

India ITME 2022

Some of the latest technologies on display



The India ITME has played a significant role in facilitating technology access to the nation's textile industry from across the globe, enabling textile segments to upgrade their manufacturing technology. India ITME 2022 will offer unmatched business to the exhibitors as the Indian textile industry is set for strong growth, buoyed by strong domestic consumption as well as export demand. It will open windows to various business verticals in the form of leads, contacts, and inquiries on a massive platform. Over the years, India ITME exhibition has become a must-attend event for South-East Asian countries. Here we are covering some of the technologies that will be on display in India ITME 2022.

■ A.T.E.: Your Partner in Sustainability, Innovation, and Technology

The India ITME exhibition is the ideal platform for textile manufacturers to source, as well as learn about, the latest textile technologies. Successfully serving the Indian textile industry for more than eight decades, A.T.E. and its principals have been enthusiastic participants in every edition of the ITME expo and this year is no exception.

With more than 2000 square metres of space at ITME, A.T.E. and its principals will showcase leading edge textile technology products and solutions – from spinning, fabric forming and processing. In addition, we will also display automation for textile machinery, effluent treatment, nonwovens, synthetics and carpets and much more! A.T.E.'s own pavilion of more than 500 square metres carries 20 textile processing principals such as Fong's, Monforts, and Zimmer, Osthoff Senge, Mahlo, CEIA, Danti Paolo, Color Service, Guarneri Technology, and more.

A.T.E.'s pavilion will also house our business units such as HMX (heating and cooling solutions), Axis Valence (electrostatic control and defect detection systems), A.T.E. Automation division (automation, machine upgrade, and core/slub yarn systems), A.T.E. HUBER Envirotech (wastewater solutions) and EcoAxis (industrial IoT solutions).

TeraSpin has its own stall and will display our world-class spindles, drafting systems, cradles and inserts, A.T.E. automation division's solutions for core and slub yarn and DeChang's compact spinning.

A.T.E. can offer a package of machinery for processing woven, knit, denim, terry fabrics and technical textiles. The representatives of all our principals will be available at our pavilion to discuss the latest technology for processing various substrates.

Principal stalls at ITME: Truetzschler (H10A3), Karl Mayer Group (H15C10D9), Fong's (H1A1B2), Teraspin (H10B8), A.T.E. (H10B8), AxisValence (H1A1B2), Color Service (H1A1B2), MAG (H10E11), De Chang Textile Tech (H10B8). We cover some principal technologies below:

Truetzschler to present latest Textile Solutions



German textile machinery manufacturer Truetzschler Group will attend the India International Textile Machinery Exhibitions (ITME) trade fair from December 8–13 at India Exposition Mart Limited in Greater Noida. The group's 486-square-meter stand no. A3 (Hall 10), will showcase the latest machines and technologies from each of its business areas: spinning, card clothing, nonwovens, and man-made fibres.

A team of Truetzschler experts from Germany and India will be available to describe and discuss the company's innovative solutions for the textile industry and will be supported by the

sales team from its agency A.T.E Enterprises Limited, according to a report by Truetzschler.

The following exhibits from Truetzschler's spinning business will be showcased at the event. The TC 19i card is the first intelligent card, and opens up new opportunities for productivity and quality with its self-optimisation function. Using data from the tried and tested T-CON 3, the T-GO gap optimiser permanently and automatically keeps the carding gap at the optimal position, even under changing production conditions. Wastecontrol helps to minimise the loss of good fibres, and Nepcontrol constantly monitors the nep count.

The TC 12-1 S card sets the benchmark in one-meter cards. It boosts quality and productivity thanks to its highly precise flat setting system (PFS 40). Wastecontrol can reduce loss of good fibres by up to 2 per cent (for cotton). The state-of-the-art Smart Touch and T-LED remote display provides easy operations. And the new coiling solution T-Move 2 with Jumbo Cans can increase can filling by up to 50 per cent. The synthetic version of the TC 12 card on booth with special execution with tailor-made technology components and stainless-steel parts offers the highest productivity with the lowest energy consumption.

The TCO 21 comber is an innovative combing machine that maximises productivity and automation, while also providing excellent process efficiency and yarn quality. With Dual Drive and 2-Twin-Drive, the TCO 21 is the only comber that offers direct drives on both sides. The unique self-optimisation of the Piecing Optimizer perfectly adjusts the piecing time and detaching curve. Smart Touch, RFID, and T-LED ensure easy operation.

The TD 10 spinning draw frame is an ultramodern auto-leveller draw frame that features the latest digital levelling technology. Due to its smart design, the TD 10 requires on an average 20 per cent less space than comparable competitors' models. It is also equipped with a highly efficient suction system. The intelligent Smart Creel and T-LED remote display offer superior functional reliability. Special features like Auto Draft and Opti Set deliver significant performance improvements.

The pre-cleaner CL-X (exhibited as scale model) is a new high-performance pre-cleaner that offers higher productivity and lower energy consumption. Its improved grid geometry and 2.60-meter cleaning section achieve superior cleaning and separation at high production rates. The flexible machine is able to run two mixing lots at the same time, while different sizes of waste can also be separated. It features stepless speed adjustments for the opening rollers and individual adjustments of grid bars for each opening roller. An additional Wastecontrol sensor is also integrated into the CL-X, which avoids the unnecessary loss of valuable good fibres.

Truetzschler will present a new type of clothing for different processing needs and special applications. The company's new Supertip series of cylinder clothing offers improved fibre guidance and allows optimal fibre transfer, which significantly improves nep removal efficiency. Its special metallurgy also helps to achieve much 'longer working life'. The Novotop series of flat tops makes a significant positive influence on the carding process. At the stand, visitors will be able to see models and samples of the manufacturer's unique range of wires. Truetzschler's card clothing experts will be available to answer any questions.

The new T-Suprema solution for needle-punched nonwovens will be part of the exhibit at India ITME. Mechanically needled nonwovens are highly functional textiles used in construction, transportation, and industrial production. T-Suprema production lines make the needle-punching process easier than ever. Truetzschler Nonwovens partners with Texnology, an expert in needle looms and other needle-punching machinery. Truetzschler's offer includes efficient machinery for manufacturing top-quality geotextiles, filtration media, automotive textiles, and nonwovens for special applications.

The Optima platform is a key part of Truetzschler's presence at India ITME. The Optima for Bulk Continuous Filament (BCF) concentrates on the needs of carpet yarn producers. With the four-end MO40-C, MO40-E, and TO40 extrusion systems, customers benefit from outstanding productivity, top-quality yarns, and low production costs. The new variant Optima for Industrial Yarn (IDY) transfers these advantages to the production of industrial and technical yarn. The TEC-O40 and TEC-O80 systems allow for the efficient manufacturing of high-tenacity, low-shrinkage, low-denier, and semi-industrial filament yarns. Applications cover tyre reinforcements, airbags, belts, geotextiles, ropes, and nets, as well as tents and travel luggage.

India ITME 2022 offers an opportunity for Truetzschler's experts to speak to people from across the textiles industry in India and around the world. The company views India as a market with exciting potential for further growth and has a long track record of providing this market with innovations that cut costs, improve quality and productivity, and support progress for sustainability.

Karl Mayer, ISOWARP Sectional Warping Machine



Warping of fine monofilaments is a sensitive and demanding process. The slightest deviation of any warp parameter from the desired, pre-set value affects the quality of the finished fabrics as it leads to defects such as stripes, irregular fabric appearance, or a wavy weave. That is why KARL MAYER's sectional warping technology, a well-proven solution for perfect warping of fine monofilaments, is the preferred choice for this exacting application. What's more, KARL MAYER Textile Machinery India can offer the ISOWARP sectional warper that is ideally suited for fine monofilaments, an exact replica of KARL MAYER's German product.

Monofilaments are mainly used in weaving of:

- Precision fabrics for printing and filter industries
- Home textiles, and
- Fabrics for women's outerwear

While the yarns mainly used are made from PA6, PA66, PP and PES, in the precision fabrics segment the finest yarns

of 7 dtex (finer than a human hair) with up to 270 threads per cm are used, which reaches the limits of feasibility in weaving technology.

