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IMPRESSIONS OF ITMA 2023

UPDATE ON FEW INNOVATIONS/LAUNCHES

LAKSHMI MACHINE WORKS (LMW), INDIA

Card LC636 SX



- Smart card LC636 SX with optional features CDS (Card With Drafting System) and Fix-Fil- Can changer arrangement
- Ensures high efficiency and productivity up to 250 kg/hr with consistent quality
- 1.5 meter working width and 36 working flats ensures quality derivable. Highly impressive active carding and cylinder area.
- It's unique design of various technological elements and energy efficient drives, the smart card delivers higher realisation up to 1% with power saving up to 15%
- New patented 120 mm height flats to have constant cylinder & flat setting across the card width.
- Optical sensors installed on four flats to sense the setting between cylinder and flats.

LRJ 90/SX compact ring frame for smart spinning

- LR 90 series is the longest ring frame in the market with maximum spindles up to 2400 with higher mechanical spindle speed up to 30,000 rpm
- Machine gives quality package with 30% improvement in yarn imperfections and classimat H1 faults.

SPINNING



FIGURE 1 CARD LC636 SX



FIGURE 2: LRJ 90/SX



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- Saves power up to 8% with energy efficient low decibel HLED spindles. With improvised pneumafil suction and compact suction overall power saving is 10% including spindles
- Frame occupies lowest footprint and saves up to 8% space as spindle gauge is of 65 mm
- Automation with Ring rail drive, new auto -doffer drive mechanism and suction with AWES

Ring Frame Auto Piecing (RAP)

- Fully automated yarn piecing system for ring spinning machines, receives information on yarn break through YBS (Yarn Break Sensor) and travels to the particular spindle and automatically pieces the yarn instantly. Piecing cycle is 35 seconds
- RAP ensures auto piecing hence reduces dependency on skilled manpower. Package quality remains un-contaminated due to non-handling by the human while piecing

RIETER, SWITZERLAND



J 70 air -jet Spinning Machine

- Delivery speed up to 600 meters/minute
- Each spinning unit is individually automated and thus independent, enabling maximum efficiency & flexibility
- VARIOlot enables to produce up to 4 lots at the same
- Lower conversion cost due to low energy consumption
- Quality monitoring with latest generation of Rieter yarn clearers Q 30A with larger measuring slot

Com4Recycling System

- Production of Ring & Compact yarn from blends of recycled and raw cotton
- Production of Ring and Compact yarns with almost 40% of recycled fibers with high yarn quality
- Presently recycled and raw cotton are still mostly processed on Rotor Spinning machines. The few ring yarns are available in coarse counts and with a recycled cotton content not more than 20%. To produce fine yarns with

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SPINNING

Other Launches by LMW

LR90 SX/SXL
WITHOUT COMPACT

LRJ90 SX/SXL WITH
INBUILT SUCTION
COMPACT
ARRANGEMENT



FIGURE 3: RIETER J 70 AIRJET



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higher proportion of mechanically recycled fibers is major challenge being faced by the industry.

- Optimised their machines from blowroom to winding for processing of recycled cotton blends

TRUETZSCHLER, GERMANY

TC 30i Card

- Achieves higher level of performance & quality with 35% more active flats and 14% extended carding length
- Sophisticated waste suction makes to reuse more than 50% of card waste. Or high- quality waste can be sold to third parties with attractive value
- T-GO automatic gap optimiser for optimal carding gap settings which ensures increased productivity and quality

The TCO 21 XL Comber

- TCO 21 XL with 12 heads maximise the productivity by 50% and saves space by 25% without compromising the sliver quality.
- Operating 12 instead of 8 heads reduces energy consumption by 10% per head, which minimizes conversion cost per kilogram
- Online Noil Monitoring solves major challenges for combing and shows noil changes online

TRUETZSCHLER CARD CLOTHING (TCC), GERMANY

Flat Tops PRECISETOP /MAGNOTOP

- Higher constant yarn qualities are possible. Quick & precise replacement of flat tops
- No need for a flats workshop
- One additional grinding interval = +10% production
- new flat top 45R combines highest quality with the necessary stability for recycling applications

SPINNING



FIGURE 4: TC 30I CARD



FIGURE 5: TCO 21 XL COMBER



FIGURE 6: FLAT TOP 45R



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SUPERTIP ultra- long service life

- Clothings with enormous durability, great variety and highest precision
- Excellent yarn quality
- Significant added value due to longer operation time

