

Spring 2021

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!* While it is nice to have 2020 in our rear view mirror, we all still face a lot of challenges regarding COVID and distribution of the vaccine. Here, at Fi-Tech, we have been working in teams to limit time in the office for our employees in order to maintain social distancing, while maintaining 100% of our customer service level and 100% of our shipping capability. A more recent challenge that we have faced because of COVID has been a disruption in our normal

inbound freight from Europe. Limited space on aircraft, combined with a slowdown in ocean freight shipments due to limited container and ship space, has presented challenges. Our Warehouse & Logistics Manager, John Chandler, has been out in front of these issues and has kept the freight moving for us, but we are seeing longer than usual shipping times for air and ocean freight shipments, so keep that in mind when placing orders.



For some good news, for the holidays, our employees were very generous in helping to raise more than \$2,200 to purchase 35 bicycles that were donated to a local charity sponsoring area families in need. Thanks to Vicky Gant Wilson for organizing this fundraising event for Fi-Tech!

In other Fi-Tech news, after 34 years with Fi-Tech, Jon Schmidt retired at the end of February and is looking forward to spending more time playing the saxophone and continuing Revolutionary War reenactments. He has been spending the last few months helping to train our newest hire, Stein Carlsen, who joined us in November. Stein has joined our Fi-Tech team as a Sales and Market Develop Manager and he comes to us with experience in industrial sales and market development with numerous international companies.

In this issue of *In Line with Fi-Tech*, we have an update from Autefa on their Baling Solutions including the new Bale Sealing System and the new Retrofitting Program for older Autefa bale presses to extend their life and boost productivity. On the Nonwovens side, we have an update from Enka Tecnica regarding their MB Smart Meltblown Beams and Spoolex gives us an update on their Spooling and Slitting/Rewinding product lines. In Textiles, Brückner introduces its new process for coating and drying bi-elastic knitted fabrics.

Please also take a glance at our events calendar as we hope to be able to participate in our first face-to-face industry events later this year. In the meantime, please stay safe!

Opportunity to Serve



The challenges of 2020, including COVID-19, did not minimize the generosity of Fi-Tech and its employees for Christmas 2020. In an effort to maximize assistance in our local community, Fi-Tech teamed up with Mercy Mall of Virginia to assist families in our area who are reestablishing homes and recreating stable living conditions. Mercy Mall helps people find housing, fill emergency needs of those who are homeless or reentering society after incarceration or other circumstances. They invited us for a complete tour of their facilities to witness the level of assistance and compassion offered to those who have survived their potentially worst tragedies. Through our campaign, we were able to supply 35 bicycles and 35 locks for the children of these families. Two of our employees volunteered to assemble all bikes that were ordered on-line; as well as volunteers to deliver the bikes to Mercy Mall. This was a heartfelt display of teamwork to help parents give to their children for Christmas.

Many thanks to all who contributed.

Jon Schmidt Retires After 34 Years of Service



Jon Schmidt

As a long time and valued member of Fi-Tech's sales and market development team, Jon Schmidt has decided to retire after 34 years of service. Jon joined Fi-Tech in February of 1987 after working as a Senior Research Associate at Georgia Tech. Jon came to Fi-Tech to help lead our growth in the nonwoven industry.

■ Continued on page 6

FibreVision Fibre TQS for ATY Control

FibreVision FibreTQS is an advanced quality monitoring system that provides total quality control for the ATY Process. A single optical sensor monitors a range of parameters, eliminating the requirement for most routine testing including knit and dye.

FiberTQS Sensors

A single optical sensor replaces the standard end break sensors, and provides measurement of:



Bulk Level

Steady state bulk or texture faults are the major cause of down-stream faults in ATY yarn and can normally only be identified by knit and dye tests. FibreTQS measures the quality of the ATY yarn by characterizing both the core and loop structure of the yarn.

This provides data that allows for tighter control of the texturing process enabling:

- Elimination of off machine QC
- General quality improvement
- Air savings, by operating at lower pressures

Denier Variation

A very sensitive measurement of the short term variation in the profile of the yarn which identifies:

- General process instability (high CV faults)
- Slubs/thin places (transient high/low denier) that typically result from jet contamination.

The transient denier faults are stored as part of the package report together with capture graphs enabling each fault to be viewed.

Denier Change

Faults associated with missing plies can be a major source of quality problems in the ATY process. FibreTQS eliminates these with a very sensitive and unique technique that allows small changes in denier to be identified, providing quality improvements and eliminating the requirement for multiple end break sensors.