Fine monofilament yarns (22 dtex PES) are also processed on ISOWARP for home textiles and women's clothing.

Demands on the warping process during processing of fine monofilaments:

- Regular yarn tension from the creel
- Minimum yarn wear
- Least possible thread strain
- Precise section alignment
- Constant, lowest possible widening of the section of warped threads
- Absolutely cylindrical warp build-up on the warping drum
- Completely identical thread lengths
- Exact thread array
- Elimination of static loads
- No lost threads in the warp
- Digressively adjustable beaming tension
- Maximum productivity with minimum personnel costs
- Simple operation
- Absolutely reproducible
- No snarls in the warp
- No contamination by oligomers

Machine design: While precision fabrics are mostly woven on machines with a working width of 2200 mm, home textiles normally require a working width of 3400 mm or 3800 mm. Waxing and pressing devices are not necessarily used during beaming, as on the one hand finishes are already applied to the yarns during the spinning process, and a presser device cannot ensure equality of the yarn lengths.

Normally, swivel gate creels with draw-off through the center are selected with the number of positions between 640 and 800. These are equipped with double disc tensioners and in certain cases with an integrated single tensioner blow-off. Either capacitive or electromechanical systems are used for yarn monitoring. Antistatic devices are important in both the creel and the leasing device, and on the warping machine just before the winding point on the drum.

Monforts extensive range of Finishing Technologies

Vertically integrated knitting facilities will be able to explore the latest fabric finishing options from Monforts at the upcoming India ITME exhibition. The 2022 ITME textile machinery, which takes place at the India Exposition Mart in Noida, Uttar Pradesh, from December 8-13 is seen by the finishing machinery specialist as a timely event for the industry.

India recorded its highest-ever textile and apparel exports worth US\$44.4 bn in the year to the end of March 2022, up 41 per cent on the previous year. In parallel, the country's government has also announced the new \$4 million Textile Technology Development Scheme to support textile machinery technology investments and upgrades.

At the exhibition in Noida, Monforts and its national representative A.T.E. Group will provide the latest information on an extensive range of finishing technologies.

Econtrol is a pad-dry process employed in Monforts continuous dyeing. With reactive dyes for 100 per cent cotton or the Econtrol



T-CA solution of combined reactive and disperse dyes in particular, the improvement in both dyed fabric quality and dye fixation is considerable, and with significant savings in energy and time due to the combined bleaching and padder fixation.

Monforts machines are known for their robustness and long service life, but the retrofitting of specific modules with new control and drive technology – going far beyond the basic replacement of spare parts – can also have a significant impact on the performance of an existing line. This is especially the case in achieving further energy savings.

The company's universal Energy Tower, for example – a flexible, free-standing air/air heat exchanger for recovering the heat from the exhaust air flow of thermal processes – can result in an up to 30% reduction in the energy consumed by a line, depending on the controlled exhaust air volume and operating temperature. Looking at the CDR/Econtrol dyeing ranges, this solution leads customers to a more sustainable and efficient dye process.

The Monforts Eco Booster, which is completely integrated into the chamber design of the latest Montexstenter, is another retrofitting option. This single state-of-the-art heat recovery system with automatic cleaning can be added to existing ranges of up to eight chambers to achieve significant energy savings.

Monforts also offers the conversion of existing machines to various heating combinations such as gas/steam, gas/oil, electric/steam or gas/gas. In view of the global energy crisis, this offers important alternatives for the energy-intensive textile finishing industry.

“India is a major market for us, and we have long-standing relationships of mutual trust with many of the leading textile manufacturers, who appreciate our ongoing service programmes,” said Monforts Sales Director SEA, Hans Wroblowski. “Among our recent installations in the country, we have provided new lines to companies including Arvind, Auro Textiles, Birla Century, Himatsingka, Nahar, Nitin, Premier Fine Linens and Vardhman.

“As our representative in India, A.T.E. has proved the perfect partner in installing and commissioning Monforts machines, with its service team working side by side with our own engineers to ensure the machines fully meet every customer expectation. India will always be a major market for Monforts, and we will continue to develop our machine programme based on the always-valuable feedback from our Indian customers. We are looking forward to reconnecting with many of them, and to welcome visitors to our stand at ITME in Noida this December.”

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Robotic Lab Dispenser



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Benninger launches three new products

The Swiss company Benninger has been the textile industry's leading partner across the globe for more than 160 years developing and manufacturing textile finishing and tire cord production ranges as well as complete system solutions. Their branches and service representatives are located all over the globe. Thanks to their comprehensive process know-how and their desire for continuous learning customers benefit from high-quality installations with excellent customer service.

Benninger offers overall solutions for all important textile wet finishing processes with a special focus on the continuous open-width treatment of woven and knitted fabrics as well as technical textiles and on jet dyeing machines and jiggers.

Benninger is proud to present the Jet dyeing machine FabricMaster, the brand-new singeing machine SingeRay and the all new Cold-Pad-Batch (CPB) dyeing machine for knitted fabrics at India ITME 2022. Visitors are welcome to receive firsthand information about the outstanding products in hall 3 booth C1D2.

FabricMaster

Benninger produced the fastest, most versatile and economic Jet dyeing



machine in the industry which ensures dramatically shorter process times. The FabricMaster is not only a robust and reliable system, but the benchmark of the industry in future. Its harmonic versatility is the beacon to conquer new markets. Benninger's passion for perfect fabric quality makes sure that finishers produce the widest range of fabrics at lowest cost and unmatched low water consumption levels.

SingeRay



The latest singeing machine is equipped with two burners and a double nozzle strip – 100% made in Germany. The silicium carbide burning chambers ensure complete combustion, and a constant burner temperature thanks to four cooling channels. Low gas consumption and a perfect flame will increase the scope of fibres and blends.

Cold-Pad-Batch



The heart of the CPB dyeing station is still the padding mangle with two Küsters S-roller systems. Now it offers best accessibility through optimised design with compact dimensions and a dyeing trough that swivels downwards and backwards. Enhanced operator safety is another key feature of the new design. Benninger is the market leader for 100% level dyeing results with no listing or tailing. The S-roller technology creates a nip profile adapted perfectly to the fabric and process requirements.

Santoni latest knitting machines INNOTAS, design to manage lints

Santoni is the very first Italian sock knitting machine manufacturer. In 1989 it became part of the Lonati Group, a Group that operates in several different sectors of activity, i.e., textile engineering, electronics, iron and steel manufacture, agriculture, financing, real estate, research and multi-utility and Instruction. In the last 20 years Santoni has developed a series of circular electronic "Seamless wear" knitting machines becoming a worldwide leader in this technology.

Santoni launches knitting machine Model Innotas designed to manage the lint

Advantages:

- Increased interval between cleaning of machines by 4 to 5 times
- Reduced downtime of the machines leading to increased production
- Reduced dirt accumulation behind needles & below sinkers
- Uniform loops knit structures excellent lycra plaiting even while knitting different knit structure
- Reduced annual oil & power consumption



- Advantageous to knitters of carded, indigo dyed & other yarns which force frequent cleaning of knitting head

Features

- Specially designed cylinder, cams, cam boxes & sinker cam plates
- Self cleaning needles and sinkers

Groz-Beckert present latest innovations from its knitting product division

Groz-Beckert will be presenting innovations from its various product areas. In Hall 14 at Stand A4B3 in the India Exposition Mart Ltd, Groz-Beckert will be welcoming guests on site.

India ITME takes place every four years and is the ideal technology platform for forward-looking innovations in the textile world. At the 11th edition of India ITME, exhibitors will be presenting their highlights from research and development across 15 halls – including Groz-Beckert.

The Knitting Product Division will be presenting several new products at India ITME: Among them the SAN™ SF staple fiber needle and the SNK SF staple fiber sinker, which are specially designed for use on large circular knitting machines. The division will also be exhibiting the SAN™ TT for application-related use in the field of technical textiles for flat knitting machines, as well as a needle which enables the advance into new dimensions of gauge in the flat knitting sector.

