

Fall 2020

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 | sales@fi-tech.com | www.fi-tech.com



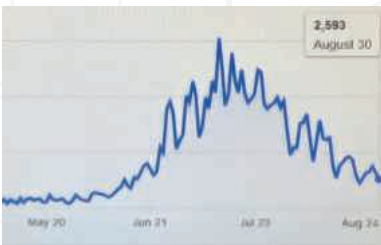
Jeffrey Bassett

Welcome to our Fall 2020 issue of *In-Line with Fi-Tech*. What can I say, 2020 has been one challenging year from so many perspectives. Over the last months, we have all been forced to adapt, in our personal lives and our work lives, to many new ways. Here, at Fi-Tech, we are very proud of our team, and the way we were able to adapt work schedules and methods in order to continue providing the products and services our customers expect without missing a beat. We especially want to give special kudos to our

warehouse team – John Chandler and Pam Linegar. They worked creatively and tirelessly to keep our supply chains open and flowing. We greatly appreciate their dedication and hard work. Going forward, as we continue to experience COVID related challenges in our supply chain, our Fi-Tech Team is committed to providing you the same high level of service and response expected from us.

Our Sales Team is here and available to help you find solutions to your needs and problems even though we cannot meet routinely as we have done in the past. If requested, our Team is available to travel for specific needs, case by case, where in person meetings are required. We are also happy to arrange specific video meetings or conference calls with our various principals since travel to and from Europe is highly restricted and likely to remain this way for the near term.

In addition to interruptions in our routine travels, in person industry events have all been cancelled. We were expecting quite a busy fall schedule with Techtextil North America scheduled for September and INDEX originally rescheduling to October. Now, both have been moved to 2021 or 2022 events. Many conference events have also been impacted. Events sponsored by INDA, EDANA and others have moved to virtual formats. These are valuable events for learning, networking and information gathering. We encourage your virtual participation so that we can maintain industry wide momentum in promoting and developing new technologies and products in a very challenging time. Personally, I am looking forward to participating in virtual events as well as looking forward to a time in the near future when our interactions can return to a more personal level.



In the meantime, we all can be diligent and deliberate in our efforts to ease COVID-19 spread, practice good social distancing, good hygiene and being considerate to others around us.

Tokuden Rolls & UPSS

Tokuden has been a leader in the design and fabrication of induction heated rolls since they built the world's first induction heated roll in 1964. Induction heating, together with Tokuden's "Jacket Roll" technology has made Tokuden the world leader in precision heated rolls. Their ultra-high precision thermal processing technology allows control of surface temperatures to 0.5°C.



Induction Heated Jacket Rolls

Tokuden Rolls

There are two principles that ensure perfect heat distribution and performance, induction heating and the heat pipe principle (jacket chambers).

Induction heating is essentially a method by which the shell heats itself. By supplying an alternating current to the induction coil (inner cylinder), a magnetic field around the coil is produced. This generates an induced current inside the roll shell (outer cylinder), which in turn creates resistance heat which heats the roll.

Tokuden rolls have long, thin, gun-drilled holes called jacket chambers. These chambers are set parallel to the roll axis. A thermal medium is vacuum sealed in these chambers. The medium constantly repeats cycles of vaporization and condensation. The jacket chambers absorb and disperse the heat energy generated inside the roll shell (heat pipe principle) effectively transmitting the heat uniformly to the roll surface.

There are several advantages to using Tokuden Induction Heated Rolls:

- Wide temperature range – Due to the efficiency of induction heating, this system can provide high temperatures and precise control in 1°C increments from 40°C to 400°C.

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Hansa Mixer: “For the Right Mix”

Hansa Mixer is one of the world's leading providers of foam mixers, aerators and in-line compounding systems for the food and non-food industries. Hansa Mixer foam mixers and other products are used in a number of industries:

- In the production of foam coatings and impregnation for the textile, nonwoven, leather, carpet and artificial turf industries
- In the mixing and aeration of adhesives in the paper, wood, packaging and corrugated paperboard industries
- In the mixing, aeration and in-line dosing of a wide range of products in the food, cosmetic, and pharmaceutical industries
- And in-line compounding systems as an alternative to mixing kitchen, batch systems and batch mixers

Foam mixers are used to increase the volume of liquids through the introduction of air. This means that small amounts of liquids can be applied in a very precise and accurate manner. Foaming saves material costs because less material is needed. Also, a lesser amount of water is being applied which means less drying time which translates into energy savings.

The Hansa Mixer range of foam mixers, aerators, in-line compounding systems and other systems has grown constantly in line with customer needs. Foam mixers range in size from lab units with capacities as small as 1 kg/hour up to large production units with capacities up to 10,000 kg/hour.