STATIONARY FLATS

- NOVOFIX stationary flats are made of exclusively of special steel
- Ensures an even gap between cylinder and stationary flats, allowing optimum opening of the raw material lumps, the reverse side is also precisely machined

MY Wires - Digital Clothing Management

- A digital App to keep track of maintenance schedules for their clothings. Users can choose Truetzschler's recommendations or their own to either grind the clothings or change it

MARZOLI, ITALY



Roving Frame FTM320

- The innovative roving frame with a central headstock and independent double side modules works simultaneously, to allow spinners to increase efficiency by up to 5%

The CMX state-of-the-art 10 combing head comber

- Production capacity up to 115 Kg/hr
- Productivity level 25% higher than previous model
- Energy saving of about 20% KW/Kg

The MDS2 ring frame with Active Flute energy consumption reduction system

- Capable to spin cotton, man-made fiber and blends up to 60 mm. Spindles up to 1824

SWINSOL, SWITZERLAND



Sustainable mechanical compacting system by Swinsol as these units don't need electricity and therefore CO₂ neutral in operation

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SPINNING



FIGURE 7: TCC DEMONSTRATION AT ITMA



FIGURE 8: MARZOLI



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MURATA, JAPAN



FLcone Link Coner

- Commercial launching will be in next 24 months
- High productive winding Machine's concept is "non-stop" winding. Winder does not stop winding even during yarn breakage & splicing.

PROCESS CONER Aicone

- High productivity, energy saving and good package quality are the major features

SAURER



Fusion Twister

- With electronic drive system, inverter, conveyer belt etc.
- No need to change pulley, wheels.

SAVIO, ITALY



PROXIMA Smartconer

- Stands for high-tech winding machine capable of perfectly adopting to demands of connectivity, Industry 4.0 and industrial internet of Things.
- It gives an advantage for high productivity, low energy consumption, premium yarn quality, automation and data connectivity.
- It enables to work faster and reduces manual and repetitive tasks, can increase both efficiencies and overall productivity.
- It is faster, safer with better quality but with less waste, less maintenance and less resource usage.

NESTLING TECHNOLOGIES



Contamination removal machine i-Scan

- I-Scan has separate compartments for colour contamination, dull, non-glittering PP contaminants and glittering PP contaminants with an aim to compete global brands.
- I Spin -Spindle Monitoring and roving stop motion for ring spinning.

SPINNING



FIGURE 9: PROCESS CONER AICONE



FIGURE 10: PROXIMA SMARTCONER



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GROZ-BECKERT

GROZ-BECKERT

Card Clothing - Spinning Carding

- Maintenance free reel clothing with increased service life and low maintenance cost.
- Developed fixed flats with new resistant aluminium profile and revolving tops are also available

TERASPIN



High speed, silent spindle HF S 682

- Max. mechanical speed up to 30,000 rpm
- Min. wharve dia. : 18 mm for ES (Energy Saving) spindles, 18.5 mm for other spindles
- Sphero point foot-step design
- 2 radial bearings for higher radial loads, Dual damping system
- Double elastic bolster construction with grease between the two housings for additional damping
- Very high speed spindle, energy efficient, very low noise, very low vibration.

High speed, silent spindle HF S 681

- Max. mechanical speed up to 25,000 rpm
- Min. wharve dia. : 18 mm for ES (Energy Saving) spindles, 18.5 mm for other spindles
- Sphero point foot-step design
- Two radial bearings for higher radial loads, Shorter blade length
- Stable running at high load, energy efficient, excellent price/performance ratio

High speed, silent & energy saving spindle HF S 562

- Max. mechanical speed up to 30,000 rpm
- Min. wharve dia. : 17 mm for SES (Super Energy Saving) spindles , 17.5 mm for ES spindles
- Sphero point foot-step design
- Two radial bearings for higher radial loads, Dual damping system

SPINNING



FIGURE 11: HF S SERIES



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- Double elastic bolster construction with grease between the two housings for additional damping
- Suitable for yarn count Ne 30s & above
- Very high speed spindle, very low energy consumption, very low noise, very low vibration

Premium ES spindles

- Energy saving spindles are available with HF1/HF100 spindle bearing units with 18 mm wharve diameter are designed to reduce energy consumption significantly.
- The well proven, strong, and sturdy design make the spindles suitable for both manual and auto doffing machines.
- 10.32% power saving with yarn count Ne 18
- 4.29% power saving with yarn count Ne 38
- 8.6% power saving with yarn count Ne 61