FibreVision Fibre TQS for Interlace Monitoring

FibreVision FibreTQS monitoring enables faults to be eliminated that would result in downgrades in downstream processing. This provides both substantial quality benefits and process cost reduction. Used in many applications ranging from POY, FDY, DTY and ACY where monitoring of interlace is important.

FibreTQS System

The FibreTQS system consists of several components:

Optical Sensors

- These are normally located in the winding area and are used to identify interlace level, interlace distance and interlace intensity.
- Identify broken filament and slub problems

Electronics

- The sensors connect to distributed electronics and carry out all high-speed data acquisition and signal processing as well as providing a range of I/O functions.

PC Software

- A simple intuitive user interface with a mimic display of the machine provides the current status of the machine at a glance.

Plant Integration

- Provides facilities for data export and control of multiple FibreTQS machines from a single PC.

FibreTQS Grading and Reporting

- FibreTQS continuously monitors data from the sensors and identifies all quality events. The packages are subsequently graded based on the limits and criteria defined in the merge setpoints and appropriate actions are then taken, such as output activation to cut the end or illumination of a warning lamp.

The key grading limits available in the merge setpoints are:

Mean Variation - Interlace - Minimum Nodes

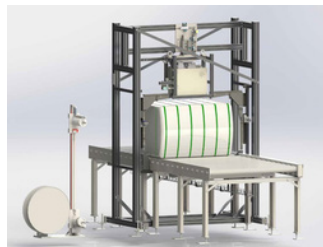
- Maximum distance between nodes, maximum CV of distance between nodes

Slubs and Broken Filaments

- Grading is based on the number of slub events, and/or the total number of broken filaments per package.
- On the basis of the faults identified, FibreTQS automatically assigns a quality grade to the packages (grade 1, 2, 3, 4 or reject). This quality grade is displayed at the machine PC and can be transmitted to any automatic handling/packing system immediately when the package is doffed.

Bale Pressing – Autefa Solutions

Autefa Solutions Germany GmbH has been manufacturing fiber balers and automatic logistics systems for the man-made fiber industry for over 70 years. With well over 3.000 baling presses sold, the machines and downstream handling solutions exemplify know-how and experience. Customers prefer the fully automatic baling presses with combined bale transport and storage. Autefa balers dominate the viscose and polyester staple fiber industry. Autefa balers are also used in the pulp industry for filling fibers for diapers. Other areas of application include the pressing of pulp for the paper industry, the processing of filament tow (acetate) in the cigarette industry and tow handling for precursor fibers in carbon fiber production.



Nonstop-Ultra Baler – Autefa Solutions High-Capacity Baling Press

With a pre-press and a main press, the Autefa Nonstop-Ultra baling press is designed for continuous man-made fiber bale production. This single box baler is equipped with a press box at the pre-press side. The final pressing at the main-press is realised without a box, up to a maximum pressure of 4.000 kN. Due to this unique concept, customers are able to handle 32 bales/h in manual, and more than 60 bales/hr with the fully automatic wrapping machine AD-WRAP.

Uni-Fork Baler

The conventional fiber transfer in a lift turning unit with two press boxes has been replaced by quick and dynamic transfer using the Uni-Fork. The Uni-Fork design allows the pre-press to be available for new fibers more quickly. The patented Uni-Fork is inserted into the pre-press precisely, without damaging or even touching the fibers. When the fork is positioned in the press ram, it moves apart. The fibers pre-compressed with a pressing force of 80t expand into the transfer fork. Then the fork with the fiber turns by 180° and moves into the press ram of the main-press on the opposite side.

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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

Enka Tecnica GmbH - Germany

Spinnerets, Extrusion Dies, Spinpacks, Breaker Plates

EuroSpares - USA

Spare Parts Service for European Machinery

filtertechnik.Eu ope 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

Spare Parts Service for Zimmer® Polymer Plants

Tokuden Co., Ltd. - Japan

Induction Heated Rolls®

Zentes Unitex GmbH - Germany

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

Autefa Balers cont...

Autefa Solutions AD-WRAP

An interesting alternative to standard wrapping and strapping is the Autefa wrapping machine AD- WRAP. AD-WRAP wraps fiber bales with a protective film. Up to 60 bales/h can be produced. Compression of the fibers as well as strapping and wrapping of the bales takes place simultaneously with separate machines. AD-WRAP grips the bale and wraps it. The baling press has more time for pressing the staple fibers as the wrapping does not consume the time of the baling press. The output of a baling press installation can be increased by up to 50%. Two elastic stretch hoods made of polyethylene are put over the bale from two sides. They enclose each other and thus seal the fiber bale safely off from dirt, foreign fibers (e.g. hair) and insects. The AD-WRAP can be perfectly combined with Autefa Solutions Lift Box Balers as well as Autefa Solutions Nonstop-Ultra Balers.