Over 2,000 customers across more than 120 countries trust Hansa Mixer's expertise in the production of foam mixers, aerators, in-line dosing systems and in-line compounding systems of the highest quality, coupled with comprehensive service. Most of the 5,000 foam mixers produced over the past 40 years are still in service today, including 300 units in North America. Please contact us if you would like to arrange a trial with a rental unit.



UNI-MIX Production Mixer



PICO-MIX Lab Mixer

■ Tokuden cont...

- Uniform surface temperature – The heat pipe effect maintains a uniform temperature both across and around the roll. The temperature profile stays uniform even when a thermal load is applied.
- Compact, easy to use electrical system – Since the Jacket Rolls use electricity, there is no need for additional facilities or special construction. The equipment takes up minimal space and is easy to operate.
- Energy efficient and green – The low maintenance rolls are very energy efficient compared to other methods, such as oil or steam heating. There are also no dirty, messy materials like oil that can make for an unclean and unsafe work environment.

The design and application of Tokuden rolls are wide and varied. They can be designed as:

1. Small cantilevered rolls for processes like carpet fiber spinning
2. Large cantilevered rolls for processes like staple fiber spinning and carbon fiber
3. Dual journal for processes like film and laminating

Essentially, Tokuden can manufacture heated rolls used in nearly all processes where heated rolls are used. Industries served include:

1. Synthetic Fibers – Inc. staple, carpet, FDY, aramid, carbon fiber
2. Nonwovens – Thermal bonded air laid, spunbond
3. Films/Film Packaging – PET, BOPP, PTFE
4. Paper and Foils
5. Laminators and Converters

Air-Cooled Design

Tokuden is constantly looking to improve the design of their rolls in order to support customer needs, especially small batch producers that must constantly change product. Their most recent development is the Air-Cooled Hybrid Roll.

The air-cooled hybrid roll is a system that enables the roll to be cooled to room temperature very simply by vacuuming air through the roll without the need for water or air utilities. The demand for this product has increased quickly due to the ease and simplicity of using a vacuum system utilizing the outside air pulled through the interior of the roll. Compared to other methods, this system's ability to lower temperature is excellent. The only challenges with this design are the dependency of a clean air supply, air temperature and a higher noise level due to the vacuum system.

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MOZART

MOZART is primarily known in the market as a manufacturer of high-volume blades with high precision. The need for prototypes was difficult to serve in the past. Small series were completely beyond their capabilities.

By building a special laser cutting system, MOZART has been able to serve these areas professionally for several years now. Of course, the blades manufactured in this way are at a higher price level, but the steadily increasing demand shows that MOZART has hit a nerve here, especially among developers, machine builders and customers who only need a small number of a special blade.

The process offers the following advantages:

- Prototypes from 1 piece and in perfect series quality
- Small series up to 5,000 pieces are possible
- Fast deployment and supply within a few weeks
- There are no tool costs
- Materials in stainless and carbon steel quality
- Various material thicknesses between 0.10 and 1.00 mm available
- One-sided and two-sided, straight cutting edges are possible



Interested? Please contact us, we will be happy to advise you and explain our options in detail.

For additional information, please visit:
www.mozart-blades.com



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.Europe GmbH & Co. Kg - Germany

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

Galan Textile Machinery- Spain

Mini Twisters, Heavy Duty Twisters, Specialty Twisters

HANSA MIXER – Germany

In Line Mixers and Foamers

Heberlein - Switzerland

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

MOVEngineering Srl - Italy

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

Mozart AG - Germany

Staple Cutting Blades, Film Slitting Blades

Reifenhäuser REICOFIL® GmbH & Co. KG - Germany

Extruders, REICOFIL Spinbonding Plants, Melt Blowing Plants

Saurer FibreVision - 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

■ Tokuden cont...

The utilization of the roll can be divided into two types: rapid cooling and balanced operation. The purpose of rapid cooling is to improve the productivity of multi-product small volume production. In the daily production schedule, the cooling time of the roll can be decreased rapidly allowing for quicker start up times between grade or material changes.

The purpose of balanced operation is to maintain a constant roll surface temperature. In many applications, the material temperature entering the roll will be higher than the set point temperature of the roll; thereby increasing the roll surface temperature above the set point. When this occurs, the control system will automatically switch on the air cooling, maintaining the set point temperature.

The option of using air-cooled technology adds only a nominal increase in price over standard rolls.

Other Roll Types

Tokuden can also produce fluid circulation rolls (chill rolls) and rolls with changeable embossed sleeves that still use the heat pipe principle to maintain temperature uniformity, no matter the thermal load. They also make high temperature (700°C) rolls that use multiple internal coils to balance heat uniformity.

