabrics division started manufacturing forming belts for the nonwovens industry at their Montreal Plant in 2004. (They added forming belt manufacturing for nonwovens at their Eupen, Belgium facility in 2012). After an investment of \$6 million in equipment and building upgrades, AstenJohnson consolidated their North American Advanced Fabrics manufacturing in the Valleyfield, Quebec site. Today the Valleyfield site employs 120 people in a 100,000 square foot manufacturing facility producing belts for nonwovens and other technical applications for the Advanced Fabrics division. The site has a Lean Guardian team of six people, who, in addition to their daily responsibilities, focus on projects to improve quality, improve productivity and wring cost from the manufacturing process. This site is producing the key fabrics for spunbond and SMS production, carding, airlaid, chemical bond and through

air bond processes. Some of the key products produced in Valleyfield include the WebMaster N16C, WebMaster N20C, WebMaster N1338C, WebTec N12C, WebMaster N860C and WebMaster N860C-GWS.

From a strategic perspective, AstenJohnson sees strong growth potential for the business in North America and believes that having a strong North American manufacturing platform to support their customers is key to their growth strategy. In the last few years, AstenJohnson has made significant capital investments in the Valleyfield site in weaving looms, seam press equipment, and auto seaming equipment to increase productivity, reduce cost and lead times and maintain product quality at the highest level. Through their continued investments in people and equipment in Valleyfield, AstenJohnson has built a solid foundation to grow their business and provide the best possible products to their customers.

## Enka Tecnica Melt Blown Smart Spin Beams

As pioneers of precision spinnerets, dies and melt blown die tips dating back to 1910, Enka Tecnica has used this collective expertise and state of the art manufacturing technology to produce complete melt blown spin beam assemblies for hygiene, filtration and absorbent melt blown nonwoven production. Enka Tecnica delivers a completely vendor-neutral individual component based on their extensive knowledge and configured to the end customer's system.

The Enka Tecnica Melt Blown Smart Dies are designed specifically for the requirements of the user. They have developed simpler, user-friendly functions such as cassette assembly, allowing faster and easier settings. Fewer steps means more time for other processes resulting in greater efficiency. The MB Smart dies have longer cycle times meaning longer times between die tip exchanges, a more stable die tip geometry resulting in a lower risk of mechanical damage, and shorter change over times due to the fixed settings for air gap and set back. In addition to these key features, MB Smart dies have highly uniform air gaps for better process air distribution resulting in cross directional uniformity, and they are more energy efficient than older designs due to efficient heating elements and optimum insulation.



For Enka Tecnica, productivity means delivering exactly what the customer needs. Technical parameters such as the working width, hole density (hpi), capillary diameter and capillary length, Air Gap and Setback are all highly flexible.

For additional information visit [www.enkatecnica.com](http://www.enkatecnica.com).

## 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

## ■ K-Show cont...

has shown its competence in braiding and winding since 1861 based in Oldenburg in Northern Germany.

### **KKA GmbH – Hall 3, Booth D05**

KKA will be on hand with a team of experts promoting their extensive experience in coating, printing/lacquering, calendaring, laminating, embossing, slitting/rewinding systems and equipment.

### **MOVEngineering Srl – Hall 9, Booth E65**

The experts from MOVE will promote their proven Hypox® Cleaning Systems and Hypox® Filters. The Hypox® uses super-heated steam to clean parts contaminated with polymer.

### **MOZART AG – Hall 11, Booth F59**

MOZART AG was founded in Solingen, Germany in 1923. Over the years the company has developed into one of the world's leading producers of technical blades thanks to the high quality of its extensive range of blades for cutting foils, films and deburring plastics.

### **Reifenhäuser Group – Hall 17, Booth C22**

The Reifenhäuser Group of companies including Reicofil®, Reifenhäuser Extrusion Systems and Reifenhäuser Blown and Cast Film will show their extensive range of spunbond/meltblown nonwoven systems, extrusion dies, blown and cast film systems for a wide variety of applications. The massive Reifenhäuser stand is always a hub of activity at K. An open house expo will be held in their Troisdorf facility on October 17, 21 and 22 where a complete range of machines can be seen in operation.