New Autefa Bale Sealing System

Because of industry demands, Autefa has developed their patented Bale Sealing System (BSS) to seal the sides of the bales to prevent contamination of the baled fiber. This is done with an additional strap closing the short side of the bale, replacing the inefficient taping of the sides. The BSS can be a standalone unit or can be in line during the bale transport from the baler. It effectively seals the belly wrap and prevents contamination (especially important in hygiene applications). The system does not reduce the speed of the baler.

New Autefa Retrofitting Program

There are many staple fiber balers in existence and many are quite old. Due to the aging of so many balers still in operation, Autefa has developed a new program for retrofitting older balers with more advanced technology, while keeping the basic “bones” of the older baler intact. This could be an economical option for staple fiber producers who want to improve throughput or quality, without the expense of a new baler. Some of the items that can be retrofitted include:

- Static Condenser and Feeding
- Short Cut Condenser
- Flap Gates
- Pusher
- Electrical Vertical Closing Gates
- Hydraulic Cylinder Air Clean Set Up
- Bale Sealing System (see above)
- AD WRAP (see above)
- AUTO WRAP In Line Automated Wrapping and Strapping

Please contact Fi-Tech, Inc. if you have questions about retrofitting your baler and we can provide more detailed information.

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.



Many details have been improved in the latest version of MB Smart, for example, the shielding of the cables and the possibility to change the heating cartridges without disassembling the isolation connections.

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.

New Developments at Spoolex

There has been a number of recent personnel and product developments at Spoolex. First, we are pleased to introduce Benjamin Grasset to the Spoolex team as a new Sales Engineer dedicated to the nonwoven industry. After a year training under Pierre Croutelle and Christian Montusclat, the sales team is well positioned to help find unique solutions for our nonwoven customers.



Benjamin Grasset

For many years, Spoolex has gained a strong reputation as a qualified expert in spooling technology. Since the 1980's, the well-known Pegase Jumbo Spooling Line has continually evolved to meet the critical spooling needs for ADL nonwovens as well as other bulky and tension sensitive specialty materials. With the ever growing and changing hygiene industry, new materials are in constant development. As a result, Spoolex engineering team is designing and offering spooling lines with innovative slitting and splicing solutions adapted to natural and composite materials. These systems are already running efficiently on several Pegase lines globally. Spoolex has extensive trial and demonstration facilities allowing your materials to be tested under production parameters.



Spoolex is not only known for their proven spooling technology. They also have a complete line of slitter-rewinders having built the first unit for the textile industry in 1955. With over 700 units in production worldwide, Spoolex focusses on their strengths to adapt to specific customer needs especially for challenging applications. An integrated R&D / engineering department combined with a well-equipped test laboratory, Spoolex is able to innovate by developing new solutions. One example of this development capability is their two-in-one solution for slitting, pre-cutting and ejecting system for wipe rolls ready for packing.

Contact us to learn more about the innovative solutions available from Spoolex or to schedule material trials at their facility in France.

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, Complete Meltblown Die Bodies

EuroSpares - USA
Spare Parts Service for European Machinery

filtertechnik.Eu ope 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

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, Ultrasonic Anvils, and MPS Microporous Shells

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

BRÜCKNER Introduces Process Technology for Coating Bi-Elastic Knitted Fabric

Together with a Portuguese customer, BRÜCKNER recently developed a new process technology for direct coating onto bi-elastic knitted fabrics.

Currently coatings on bi-elastic knitwear were only possible by an indirect coating process. However Brückner has developed a coating unit that has been integrated in the tenter entry stand. Using screen coating technology, water-based pastes, as well as stable or unstable foams are applied onto the fabric by a squeegee system through a cylindrical perforated screen drum. A precise foam mixing unit supplies stable and/or unstable foam to the squeegee system. For stable foam, a weight of 150 to 300 g/l is possible; and for unstable foam, a range of 30 to 100 g/l is. As the unstable foam collapses onto the fabric surface, a single-side coating with a very low pick-up of less than 10-20% can be achieved. This minimum application results in considerable energy and cost savings in the subsequent drying process, but also increased production speeds due to less water to be evaporated.

Using the screen coating facility, not only foam coatings can be applied but paste coatings are also possible. The machine parameters can be adjusted in a way that a single-side coating is possible even on light knitwear made of cotton or viscose, providing that the paste is of a suitable viscosity.