Introduced Flexi Weighting Arms of PK S 3200 series

- Addresses major issues attached with pneumatic drafting like saving sizeable recurring operations & maintenance cost as it do not require compressor, pressure hose, etc.
- Suitable for short staple spinning offers maximum flexibility & can be retrofitted onto the existing arrangement of ring frames with existing drafting components.
- Fits on the existing hexagonal tube of a pneumatic drafting system
- Accommodates the existing top rollers, Easy height (pressure) setting
- Consistent reliable loading through helical springs
- Options of 5 different loads on each top roller
- Easily replaceable weighting elements, adjustable front roller offset

SPINNING



FIGURE 12:
PREMIUM ES
SPINDLES

TSUDAKOMA, JAPAN



Zaxneo001 air-jet weaving machine

- Special frame structure, direct gear drive for smooth start-up and advanced beating system.
- Significant increase in working rpm & 30% reduction in vibration than previous model with advance weaving performance.
- Enhancing weft insertion performance with optimized nozzles, valves and control technology.
- The combination with TAP creates significant reduction in air consumption and low pressure in high speed operations.
- High speed weaving by positioning the first heald frame closer to the beating point and further energy saving.
- In-house developed heald frame is highly robust and light and designed for ultra-high-speed operation.

WEAVING



FIGURE 13: ZAXNEO001

PICANOL, BELGIUM



OminiPlus-I Connect Airjet Loom

- The machine was running at highest speed of 1500 rpm on bottom weight even with 100% recycled yarn.

O Leno

- It is a big relief from changing E leno bobbins at every 4 days. No more moving of E leno assembly, regular consumable items.
- O leno is with bigger bobbin with 10 times longer running time. No more leno bobbin winder required nor you need extra person required for operating Leno Winder.

Ultimax rapier weaving machine

- Ultimax 12-J-340 – for Flat Carpet
- Ultimax 4-R-220 – for Denim
- Ultimax 8-R-360 – for Voile
- Ultimax Terry- 8-J-260 – for Terry towel



FIGURE 14: PICANOL



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LAXMI LOOMS, INDIA



LHR 450 high speed rapier loom

- LHR 450 high speed rapier loom is a state-of-the-art cam beat-up loom under “Make in India” campaign
- Touch panel for easy access to operational parameters and with a vision integrating IOT 4.0 in the near future
- LHR 450 is available in width from 180 cm to 340 cm with weft insertion rate of 1000 meters/minute with suitable servo take-up & let-off (up to beam flange dia. 1000 mm)
- With stepper motor driven 8- colour presenter, with pick-finding device, independent leno motion
- With energy efficient motor which make it sustainable for weaving light to heavy fabrics

WEAVING



FIGURE 15: LHR 450

ITEMA, ITALY



EVO Weaving Machines

- Advanced solution for weft transfer to enhance versatility and machine performance
- iSAVER range available in up to 6 colours and for many more fabrics apart from Denim
- Innovative digital software like iKNOW which contains know-how collected on the field by ITEMA experts and MyWeave advanced mill monitoring system

Rapier Weaving Machines

- R95002, R95002 Denim, R95002 Terry, R90002 , HERCULES for Technical Textiles

Air Jet Weaving Machines

- A95002, A95002 Bedsheeting

SMIT, ITALY



High speed weaving machine

- SMIT brought weft tension control device 2SAVE that saves selvage at both left & right side. Thus brings sustainability by reducing the waste. 2SAVE saves 50 mm & 80 mm of yarn at each pick.

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STAUBLI, SWITZERLAND



SAFIR S60 - automatic drawing-in system

- With Active Warp Control 2.0 (AWC 2.0) for setting standards in yarn recognition and management

Staubli Jacquards LX PRO, LXL PRO, LXXL PRO

- Energy efficient PRO series in the production of flat, terry or OPW (one - Piece woven) fabric.
- Available in formats ranging from 4,608 hooks (LX PRO) to 25,600 hooks (LXXL PRO)

Carpet Weaving System ALPHA for rug production

GROZ-BECKERT

GROZ-BECKERT

KnotMaster - Knotting Machine

WarpMasterPlus - Automatic Drawing-in Machine

- Reeds for the customers who produce fabrics in the range of high fineness (both wire and synthetic fabrics). Weaving reeds are used for production of fabrics used in technical filtration, membrane technology, solar cells or touch screens.