Groz-Beckert will also be demonstrating its competence as a system supplier in the field of warp knitting at the India ITME. The warp knitting machine needles and system parts from Groz-Beckert are precisely matched to one another and achieve a uniform and flawless warp knitting process.

With the Warp MasterPlus and the KnotMaster, the Weaving product



division presents the latest generation of drawing-in and knotting machines from Groz-Beckert. They are particularly distinguished by their ease of operation and flexibility.

The product area Felting (Nonwovens) presents its product and service highlights for the nonwovens industry. These include the HyTec P jet strip for spunlace customers as well as the GEBECON felting needle, the dur needle, EcoStar felting needle and the Groz-Beckert customer product. The HyTec P-nozzle strip is characterized by improved handling and higher hardness. The patented GEBECON felting needle offers an improved surface finish and optimized breakage bending properties.

The Carding product area will present its further developments for the spinning industry. These include the new stationary flat series, the TV56 revolving top and the cylinder wire set with special tooth geometry. The new stationary flat series is characterized by innovative

tooth geometry and a new type of tooth distribution. The new TV56 revolving top with its new setting pattern and 560 points per square inch is particularly easy to clean. The improved cylinder wire convinces with its special and patented tooth shape, which has a positive effect on the maintenance effort. This makes it particularly suitable for quality-oriented cotton spinning mills producing high-quality yarns. Visitors can also look forward to the new InLinecard clothing series for the nonwovens sector.

In the Sewing exhibition area, the focus is on technical textiles – in particular the manufacture of car seats. The answer to the high demands of sewing car seats is the special application needle SAN® 5.2 from Groz-Beckert. The special geometry gives it sufficient stability. The double groove at the point improves thread guidance and leads to a uniform seam pattern, especially in multidirectional sewing processes. The scarf chamfer on both sides of the needle prevents skipped stitches and optimizes loop formation. The wear protection is increased by the titanium nitride coating GEBEDUR. In addition, the quality management INH will be exhibited and the functions and contents of the customer portal will be presented.

Further innovations, new products and services await visitors to the Groz-Beckert stand during India ITME – live on site in Noida.

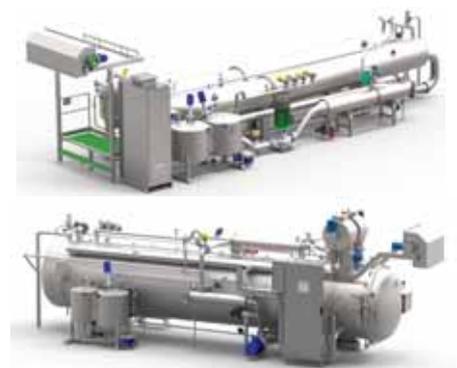
LAIP to present latest Yarn and Fabric Dyeing Machine

LAIP, an Italian dyeing machine manufacturer that has developed high quality products for yarn and fabric dyeing, invested resources in research and collaborated with textile companies to meet their needs, will present at India ITME 2022. The company will bring its latest innovative technologies like 198 HT, Bobbins Injection Dyeing (BID), 250 HT Jet and Nautilus to the event.

The 198 HT is a highly demanded machine for tow-packages and fibre dyeing that allows the same liquor ratio to be maintained even with partial loads. BID ensures absolute repeatability, productivity and reliability for multicolour printing and dyeing of yarn in bobbins and 250 HT Jet is the easy

machine that never stops to get perfectly dyed fabrics with no abrasions nor creases. As for Nautilus, it is conceived with a double belt and is suitable for dyeing delicate fabrics keeping the low liquor ratio constant by the maximum fabric load up to 40 per cent. The low water consumption means low electrical consumption and energy saving.

All the machines are tailored to the needs of individual customers and have the predisposition to industry 4.0. Once customers install a machine, they enjoy advanced assistance: a dedicated and competent person who is informed of the client's needs, an APP providing remote assistance and advice thanks to augmented reality software and local technicians in



case of on-site intervention, the company said in a media release.

LAIP dyeing machines will be showcased at the stand of Bakubhai Ambalal – Hall H7 M2 at India ITME to be held in Greater Noida from December 8-13, 2022.

Smart and eco-friendly solutions for textile finishing by Santex Rimar

The finishing sector is undoubtedly the most significant stage in the value chain – contributing to a wide range of properties in the textile end-use. Bringing an ideal look, touch and functionality to many different applications is a real challenge for machine manufacturers. Smart innovations are needed. And customers also demand solutions that respect both valuable resources and the environment. The Sperotto Rimar portfolio combines both ingenuity and sustainability, to meet these goals – and customer needs which can be discussed with the real experts at upcoming India ITME.

Sperotto Rimar follows two energy-saving strategies in machine development for fabric finishing. The first aims at technology which skips one or more production steps, to shorten the finishing process. Equally important is the use of innovative components such as motors, electrical and electronic controls, which can significantly reduce energy consumption.

Optimizing finishing processes is another way to save energy. The highest potential for energy saving today would come from reducing the use of steam, water or electricity in processing, and adopting technical solutions to limit, or partially recover, the energy consumed.

Short process, big impact

The Decofastdecatising machine offers significant energy savings with the substitution of a discontinuous process. On certain fabric types, it allows users to skip one pass of direct steaming with pressure. This shortened process results in lower energy consumption and requires less labour. The technology enabling more sustainable decatising was actually introduced at the beginning of 2000 – long before finishing customers demanded machinery with reduced environmental footprints or urgent solutions for energy-saving needs.

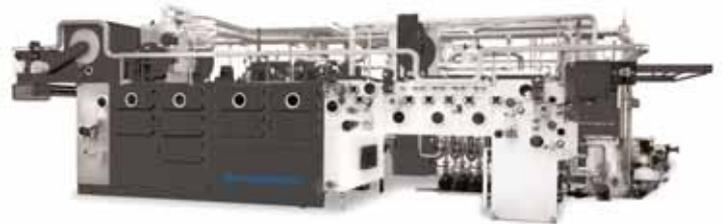
Less steam, less energy

The Universa fabric relaxing machine can be used wherever relaxing, shrinking and bulking effects are required. It has wide application in different finishing fields – from wool to synthetic fabrics. Universa was designed to drastically reduce steam consumption. Tests prove that 30% less steam is needed compared to traditional technology. Conclusively, the machine needs 30% less energy – while achieving the expected quality results.

Recycling and closed loops

Nova has been a success for the past 50 years and is still the most eco-friendly solvent scouring machine – and the ideal alternative to traditional water scouring for the washing of synthetic fabrics. The technology has been continuously improved and therefore it facilitates excellent cleaning performance on various materials. Most of all, Nova convinces ecologically-sensitive finishers by its mastery of recycling. The machine recycles more than 99% of the chemicals used in the process.

Traditional scouring machines need a critical amount of water and detergents, which then must be treated as effluent. They also effect a relatively low level of oil elimination from the fabric. Nova solvent-based scouring is eco-friendly, as it works with a closed loop system in which air and solvent are properly treated and recycled. The fact that it takes 10 times less energy to dry solvent than to dry the same amount of



water is an additional environmental plus for Nova. Furthermore, it almost totally removes the oil contained in the fabric, so that no polluted fumes are released in the subsequent thermic processes (heat-setting).

Compas-sustainable prime example

Sperotto Rimar's Compas open-width compacting and finishing machine for knitted and woven fabrics uses an indirect water-cooling system to reduce the compacting belt temperature. With this system, the water is recovered by passing it through a chiller to keep its temperature at the right level. This technology can save about three cubic meters per hour. This water, totally unpolluted, can be continuously recovered and re-used in the machine. Traditional technology uses nozzles to spray water on the belt surface. The disadvantage of this is that the water is then discharged into the drain, contaminated with fluff and other products contained in the treated fabric.

Another feature enables a minimal environmental footprint through technology-based process optimization. Chemicals used before the dry finishing process are typically softeners or resins to enhance the final appearance and touch of the fabric. These are then transferred to the final garment. It is possible to reduce significantly the level of such chemicals, since the machine partially compensates for the effect of these chemicals. Thanks to its unique compacting method, Compas imparts a silky touch, only partly attributable to the softeners used, while mainly deriving from the special materials in the machine design.