Based in Zanica, in Northern Italy, Testa has been producing customized textile finishing machinery focusing on Inspection, Cutting and Packing of traditional textile and technical fabrics for over 50 years.

Testa designs innovative solutions and technologies to optimize inspection and packing to improve efficiency and reduce time and cost.

- Product Range includes:
- Inspection and Cutting Machinery
- Packing – Wrapping Machinery
- Machines for Sample Production
- Inlet-Feeders, Nonstop for Printing Machinery

### **Schill+Seilacher GmbH – Hall 8A, Booth G10**

Schill + Seilacher develops and produces spin finishes and specialty chemicals for all types of plastics, leather, and textiles. See how S+S can help you find ways to improve your products.

### **Sikoplast GmbH – Hall 9, A74**

As one of the leading manufacturers of complete lines for recycling thermoplastics, Sikoplast will be present at K to present the latest technology from grinders to extruders to screen changers to pelletizers.

### **SAUERESSIG UNGRICHT Roller + Engraving Technology - Hall 4, Booth A56**

UNGRICHT leads the world in the custom manufacture of calendar and embossing rolls for numerous applications. Their extensive 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 as well as re-engraving and refurbishing of damaged or worn rolls.

### **Spoolex SAS Spoolex Group – Hall 3, Booth E51**

Multiple representatives from the Spoolex Group will be in attendance to promote their wide range of product offerings including, slitting/rewinding, Ultrasonic cutting and sealing equipment, Technical Rollers and Automated handling/robot systems.

## **Testa S.r.l.**

Testa inspection and cutting machines can be integrated with Shelton Vision Systems defect mapping and optimization technologies to produce state-of-the-art inspection, cutting and packing solutions.



## Shelton Vision Systems

Shelton Vision Systems are specialists in the design, manufacture and application of digital camera systems for surface and product inspection. Since 1971 Shelton has been based in Leicester in the UK and lead by Mark Shelton. During that time they have gained the reputation for pioneering innovation in textile machinery.

Shelton Vision Systems incorporate cognitive computing and artificial intelligence (AI) to 'understand' the fabric appearance and enable system settings to be calculated and automatically applied so that each style has the perfect inspection setting to ensure detection and avoid false alarms.

Deep learning techniques are employed to determine

the defect type (classification) and severity (grade) of defects in real time, as well as to further refine detection and filtering capability.



The systems can be classified by three categories depending on customer requirements.

**Shelton WebSpector**- High Speed textile Inspection System

**Shelton WebSpector Lite** - For less demanding, lower speed textile applications.

**Shelton Fabric Forming Inspection System** - For slow moving web inspection applications such as Looms or Knitting machines.

For additional details, please contact Ian (imills@fi-tech.com) or Fred (fadams@fi-tech.com).

## 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

**Guarneri Technology S.r.l. - Italy**

Textile Calenders

**HANSA MIXER - Germany**

In-Line Mixers and Foamers

**Idrosistem Srl - Italy**

Water Treatment and Recovery Plants for Textiles

**KKA GmbH - Germany**

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

**Lab-Pro GmbH - Switzerland**

Jet Dyeing Machines, Beam Dyeing Machines, Laboratory IR Dyeing Equipment

**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

**Shelton Vision Ltd. - UK**

Vision Inspection & Defect Classification Systems

**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

**Testa S.r.l. - Italy**

Automated Inspection and Packaging Systems



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## EVENTS CALENDAR

### **RISE**

September 24-25, 2019  
Raleigh, NC  
[www.inda.org](http://www.inda.org)

### **K Show**

October 16-23, 2019  
Dusseldorf, Germany  
[www.k-online.com](http://www.k-online.com)

### **IFAI EXPO 2019**

October 1-4, 2019  
Orlando, FL  
[www.ifaexpo.com](http://www.ifaexpo.com)

### **HYGIENIX 2019**

November 11-14, 2019  
Houston, TX  
[www.inda.org](http://www.inda.org)

### **FitEXPO 2020**

February 26-28, 2020  
Chicago, IL  
[www.inda.org](http://www.inda.org)

### **INDEX 20**

March 31 – April 3, 2020  
Geneva, Switzerland  
[www.edana.org](http://www.edana.org)

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### 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, Ian Mills, Brian W. Williamson.

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