UPSS

Tokuden has also developed a superheated steam generator called the Utility Power Super Steamer (UPSS), which uses components of Tokuden's core technology (induction heating) to produce superheated steam with minimum energy consumption.

The UPSS can heat both water and the saturated steam found at many manufacturing sites. The special transformer design allows for the heating of the steam up to 1200°C, much hotter than can be achieved

by other means. It is done by using a special transformer that has a wound magnetic core with three-phase coils in a triangular configuration. The arrangement allows electrical balance and efficient use of power. The process to heat the water is simple. The water (or saturated steam) enters the primary conductor tube and circulates around the metal core and continues on to circulate around the second and then third magnetic core. It then circulates a second time through the secondary conductor tubes and exits as superheated steam.

There are five key benefits to the design of the UPSS:

1. Very high temperatures can be achieved (1200°C).
2. Low Energy Costs – Because you are using a transformer instead of a frequency inverter, there are significant savings.
3. Achieved heating efficiency is 95% or better.
4. The system is clean/green.
5. Low Maintenance – Periodic tube cleaning and valve replacement is all that is required.

Tokuden, Inc. has a 20 kg/h steam model for trials on site at their Norcross, GA location. Tokuden will also have five (5) smaller 5 kg/h steam units available by late fall for loaner trials at the customer's site.



Induction Heated Godets

SAUERESSIG SURFACES

We all know SAUERESSIG UNGRICHT as a reliable expert. SAUERESSIG UNGRICHT has strong technical expertise in surface processing and finishing for a wide range of industries. The portfolio includes rotogravure and embossing cylinders as well as surface design and services along the entire pre-press stage. As part of recent reorganization, the brand will now be renamed to SAUERESSIG SURFACES.

For decades they have been supporting our customers in the implementation of their ideas and focus on quality, service and customer orientation with tailor-made solutions. This support includes aid with design, 3D simulations, 3D prints and lab scale tools which can be tested in each customer's line. This speeds up the evaluation process for the development based on true production specifications prior to the production stage.

In the hydroentanglement of Nonwovens, most manufacturers are using MPS screens, which can be manufactured by SAUERESSIG SURFACES in diameters up to 1000 mm. Each unit is being delivered with

customized stainless steel reinforcement rings to establish elongated lifetime. Apart from the reliable standard, also customized solutions in respect of wall thickness, hole density and hole shape can be supplied. More bulk in the Nonwoven, and less energy consumption at the injectors, are advantages of these products for the Nonwoven Market. Three manufacturing techniques are available to support the spunlacing of the Nonwovens:

- 2D drums are meant for quickest and least expensive way to hydroentangle Nonwovens. The unique laser engraving+etching technology developed by SAUERESSIG UNGRICHT is the best choice for High Bulk Nonwovens and Apertured materials.
- The 3D plating technique makes sure the visual impact on the Nonwoven is state of the art.
- Depending on the application area of Wet Wipes, Medical, Household Wipes, Dust Cleaners, Color Catcher or Cotton Based Nonwoven, a dedicated choice and adjustment of the engraving method ensures the perfect brand display.

HASTEM® Aprons Deliver on Quality and Performance

AB Pinned Apron



CC25QG Slat



CC25GT Slat

For more than 50 years, the name Hastem has been synonymous with quality, performance and innovation in the production of both pinned and slat transport aprons. Based in Nördlingen, Germany, Hastem produces all key components for their patented and proven apron systems found as standard on many OEM web forming systems. Key suppliers such as Andritz, Autefa, Dilo, Laroche, Trützschler and others rely on Hastem pinned aprons and slat aprons in a variety of applications.

Hastem's AB range of pinned aprons are normally used in bale opening, fiber transport and blending applications for both dry and air laid applications. Their well-known C System of slat aprons are used to transport unbonded webs in cross lappers, needling or other dry laid nonwoven production. The variety of slat surface textures and finishes allow for a range of grip and performance in these critical web transport applications prior to web bonding.

Both the AB and C Systems aprons are designed for easy installation using overlapped drive belt junctions allowing for belts to be removed and re-installed. The component based construction also allows for quick and efficient repairs in place. Individual slats and related parts can be replaced or repaired as needed extending the lifetime of the apron.

Fi-Tech, Inc. has proudly served as Hastem's North American distributor since 2002. We maintain a stock of critical repair parts allowing for quick deliveries. In case of apron replacement, we are able to quickly respond with competitive quotes and short delivery times. Through years of experience, Fi-Tech has also perfected the logistics of transporting these often wide aprons of up to 6 meters and more from Hastem's facility in Germany to our North American customers both cost effective and efficiently. Please contact us for more information or a quote for replacement aprons.

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.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

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 SURFACES – Germany

Calendar 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

Idrosistems Energy srl.