Natural stretch is usually obtained by inserting elastane (a synthetic elastic yarn) during the weaving phase. The elastane itself, however, is difficult to deteriorate. Compas ensures the same degree of elasticity but with a final product that is 100% 'natural'. Thanks to technology, saving the environment no longer means end-users have to compromise on the touch and feel of fabrics.

Sperotto Rimar inside

Know-how and experience – with a creative and successful development team – can make a big difference to finishing machinery design. Underpinning this, Sperotto Rimar always chooses machine components from latest-generation technology, aiming to save as much energy as possible. For example, the motors installed are of the IE 3 type.

The focus of Sperotto Rimaris to develop a range of effective solutions, which make the most of textiles, in a

sustainable way. Continuous technological innovations result in a smaller environmental footprint without compromising final fabric quality.

Sperotto Rimar on-site! Experts offer first-hand information about sustainable solutions for finishers at upcoming India ITME. Sperotto Rimar (member of Santex Rimar Group) welcomes visitors at the Group's Booth H5F5 in Hall 5 at IEML in Greater Noida, Uttar Pradesh.

SHIMA SEIKI will showcase the newest knitting innovations for shaping and Wholegarment®

Leading flat knitting solutions provider Shima Seiki Mfg., Ltd. of Wakayama, Japan will participate in the India ITME 2022 exhibition to be held at India Expo Centre & Mart in Greater Noida in December. India's textile industry is seeing rapid growth in both the domestic market and demand for exports. SHIMA SEIKI plans to show the latest sustainable solutions that can keep up with this growth, through its exhibit of the latest in knitting technology for both Wholegarment® and shaping, as well as the latest in DX solutions utilizing virtual sampling.

SHIMA SEIKI will exhibit proposals in seam-free Wholegarment® knitting technology that offers an alternative to labor-intensive manufacturing in India and other international markets. Featured is the MACH2®XS Wholegarment® knitting machine with original SlideNeedle™ on four needle beds and spring-loaded moveable sinker system supporting a wide range of high-quality Wholegarment® knitting in all needles. The range of usable yarn and material has increased as well, thanks to i-DSCS+DTC® as standard equipment, important to a market with a solid spinning industry.

Meanwhile The N.SVR®123SP computerized knitting machine features a special loop presser bed, capable of producing hybrid inlay fabrics with both knit and weave characteristics. Demand for such novel fabrics is very high across a wide range of applications, from fashion apparel to sportswear, innerwear, outerwear, uniforms and other functional clothing, as well as home furnishing and technical textiles. N.SVR®123SP at India ITME will feature the special i-Plating® option, capable of alternating yarn colors in any pattern, producing jacquard-like designs using plain jersey stitch for even greater diversity in knit design.

Demonstrations will be performed on Shima Seiki's SDS®-ONE APEX4 design system. At the core of the company's "Total Fashion System" concept, SDS®-ONE APEX4 provides comprehensive support throughout the production supply chain, integrating production into one smooth and efficient workflow from yarn development, product planning and design, to machine programming, production and even sales promotion. Especially effective is the way SDS®-ONE APEX4 improves on the product planning and design evaluation process by replacing physical samples with digital prototypes. Based on photo-realistic simulations, these virtual samples minimize the need for actual sample-making, realizing significant savings in time, cost and material and contributing to sustainable manufacturing.



APEXFiz® is subscription-based design software that maintains the proven functions that have made SDS®-ONE APEX series design systems so popular with fashion designers. Installed on personal computers, those strengths are now enhanced with the added versatility to adapt to different work styles and business environments including teleworking and telecommuting. APEXFiz® software supports the creative side of fashion from planning and design to colorway evaluation, realistic fabric simulation and 3D virtual sampling. Virtual samples are accurate enough to be used effectively as prototypes, replacing physical sampling and consequently reducing time, cost and material that otherwise go to waste. APEXFiz® thereby helps to realize sustainability and digitally transform the fashion supply chain. APEXFiz® is available in 5 different product variations that can be selected according to the customer's needs, from APEXFiz® Design Jr. to APEXFiz® Design Pro.

Terrot to exhibit highly flexible and productive I3P196 Interlock, Fine Rib Machine

2022 is promising to become a very special year in the long and extraordinary history of Terrot. Not only the company celebrates its 160th anniversary, it is also expecting to produce more machines under Terrot and the recently incorporated Pilotelli brand, at its headquarter in Chemnitz, Saxony as at any time before. After a severe crisis in 2019/2020 amplified by an early hit of the Covid-19 pandemic and a growth of almost 50% in 2021, 2022 is looking so far like a comparably successful year, with an order book growth beyond 500 machines in the first 9 months and a pipeline amounting to almost the same volume, providing projects for 2023 and 2024.

Whereas 2020 was dominated by single jersey machines, 2021 and the current year are mainly characterized by high demand in home textiles, mattresses and the sportswear sector, for both mechanical and electronical machines. It is important to point out, that all this has been achieved despite problems with supply chains leading to delays, highest prices for commodities, raw materials and parts, in particular electronic like semiconductors, as well as transportation and lately sky rocketing energy costs that stretched us as probably many others to the breaking point. All this would not have been possible without our staff that invests everyday all their passion in catering for the needs of our sophisticated clients and of course continuously strong demand for many blockbuster machines offering unique structure options, like our wide-ranging I3P family. But most of all we would like to thank world's leading textile companies and garment producers who put trust in the highest quality, productivity and flexibility of our machines. We very much value the partnerships that have evolved out of client supplier relations over the years and decades.

From standardized machines for serial requirements to highly customize for special designs and structures, we therefore offer the widest range of machine types for high-quality knitted fabrics in a variety of gauges and realize a truly flexible customer-centric approach. Moreover our machines easily fit into smart factories by providing a fully interoperable "network user interface". A remote service possibility and a newly developed trouble shooting assistance software mark our progress into the digitized era.

Terrot is successfully selling machines into more than 100 countries around the world. A network of over 50 qualified sales agencies guarantees the close contact to the customers and supports them by servicing on the existing as well as implementing and installing new machines and responding to their spare part needs. Our main markets are India, Uzbekistan and Turkey. But we also distribute a large quantity of machines to Europe, Asia and Latin America which guarantees a well-balanced sales performance and avoids cluster risks.

New developments in the single and double jersey sector, consisting of premium high efficiency machines with outstanding performance, maintenance and operating cost KPI's as well as general improvements on our existing equipment are on the way. With new investments in machinery, software and process optimization in the production and the set-up of a new R&D entity that is aiming to serve as an agile hub for co-operations with innovative companies and research institutes around the world.



By this we are looking forward to exploring new developments in areas of robotics, environmental technologies or textile software and are embracing limitless opportunities lying ahead of us. With our clients we aim to explore the new horizons that this industry offers in the decades to come.

We are very much looking forward to presenting our products and services again to a wider audience at the INDIA ITME. Together with Universal MEP Projects & Engineering Services Limited we are looking forward to seeing you at our booth A8, hall 1.

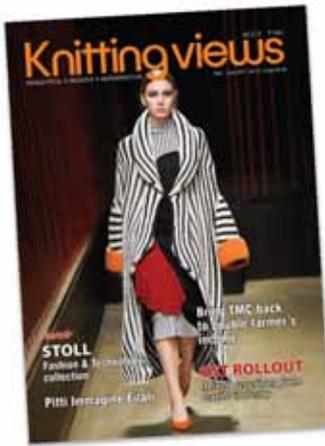
Universal MEP Projects & Engineering Services Limited (Universal; former Voltas Ltd.) is our trusted partner und sales agent for the conception, implementation and after-sales support of circular knitting machinery in India. With the local presence in India, you can easily get in touch with Universal for any matter concerning our Terrot and Pilotelli machines as well as spare parts. Please find below the contact details.