Additionally, a knife over roll coating blade can be installed on the tenter entry stand replacing the screen coating facility. With this system, also higher coating weights using paste or foam coatings, can be applied. The counter roller of the screen coating unit will be used as the coating cylinder.

In order to achieve full versatility of the line, a special, rubber coated drum can be used as a top overfeed roller replacing the screen on the entry stand. Even delicate circular knit fabric can be run with an overfeed of up to 60% before heat-setting.

The proven and constantly optimized Brückner tenter frame dryer is the heart of the line. The tenter is equipped with a lubrication free, vertical pin chain system and has specially designed air plenums to avoid picking; but also ensure a soft fabric handle by gently floating

the fabric throughout the oven. The direct heating system by forced air gas burners with high turn-down ratio, in combination with Brückner's staggered chamber arrangement and patented split-flow air circulation design, provide best available temperature consistency across the length and the width of the tenter oven.

A two bowl laminating/embossing calender at the exit of the line allows various effects on the fabric surface. Additional electric short-wave infrared heating banks are directly installed before the roller nip, in combination with an appropriate embossing roller or a fed release paper. The surface of the stable foam or paste layer can be embossed, e.g. with a leather grain surface, or possibly film, membrane or a second textile web can be laminated onto the fabric; whether dimensionally stable or a high elongation.

This new concept offers the flexibility customers need today for heat-setting, drying and coating processes.

Brückner offers in-house trial and testing possibilities of this new technology at its Lab Line at BRÜCKNER in Leonberg/Germany for all interested customers.



■ Jon Schmidt's Retirement cont...

Through prior positions at Kendall Company, Rodney Hunt Company and Neptune International, Jon brought his sales and market development skills to Fi-Tech. Through the years, Jon has led various sales and market development efforts in the nonwoven industry as well as numerous other specific new market segments. During his time with us, he also obtained his Ph.D. in Business Administration and Marketing on top of his previously earned BSME and MBA degrees.

In his personal time, Jon has avidly pursued a number of activities over the years, always completely immersing himself in each pursuit; learning as much as possible. In recent years, he has become an 18th century living historian, Revolutionary War Reenactor, and a National Park Service volunteer. He is also dedicating time getting back into playing his saxophone.

We greatly appreciate the skills, diligence, efforts and success Jon has brought to Fi-Tech. Jon will continue to support us during 2021 as his duties are transitioned. We will miss him going forward.

Benninger Lab Pro

Benninger Lab Pro has deep roots in the manufacture of textile dyeing machines and are led by former Scholl executives Thomas Gerhard and Thomas Widmer. With this experience, Lab Pro can provide a wide range of dyeing machine technologies.

The range of the Lab Pro Dyeing Machines consist of:

- FabricMaster Jets shown in more detail below. Sample Jet capability is also offered at 50 pound and as low as 2 pound, with LabMaster LFM Jet. This small jet is also ideal for head end woven and knitted fabrics.
- SynthMaster for Dyeing woven elastic and knitted fabric in open width with minimal creasing.
- BeamMaster beam dyeing
- JigMaster for open with dyeing



4 Port Lab Pro FabricMaster

Key performance Features

- Programmable Nozzle for adjusting to fabric weight variations and programmable speed controlled internal plaiter
- Programmable nozzle pressure through speed controlled pump and differential pressure control feedback loops
- Industry leading low level liquor ratio capability due to optimized chamber design
- Self-Cleaning Filter with automated monitoring of lint build up

Please contact Ian Mills at imills@fi-tech.com or Fred Adams at fadams@fi-tech.com with any questions or request for further information regarding Benninger Lab Pro capabilities.

Link to their web site is www.benningergroup.com



We are pleased to welcome Stein Carlsen to our Fi-Tech Team as a Sales and Market Development Manager. Stein brings a wealth of experience and capability to Fi-Tech. He started in his new role with us on November 2 last year. Previously, he served as Regional Sales Manager at GEA Process Engineering in Columbia, MD. Additionally, he held several technical sales and market development roles in both the environmental and chemical industries. Stein will primarily assume many of the duties previously covered by Jon Schmidt.

Please welcome Stein to our Team.

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

World of Wipes

July 12-15, 2021

Atlanta, GA

www.inda.org

Techtextil North America

August 23-25, 2021

Raleigh, NC

www.messefrankfurt.com

Virtual Rise 2021

September 28-29, 2021

www.inda.org

INDEX 20 (Rescheduled)

September 7-10, 2021

Geneva, Switzerland

www.edana.org

Hygienix 2021

November 15-18, 2021

Scottsdale, AZ

www.inda.org

IDEA 2022

March 28-31, 2022

Miami Beach, FL

www.inda.org

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