Idrosistems Energy srl. specialize in the design of water treatment and recovery systems for the Textile and Nonwoven Industries. Based in Bassano Del Grappa, North East Italy, they have supplied 280 water treatment and recovery systems worldwide.

Led by Saverio Trevisan, Managing Director and Owner, Idrosistems are ISO 9001:2000 certified with an experienced team of engineers, technicians and designers who custom design every installation to the individual needs of the customer. Systems provided for the Textile Industry can be classified into three areas:

Raw Water Conditioning

Analysis of the incoming water quality is required to determine the best solution for each location.

Idrosistems can then design a system to modify and adjust Hardness/Softness and remove impurities that could affect the dyeing and finishing process. The following technologies are used in this water treatment:

Softeners, Alkalinity Removal, Reverse Osmosis, Ultra Filtration, UVC Sterilization, Active Carbon Filtration

Waste Water Treatment

All textile dyeing and finishing operations produce waste water that contain contaminants that require treatment before being returned to the environment. Coloration from dyes and pigments, toxic and nontoxic chemicals and a wide range of pH from highly acidic to highly alkaline.

Dependent upon available space and quantity of water needing treatment, Idrosistems will design a custom made system to treat this waste and bring it to the required level for local environmental standards using a number of technologies:

- Biological Treatments – Aerobic Total Oxidation, Bio Filtration, Anaerobic (UASB) and MBR (Membrane Bio-Reactor)
- Chemical - Physical Plant – Dosing with suitable chemicals to cause an insoluble precipitate
- Band Bio Float / Band Float – Combination of aerobic and Chemical Physical patented by Idrosistems



Complete Biological Treatment Plant

Water Recovery

Increasing demand in recent years to reduce and control water consumption has led the Textile Industry to examine ways to reuse process water. Rinsing and washing operations can account for 80% of process water.

Based on the quality of water required in these processes Idrosistems can custom design a system that can recover up to 70% of this process water using a range of available technologies:

Sand Filtration with internal floatation, Resin Filtration, Ozone Oxidation, Ultrafiltration, Reverse Osmosis, Evaporation.



Ultrafiltration and Reverse Osmosis Recovery System

For additional information, please contact:

Fred Adams (f.adams@fi-tech.com) or Ian Mills at (imills@fi-tech.com.)

Mario Crosta Launches the New POLARIS-28

Mario Crosta s.r.l. of Busto Arsizio, Italy is one of the world's leading manufacturers of raising, brushing and shearing equipment for surface finishing for garments and technical textiles. Recent developments of the tried and trusted Mario Crosta machine designs have resulted in the upcoming launch of the new POLARIS brand. In production scale trials have yielded productivity increases of over 50% compared to machinery that is commercially available today.

With almost 100 years of experience in the industry, Mario Crosta has implemented innovative re-designs of the main drums, cylinders and tension control protocols to deliver the game changing speed increases on their double drum machines.

For further information on POLARIS, please contact:

Fred Adams (f.adams@fi-tech.com) or Ian Mills at (imills@fi-tech.com.)



Innovate Textile & Apparel Virtual Trade Show

As a result of the cancellation of key industry exhibitions this year, manufacturers of technology and materials do not have a platform to showcase their products. Travel also remains a challenge for many people. So the logical conclusion is to create an online event where manufacturers can exhibit their innovations to an unrestricted global audience. The Innovate Textile & Apparel Virtual Trade Show will be live on 15-30 October 2020.



Innovate 15-30 October 2020
Textile & Apparel Reconnecting innovation in the
VIRTUAL TRADE SHOW textile & apparel value chain
 vts.wtin.com

The Virtual Trade Show will present exhibitors the opportunity to develop virtual booths with links to real time chats, videos, seminars and presentations on their technology. There is also the ability to schedule follow up video meetings. In addition, there will be 12 roundtable panel discussions, led by industry leaders on a wide range of topics such as Anti-Microbial Future for Textiles, Challenges for PPE production and Bio-Degradable Textiles.

At time of going to press, Fi-Tech's principals, Brückner Textile Technologies and Mayer and Cie are both exhibiting.

In order to register to attend as a visitor, please visit: <https://vts.wtin.com/register>

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, Calendaring, 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

OUTLOOK 2020

September 23 - 25, 2020
Virtual Platform
www.edana.org

RISE

September 29 - October 1, 2020
Virtual Platform
www.inda.org

IFAI EXPO 2020

November 3 - 6, 2020
Virtual Platform
www.ifaexpo.com

HYGENIX 2020

November 17 - 19, 2020
Virtual Platform
www.inda.org

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September 7 - 10, 2020
Geneva, Switzerland
www.edana.org

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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