At INDIA ITME we will exhibit a highly flexible and productive I3P196 interlock / fine rib machine that has been much demanded globally in the past years and after being tested by reputable clients of ours is much likely to become also a success story in your market.

I3P 196 – advantages at a glance

- Made in Germany – maximum efficiency and precision
- 3.2 feeds per inch and a maximum speed factor of 1,050 guarantee maximum productivity
- Precise adjustment of delayed or synchronized timing with an impressing timing delay up to 4 mm for dimensionally stable and durable fabrics
- Great flexibility and large pattern range with up to 4 needle tracks in cylinder and 2 needle tracks in dial cam
- High quality elastane plating in all variations
- Use of easily accessible and cost-effective needles
- Well-equipped for different market requirements with different conversion kits for spacer and fine gauge fabrics
- Quick and easy gauge exchange with minimal effort – little time and manpower

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■ A Sustainable textile printing process enabled by ColorJet Pigment Solution

For over a decade ColorJet Group has committed itself to Sustainability of our ecosystem. All Colorjet new products are created through the prism of sustainability. COLORJET GROUP is all set to unveil its sustainable Pigment printing solution –EARTH SERIES at India ITME. ColorJet EARTH Series is an advance sustainable printing solution in Digital textile printing segment. This new process does not require additional equipment for pre and post treatment. By way of eliminating pre & post treatment, this has led to huge saving of water and energy, and provides competitive edge in sustainable direct-to-fabric printing category.

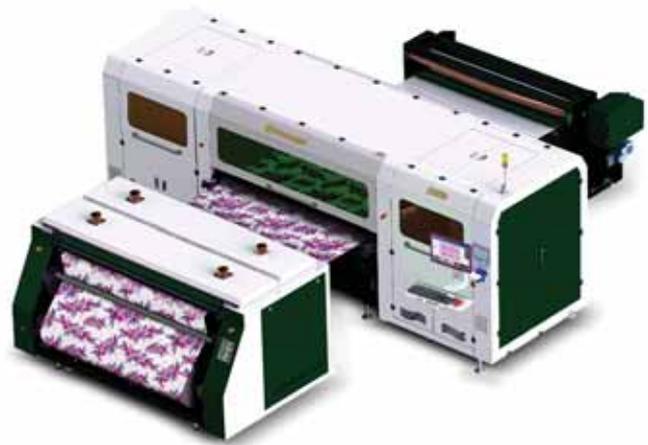
ColorJet specialized Pigment Ink with binder offers greener solution by way of eliminating process in digital textile printing. Polymerisation at 160-degree after printing provides excellent color fastness and print quality with exceptional production capacity of 2500 linear meter/day.

The Earth series comes with 3 models - 32, 16 and 8 inkjet powered by Konica Minolta print heads, with the combination of ColorJet' s 3 new technology – Kiloton, Purge Plus, and Osci Plus.

Purge Plus™ technology ensures removal of air bubbles from print heads and helps in saving almost 3-4% of total ink used in printing process.

Kiloton™ has increased the print head life to a considerable extent of Up to 3 years.

Osci plus precise rollers for efficient tension control and smooth feeding of the fabric irrespective of any fabric helps to accommodate almost every kind of fabric for direct printing



Inspired by the success of pigment solutions, operating successfully across the globe including India, Germany, Brazil, Vietnam, Pakistan and at other leading textile clusters.

ColorJet is now all set to lead the sustainable Pigment printing category with its new futuristic Earth series. The Colorjet Earth Series will provide sustainable print solution in textiles to Fashion apparels, kids wear, home furnishing and many other segments

Visitors from Textile Printing segment will have the opportunity to see the live Demonstration of this product at INDIA ITME Starting from 08 - 13 December at India expo center & mart, Hall No. 5, Booth No. H5F3G4.

■ Emtec to present TSA Tactile Sensation Analyzer

Germany's emtec Electronic GmbH will present its TSA Tactile Sensation Analyzer at the India International Textile Machinery Expo from December 8-13, 2022 at the India Exposition Mart in Noida. The TSA measures softness, smoothness, in-plane stiffness, as well as the deformation and recovery characteristics of a material sample.

Compact enough to fit in a suitcase, yet accurate measuring results: The TSA Tactile Sensation Analyzer from emtec Electronic delivers precise data on how fabrics feel to the touch. As a portable, innovative lab device it provides a quick return-on-investment, proving especially useful for on-the-go troubleshooting and quality assurance. Weighing less than 20 kg, the TSA allows textile manufactures to evaluate the haptic feel of their products in a fraction of the time needed for hand-panel testing or other factory equipment.



For instance: Traditional hand-panel testing has long been held as the standard for evaluating fabric comfort. The drawbacks of this method include the time and cost factors. Also, because the results are subjective, many tests are often needed to arrive at a reproducible

value. In addition, human testers are unable to reliably distinguish between haptic traits such as softness and smoothness and can only arrive at an overall impression of the material's haptic quality. The TSA, on the other hand, provides a numerical value for a material's hand-feel, also known as its handle, along the distinct haptic parameters. This makes it easier for textile manufacturers to pinpoint why one product is preferred over another: Is it because it is softer, smoother, or more flexible? Without concrete data, the answer is anyone's guess.

emtec Electronic will be attending the International Textile Machinery Expo in Greater Noida, India to demonstrate the operation and explain the measuring principle behind the device. Visitors are invited to stop by and speak to Global Sales Manager UlliKasten at Booth Nr. H7AA10 in the Processing Hall for more details.

Finishing Machines Product Range by RUNIAN

Lianyungang Runian Industrial Co. Ltd is a manufacturer specializing in textile finishing machines. Over the years, Runian Machine has formed five series of products: polishing series, raising series, brushing series, combined polishing-shearing series and embossing series. Five series include over 30 types of products. In India the agent of RUNIAN machines is Voltas.

“Runian” brand belongs to Lianyungang Runian Industrial Co. Ltd, China, who has the expertise with scientific R & D and over the years of experience in manufacturing of high quality standard specialised finishing equipments for fabrics. Their product range comprises of standard and tailor made solution for fabrics are: Raising, Brushing, Polishing, Shearing, Pressing and Sueding etc. to meet the customer’s expectation and demand.

Runian Finishing M/Cs Product Range

Brushing Machine

There are three types of brushing machine.

- Table brushing (2roller and 4 roller)
- Vertical brushing
- High speed brushing machine

Table Brushing: - Table brushing is the basic brushing machine and widely used for different processes, like mink; cloudy and high pile fabrics etc. Table brushing machine come with two type, two rollers and four rollers brushing machine.

Vertical Brushing: - Vertical brushing machine is used same as like table brushing machine but working principal of machine is different. Vertical brushing machine mainly used for low GSM fabric.

High Speed Brushing: - High speed brushing machine is used for low Pile & GSM fabric, like flannel, cloudy, super soft fabrics. High speed brushing machine has 24 brushing rolls. These 24 rolls are mounted on the circumference of brushing drum and alternatively rotate in clockwise and anti clock wise direction. Working speed of high speed brushing machine is high and production is more. In high speed brushing machine two rolls move clockwise and other two move in anticlock wise direction for better brushing effect.

Raising Machine: - Depending upon working drive we can specify raising machines into two types one is gear type raising machine and one is belt type raising machines. In raising machine 24 or 36 roller were installed on the circumference of the drum and rotates for raising effects.

- **Belt Type Raising Machine:-** Belt type raising machine is mainly used for fabric which need less harsh effect like mink, flannel, cloudy and other super soft fabrics. In belt type raising machines all 24 roller rotate in one direction and do the raising effect. Belt type raising machine is of two type one is 24 roller raising machine and one is 36 roller raising machines. 24 roller raising machine is used for heavy GSM fabric like mink, cloudy etc. 36 roller raising machine is used for less GSM fabric like flannel, super soft etc.
- **Gear Type Raising Machine:-** Gear Type raising machine is widely used for knitted fabric like polar fleece, three thread fleece, and other fabrics. Fillets in this type of raising are of 2 types, i.e., straight and angular, aligned in different directions giving the fabric, pile and counter-pile action. Gear



type machine come with two different workings one is manual and another one is PLC controlled machine. In manual control machine to change speed of pile and counterpile rolls we need to change the gear of rolls but in PLC control machine these speeds can be adjusted by PLC and Inverters.

Polishing Machine / Super Finishing Machine:-

Polishing is the process of creating a smooth and shiny surface on the fabric by rubbing it mechanically in presence of heat, leaving a surface with a significant specular reflection. Polishing machines are of three type with three type of heating systems i.e Gas, Thermic oil & Electrical heating systems.

Type of polishing machine

- **Single roller:** - In single roller machine we have one polishing roller with 415mm dia with six or eight groves and two touches for fabric surface. Single roller polishing machine is the conventional polishing machine.
- **Double roller:** - Double roller machine comes with two polishing roller and two touch. One polishing roller has one fabric touch. Dia of polising roller is 415mm and with 8 groves. This is the latest technology for the polishing machines. It is used for all kind fabric.
- **Double roller triple touch:** - In this machine first polishing roller has two fabric touch and second polishing roller has single touch. This machine is used very less as polishing effect is not that much good as compare to RN420H. in this machine first polishing roller is of 370mm and another is of 415mm. This machine is recommended where in one machine we need to polish both side of fabric front as well as back side. In flannel final finishing we can use this machine.

Fine Cut Shearing Machine:-This machine is of used for low GSM fabric. In this machine we have one shearing head with one ladger blade and one spiral blade only. This is used for flannel, super soft and other fabrics.

Combined Polish-Shearing Machine/Shearing Machine:-This machine is used to make fabric even and smooth for final finishing. These series are specially used for heavy blanket qualities like Mink, Cloudy, etc. Depending upon type of fabric we can decide number of shear. For mink 24 shears are required whereas for high pile fabric we need 18 or 15 shears.

▣ Sedo Treepoint to showcase Smart and Sustainable Solutions

Sedo Treepoint is part of INDIA ITME, which will be held at India Expo Centre & Mart in Greater Noida from December 08-13, 2022. The global trend is towards saving energy, increasing efficiency, and delivering high quality while reducing costs. Therefore, intelligent solutions are needed to help identify the current state and reduce resource requirements. In hall 1 at booth B5, Sedo Treepoint presents its products around the Smart Factory and intelligent manufacturing for dyeing and finishing plants.

Sedo Treepoint provides controller and software solutions which are perfectly matched to each other. The communication between the systems runs smoothly and contributes to a Smart Factory.

The Sedomat 6000/8000 controller Series comes in four different variants and is the ideal choice for every type of dyeing and finishing machines. Through the high number of internal and external in- and outputs it can be adapted easily. The new series is high flexible and offers different interface options like CANopen, Profibus DP and MODBUS RTU. To improve the communication between different systems, OPC UA and MQTT interfaces are used for data communication.

SedoMaster is the core of the production shop floor. Central production planning, control, monitoring, and reporting become available. It is a powerful tool for all key operators and the management due to the connection of all dyeing and finishing machines. The Reporting tool gives information on productivity, resource costs and OEE. SedoMaster also links all periphery systems like dispensers, dissolvers, or ERP system.

ColorMaster is an expert system for recipe management and color measurement. The Windows based software calculates



the best and most cost-effective recipe. In laboratory as well as in production it offers the ideal treatment and correct dye program selection. Colorimetric control within different production steps and calculation of additions for addition treatments supplement its functionality. These optimized workflows influence and optimize the consumption of the resources used.

EnergyMaster collects the energy consumption of the whole factory and supports in optimizing the energy use. E. g. electricity, gas, compressed air, water, and steam consumption are target for further analysis. Together with the production data, reports can show the usage per meter, kg, etc. Optimization results in a better carbon footprint and saves a lot of costs.

Sedo Treepoint systems offer many innovative features for your Smart Factory and together with intelligent software solutions the complete textile supply chain becomes an intelligent production. All solutions help to improve sustainability and reduce costs while increasing productivity and efficiency.

▣ Integrated solutions for Ring and Compact Spinning by Rieter

Rieter will present the latest innovations in its systems, components and services at the upcoming ITME 2022 in Uttar Pradesh, India, from December 8-13, 2022. The company's technology portfolio is designed to help customers succeed in markets being shaped by rising energy and raw material costs.

The Autoconer X6 automatic winding machine serves as the final quality assurance in the ring and compact spinning process and is key to the performance of the subsequent process stages. The Multilink system offers maximum flexibility to handle different types of yarns.

The latest OZ1 and OZ2 splicers provide an optimum splice quality based on an open prism. With only two prisms, spinning mills can splice the entire spectrum of cotton yarns as well as blends. The splicers are also used for cotton-based elastic core yarns in combination with the Elastosplicer. The



splice zone exhibits an impressive elasticity in the fabric.

The Rieter compacting devices – COMPACT apron, COMPACT easy and COMPACT drum – allow spinning mills to change quickly between ring and compact yarns and the ROBO spin piecing robot reduces personnel requirements in the ring spinning section by 50%.

Rieter also provides solutions for the integration of recycled raw materials into yarns. Both rotor and ring yarns can be produced with a considerable amount of mechanically recycled fibres.

SSM will present its NEO-FD assembly-winding machine for precision wound packages for twisting. The machine features an auto-doffing option and an online back-pressure system for low and high package densities. With an ergonomic design and proven technology, the machine cuts maintenance and service costs to a minimum.

Temco's CoolFlow texturing discs offer longer lifetime thanks to a brand-new geometry and the latest polyurethane technology. The texturing discs now generate a disc surface that operates at a lower temperature, resulting in slower ageing and abrasion. Further benefits are more stable yarn quality, higher productivity, and an overall process cost reduction.

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RAPID Dyeing & Finishing Equipments with highest technology

Xiamen Rapid Precion Machinery Co. Ltd, brand name **RAPID**, is a Taiwanese management company established in 1979 in Taiwan, moved in 2006 to Xiamen, China (Formerly known as Labortex Co. Ltd) with their production facility. Their products are popular across the globe with their own design & manufacturing with CE certification for their major product range, ISO 9001:2008 certification and HTC (High Technology Company) award in China. In India Rapid machines agent is Voltas.

Laboratory Dyeing Machine (Eco Dyer) - Model Eco-24/ Eco-18/Eco-8 (Touch Screen Control)

ECO DYER is an electric conducting type laboratory dyeing machine which offers not only advantages of a Glycerin type dyeing machine, but also provides features of an infrared type dyeing machine, the new design provides improvements on the two conventional designs.

Special features:

- Using newest heat-conducting technology, to avoid uneven heating for each beaker.
- Special designed axial type rotary system provides 360-degree rotation, allow users to achieve leveling dyeing results.
- No fume pollution, and Glycerin free, Pleasant working environment is assured.
- Lowest energy consumption, not only save about 50% electricity cost compare to glycerin type dyeing unit, but also cut off the expense on glycerin and water
- Different amount of dye liquor can be loaded in each pot in the same batch
- During the run of dyeing process, pots can be individually loaded or unloaded without interruption of temperature.
- Comparing to Infra-red heating type dyeing machines, no sensor pots and lamps required, no more maintenance and replacement problem.
- Dual blower design air cooling system, no water piping is required.
- The rotary disc has an infinitely variable drive.
- Not only dye pot, but also pot position is numbered to avoid operating errors. Dye pots can be easily loaded and unloaded from the rotary drum. Furthermore, the shell is equipped with a sight glass for easy observation of pot motion.
- Dye pots are made of stainless steel 316L, and are produced by pressing, no welding spots or cracks exist, chemical resistance and perfect dyeing are guaranteed.
- To modernize laboratory by installing ECO DYER with modernized appearance, attractive laboratory is assured.
- Lowest Power Consumption - Only 4.5KW required
- No Water Required and Pollution Free
- Easy to Load Dye Pot • Even Dyeing Result
- Chemical Addition • User-friendly Interface and Operation
- High-Quality Material Made • Complete Safety Measures
- Free maintenance

KG DYER High temperature sample dyeing machine - Model ZY-1

KG DYER, high temperature sample dyeing machine, model ZY-1 is a patented Lab machine with special design of mechanism, flow control, heating technology and temperature management, simple and easy to operate. This machine can be used as QC apparatus to inspect any defects such as fabric dyeing barrier, dyeing spot, etc. which may occur after dyeing process,



also suitable for all relevant dyeing applications in which the maximum sample weight is up to 1 Kg.

Features:

- Entire machine is made of SUS 304 highly corrosion resistant stainless steel material, and colorful painting on the surface of machine body.
- Pressure resistance drum is adopted. Textile sample inside the drum moves evenly and regularly with dye solution. Even dyeing results can be achieved even under low liquor ratio.
- Tension-free dyeing, no transportation wheels required
- Textile sample can be thoroughly soaked with dye solution in the drum
- Magnetic type heating technology, high efficiency and low power consumption.
- Air cooling system, no water is required
- Max. temperature rise rate 3.0°C/min
- Applicable temperature range RT~135°C
- Precision of temperature control $\pm 0.5^{\circ}\text{C}$
- The lowest liquor ratio possible - 1:8
- Max. sample weight 1Kg
- 200 programs * 20 steps editable
- Intelligent software recovers the current program after temporary power cut-off.
- Overheat protection for safety concerns.
- Power connection to 220V x1PHx 50/60 Hz x 3.0 KW

Laboratory Hot Air Drying Oven - Model R-1 - To air-dry samples after centrifuging, a basic equipment for a laboratory. Stainless steel interior construction.

Automatic Washing Machine - Model AW-12 - Automatic washing machine is indispensable lab equipment used for carrying out post processing such as washing, scoring and soaping for dyed yarn, fabric or any textile samples at laboratories.

Users just place textile samples into stainless steel made washing pots, then solution adding, washing and draining etc., can be automatically processed by a programmable controller. Sample and the solution can be gently agitated by air turbulence introduced from external, which means manual stirring is no longer required. Thanks to the full automation design, the reproducibility of post-processing between production and Lab is ensured. The entire machine is all made of high-grade corrosion-resistant stainless steel, with colorful painting on the surface of machine body.

Witness the 'Present' & 'Future' of textile printing at Stovec Industries (SPGPrints Group)

From 8th to 13th Dec'22, India's largest international textile machinery show India-ITME is going to be held at Greater Noida, India and Stovec, which is a subsidiary of SPGPrints B.V., The Netherlands, is ready to showcase the latest innovations in both conventional and digital textile printing for the fashion and the home-furnishing industry. Looking for either a conventional or digital textile printing system, SPGPrints|Stovec is the total solution provider for all your textile printing needs. We welcome your gracious presence at our booth at ITME in Hall no 3 at Stall no. H3C5

A new brand direction: SPGPrints|Stovec shall unveil its new global brand ambition with a new slogan: "Printing tomorrow." The group's new brand strategy illustrates our goal to co-create a sustainable future together with our customers. The new look & feel of the SPGPrints brand, products and website illustrates what we stand for. This is also reflected in our new naming scheme of our products: inspired by nature and as colorful as nature can be.

"DART" – a strategic transitioning to digital textile printing
SPGPrints|Stovec takes great pride in introducing our customers to new robust entry level digital printer - 'DART' in ITME. It is a perfect solution for start-ups to fulfill their need for a medium speed printer. With fast turnarounds and full application support DART is the optimal solution for your entry into digital printing. The print engine of DART has Konica Minolta print heads that enables customers to print on demand at a top quality of 720 x 1080 dpi, using 8 colors. In business for more than 7 decades, SPGPrints|Stovec has continued its commitment towards developing solutions that are based on tomorrow's needs, e highly efficient and sustainable at the same time.

Rose, Jasmine, and Magnolia: three new digital printers
SPGPrints|Stovec would like to introduce both our loyal customers as well as newly interested people to the 3 new models in the digital product lines - Rose, Jasmine, and Magnolia, that focuses on maximum productivity at optimal print resolution.

75 years and steps ahead with latest innovation in Rotary Textile Printing Machine –"Teak"

We are proud that we have come a long way since SPGPrints (formerly known as Stork Prints B.V.) was founded in 1947 and its Indian Subsidiary "Stovec Industries" limited in 1972. Through the years our industrial roots have proven to be a solid platform for countless inspired innovations that have put us on the map as a global market leader for textile rotary screen printing technology. As a 'Global Competence Centre' for rotary printing in SPGPrints group, we are ready to launch – Teak, the latest 2.45 meters wide rotary printing machine with Universal Repeat during ITME. Teak is a fine example of modular construction that will open a wide-spectrum of applications for our customers WORLDWIDE and allow them to print on woven and knitted fabrics for fashion and home textile world. Any repeat size from 640 to 1008 mm can be printed in the same machine without any change of parts.

Showcasing broad range of Rotary Screens

In rotary screen textile printing, the type of screen you use is of vital importance for the quality of your output. Our rotary



screens make the difference in your Textile printing process; for varied designs or application, there's a suitable rotary screen solution. Please do visit our booth to understand more about our innovative screen technologies — Ortascree™ and Randomscreen® Eco".

Achieve more with our Digital printer Inks that give the edge in quality, value, and design creativity.

We have created three different performance levels for our most used inks that you can mix and match to suit your digital textile printing applications: Pasha, Morpho and Alcon series. These are compatible with all major industrial print heads and fabrics.

Diverse possibilities for your laser printing challenges
Having Laser Engraving/Exposing technology, Conventional pre-print equipment, and CAD software also in our portfolio, SPGPrints® empower customers worldwide at all stages of the printing process. That is the global impact of a global player. We are creating a path to a sustainable future for our customers and wish to welcome you at our booth in ITME'22, Greater Noida!

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Saurer to showcase Autoairo Air-Spinning Machine

Saurer, the Switzerland-based solution provider for spinning and twisting machines, will be present at the India ITME 2022 from December 8-13 in New Delhi in booth 10C7E12. The highlight will be its air-jet spinning machine Autoairo, to be exhibited for the first time in India.

Saurer's spinning and twisting machines are renowned for their energy saving features, automation, and digitalisation solutions. Saurer machines enable the circular economy in textiles and are the leaders in processing recycled textile materials.

With the Autoairo, Saurer offers five different spinning systems: ring, compact, worsted, rotor, and air spinning systems. Exhibits to be presented at the booth are the new Autoairo air-spinning machine, the Autospeed roving frame, the Autocoro and BD rotor spinning units, the FusionTwister for two-for-one twisting, as well as exhibits of Texparts and Fibrevision quality monitoring.

The right combination of Saurer's blow room and carding machinery ensures excellent fibreutilisation and sliver quality, thus increasing the efficiency of the spinning process and improving the quality of yarn. The new Autocard was developed to create further value in the fibre preparation chain, Saurer said.

The Autoairo sets new benchmarks for air spinning. Saurer has combined its most advanced automation solutions with proven technology to create an air-spinning machine with unique properties. The Autoairo features autonomous spinning positions with automation per spinning unit for more productivity and integrated intelligence. The exhibited Autoairo will remain in India to conduct customer trials. Belairo, the new air-spun yarn impresses with low hairiness and high pilling resistance.

The Autocoro is the market and technology leader which revolutionised automatic rotor-spinning technology and opened the door to more productivity, flexibility, and sustainability for customers worldwide. In just 10 years, Saurer installed 1 million Autocoro spinning positions with individual drive technology and energy saving features. The BD 7 semi-automated rotor spinning machine is powered by the technologies of Autocoro. With the patented digital piecing technology, DigiPiecing, and take-up speeds of up to 230 m/min, the BD 7 improves yarn quality and productivity for spinning mills.

The use of the Autospeed roving frame with automatic doffer ensures that spinning mills do not have to rely on skilled workers, and simultaneously increases the quality of the roving. The Autospeed roving frame with up to 240 spindles saves up to 20 per cent of energy compared with the previous model, while doffing takes less than 2 minutes. Also, in action at the ITME exhibition, customers can see the Autospeed in combination with the bobbin transport system and Roweclean, the automatic tube cleaner.

The ZR 72XL and ZI 72XL are two productive ring and compact-spinning machines. They set the global benchmarks for intelligent spinning, low energy consumption, user friendliness, and flexible automation solutions.

Saurer's Texparts product line offers high quality components for the textile industry including drafting systems and spindles, spinning rings, and travellers. The new double elastic spindle,



Eshape, has a reduced wharf diameter and is based on CS 1 S. Outstanding running properties up to 30,000 rpm and about 6 per cent energy savings are the key performance factors. Eshape, combined with the best system for spinning without underwinding, Spinnfinity, is the perfect fit for automated and efficient ring spinning.

At the ITME exhibition, Saurer will also show the two-for-one twisting machine FusionTwister, which offers high efficiency combined with the excellent quality of the cross-wound delivery packages produced. Up to 15 per cent of energy can be saved with the FusionTwister while increasing the winding speed by 10 per cent: This result was reported by an Indian customer. Consistent high yarn and package quality is a result of its robust machine construction and optimised yarn guiding elements, which consist of yarn-friendly ceramics or have plasma-coated surfaces for low friction and longevity.

Saurer's twisting machines are as flexible as the market demands. The direct cabling machine, CableCorder CC5, for tire cord and industrial yarns, features a new spindle gauge 400 with up to 200 spindles, making it a true space saver. Its Cord Regulator technology ensures equal lengths of the individual yarns and thus high cord quality. Thanks to the balloon reduction technology developed by Saurer, the same, smallest possible balloon diameter can be set on every spindle – regardless of the titre. Energy consumption is thus kept to a minimum on the CC5.

For all synthetic continuous filament yarns, Saurer Fibrevision's online quality monitoring devices are well established in the market. Fibrevision products serve all areas of the industry: Fraytec FV2/ Unitens / FibreTQS are multi-parameter quality monitoring systems that can be used in filament spinning (POY, FDY, BCF, T+I), draw texturing (DTY) as well as in cabling, twisting, and elastomer production. Single and multi-threadline sensors assure customers of the quality of their production.

Saurer enables spinning mills to process a wide range of recycled and regenerated fibres in their production. The Saurer rotor spinning machines are leaders in the processing of recycled fibres. The Saurer textile technology laboratory continuously assists customers in optimising their yarn production and yarn quality, especially for recycled fibres, the release added.

With more than 160 years of experience, Saurer has always been committed to advancing the textile industry, integrating high-end equipment manufacturing with modern information technology to provide complete solutions for the smart spinning factory.

Computerized Jacquard Flat Bed Knitting Machine by Kauo Heng

Kauo Heng Precision Machinery Co., LTD. established in 1972, is an up and coming company focused on manufacturing high quality and efficient computerized flat-knitting machines. In line with the consistent sincere letter and steady and sure management idea, Kauo Heng Company improves the professional technique and R&D constantly. Kauo Heng Co. strives to enhance the quality of all its products, while maintaining quality in the highest standards. A top priority of Kauo Heng Co. is to fulfill the different demands and gain the support of our new and repeat customers. It is because of our customers that Kauo Heng Co. looks forward to create “Win-Win” situations for both our customers and the company itself.. In India the agent of Kauo Heng machines is Narinder International. Narinder International offers a full support for these machines, from installation, training, repair and after sale service.

Computerized Jacquard Flat Bed Knitting Machine (no transfer)

This machine is KauoHeng entry flat bed knitting machine for production of jacquard trimmings.

This machine is available in 2 main configurations:



- 1 Carriage single system on a 40 inches bed.
- 2 Single system carriages on a 60 or 80 inches bed

Features;

- Computerized Control: LCD display easy to read, knit design and programming are directly operated with keyboard
- Segment Needle Bed: Designed for high speed and easy replacement in the event of accidental damage, also equipped shock sensor stop motion device
- Tandem System: Double system or tandem two single system with a variably adjustable stroke carriages
- Top Tension: Newly electronic top tension easy to thread the yarn through

Kauo Heng KH-212HP is for Trimming & Panel



Computerized jacquard flat bed knitting machine with transfer. This is Kauo Heng ultimate flat bed knitting machine for production of jacquard, intarsia trimmings.

This machine is available in 2 main configurations:

- 1 Carriage single system on a 40 inches bed.
- 2 Single system carriages on a 60 or 80 inches bed.

Features:

- LCD Colour touch screen
- Single System: Single system with a variably adjustable stroke carriage
- Tandem System: Double system or tandem two single systems with variably adjustable stroke carriages

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Single Jersey Knitting Machine by Zhangzhou Kaixing

Zhangzhou Kaixing Machine Co., LTD. specializes in the designing and manufacturing of circular knitting machines which first listed on the stock market in this industry in China. The stock code is 08506.HK. It is located near the Zhangzhou China Merchants Economic and Technological Development Zone on the Southern Xiamen Bay. Kaixing have a team formed by elites from China and Taiwan with professional skills in research and development, sales, services and management, and a complete set of advanced imported processing equipment and perfect testing facility. Kaixing follow the spirit of providing lifetime services with gratitude and will spare no effort to serve customers because we are convinced of the value of mutual trust and public praise. Kaixing will keep meeting your needs, improving ourselves and developing together with you. In India the agent of Kaixing Machines is Narinder International.

FS Series – Single Jersey Knitting Machine

The frame of the machine combines the knitting principal with human engineering, which makes the machine firm and pretty. High quality cast iron is employed for natural aging process, which prevents parts from deforming and provides better quality.

By changing the core parts only, single knitting machines can be transformed into terry machines or a fleece machine, which help improve efficiency and brings about flexibility in knitting. All cams made of imported alloy steel are carved



and ground in the CNC machine, which makes the needle track smooth and the needle durable while machines run at high speed. The streamlined cams are easy to adjust which also makes the needle smooth and stable at high speed.

With a compact structure, the newly designed central stitch system works smoothly and steadily and adjusts fabric weight simply and accurately, which help improve efficiency.

Unique drive system with specially designed dual tracks reduces wear and makes the machine run more smoothly with less barre marks.

F50 Series – Single Jersey Open-width Knitting Machine

Parts and accessories are manufactured by advanced machining center so that the precision and accuracy can be greatly improved.

The heart knitting system: The material of the cam is made through a special

imported heat treatment process. The accessories of the heart adopt the precise positioning by CAD/CAM to ensure that the needle track is smooth enough to adopt various material and textile technologies.

Open-width system: The machine adopts the latest winder system and is equipped with the roller shifting device to ensure the uniform stitch density of fabric. The operation is easy and convenient, which makes full use of cloth by effectively removing creases in cloth caused by common winders.

With a compact structure, the newly designed central stitch system works smoothly and steadily and adjusts fabric weight simply and accurately, which help improve efficiency.

Unique drive system with specially designed dual tracks reduces wear and makes the machine run more smoothly with less barre marks.

Tecnorama to introduce Dyeing Automation Solution

Italy-based dyeing machine manufacturer Tecnorama will be at India ITME 2022 to showcase its latest dyeing automatic solution, the Dos&Dye system. The system is the first and the only one to develop the right recipe for bulk dyeing machines to avoid correction and re-dyeing in production with considerable time and resource savings.

Composed of a Dosorama dispensing machine and a robotised dyeing module, Dos&Dye works independently for 24 hours a day and seven days a week. It automatically performs the entire dye-bath process without any operator



intervention and matches the features complying with Industry 4.0, according by Tecnorama.

Fully integrated in Dos&Dye, the new Dosorama Smart and the Dosorama

Clever laboratory dispensing machines present the innovative Mono-Plunger system maintaining all the features of Dosorama dispensing machines, such as speed of execution, dispensing accuracy, and elimination of contamination typical of the obsolete mono-pipette systems. They have been specifically designed to considerably reduce the need for technical intervention and to guarantee an easy maintenance.

Clients, visitors, and technicians can drop by Tecnorama's agent Kailash Textech Solution - H5 G12 at the event.