TOYOTA, JAPAN



TOYOTA INDUSTRIES CORPORATION

JAT 910 Air Jet Loom

- 20% reduction in air consumption than previous model with 10% reduced air pressure
- New main motor & inverter achieves 10% reduction in power consumption.
- Use of i-SENSOR world's first sensor that detects weft yarn insertion timing as the yarn is passing inside the warp yarn, enables the optimum air pressure and weft insertion requirements to be automatically calculated based on Toyota Industries' proprietary algorithm, thereby supporting improved efficiency

WEAVING

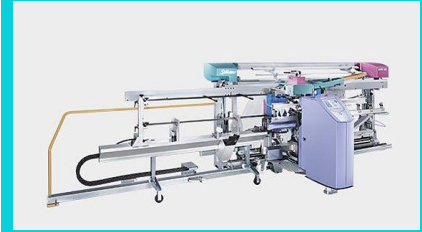


FIGURE 16: SAFIR S60



FIGURE 17: WARPMASTER PLUS



FIGURE 18: JAT 910 AIRJET LOOM



KARL MAYER



MULTI-MATIC 32 Compact - Warp Sampling Machine

- Multi-matic 32 compact is having double productivity than previous model with the same space requirement, simple & fast pattern changes, short set-up time.
- Machine is fully automatic and don't requires skilled workers to operate the machine.

LINK-MATIC System

- With this sophisticated automation solution, the batch changes on indigo and sizing machines can be simplified considerably, thus increasing productivity.
- An increase of up to 30 % is possible, depending on the number of batches. In addition, there is up to 600 m less yarn waste per batch and less personnel is required.
- When changing batches, only one operator is needed to prepare the warp beams for feeding into the machine.
- A fully automatic knotting unit couples the warp yarns of the new batch to the yarns of the batch just finished.
- Efficient access to machine data and remote service through the cloud system networking of warp preparation machines.

BLUEDYE the nitrogen based dyeing technology for Denim sector

- BLUEDYE minimizes immense amount of water and chemicals which ensures greater sustainability and lower costs by around 20%.
- The amount of main environmental pollutants of the process hydrosulphite and caustic soda is reduced by more than 50% and volume of water required is reduced significantly. In addition less yarn waste is produced.

WEAVING



FIGURE 19: MULTI-MATIC 32



FIGURE 20: BLUEDYE



MAYER & CIE, GERMANY



OVJA 2.4 EM Knitting machine

- Machine knits double jacquard with electronic individual needle selection in the cylinder and double fabric with weft thread.
- Most productive machine in its class.
- Spacer fabric also can be knitted on this machine

Reliant 3.2 HS

- Machine is with improved yarn guides
- Needles with optimised hook and tongue shape and pre-determined breaking point to improve safety at higher output.
- The new sinker is another feature of Reliant 3.2 HS which makes the machine run smoother and reduces wear and tear

SF4-3.2 III

- This machine is for three- thread fleece, especially for leisurewear, both in pure cotton and blends, which is in great demand.

Braiding Machine

- MR-15/18 C / Single Deck braider for textile braiding.
- The new capstan wheel pull-off that is especially suitable for smaller- diameter hoses with textile braiding.
- The SpeedBooster upgrade kit delivers more speed and up to 10% more output

SMART FUNCTIONS for fewer faults and less waste

- Knithaw recognizes and identifies knitting faults fast during the knitting process, switching the machine off automatically. That makes production significantly more efficient and sustainable
- Knithaw is the platform that links the manufacturer, representatives and customers. IIoT based and central location for all the machine data that every customer can use to record and evaluate the performance of his machines.
- Knitlink provides every customer with remote access to the circular knitting machine. Digitally linked new - generation control 5.0 web shop

KNITTING



FIGURE 21: OVJA 2.4



CIXING STEIGER, SWITZERLAND CIXING 慈星

STG860 Multi-functional Flat Knitting machine

- Machine makes sweater with multiple patterns and various product range to release higher profit range
- The machine can be used for various applications including Technical Textiles

GROZ- BECKERT, GERMANY GROZ-BECKERT

LC Max Circular knitting needles

- New wave- shaped shank geometry, reduces energy cost through minimal power consumption and reduced machine temperatures compared to standard needles. Up to 20% energy consumption can be saved with LC Max needles.
- Use of LC Max enables utilisation of maximum machine speed and easy handling

SNK-SF Sinker needles

- Features significantly higher wear resistance
- Ensures smoother running of circular knitting machine and improved loop structure.

SANTM DUO and SAN-DUO Needles

- Features low shank with predetermined breaking groove in turn enables controlled needle breakage in the event of wear at the desired point. This reduces errors in knitting process as well as downtimes.

Compound Needle

- With this needle variant, the closer is guided safely and precisely in the groove in the needle shank. At the same time, however the base of needle shank is worked in close manner, ensuring maximum stability.
- The compound needle reliably prevents latching and makes decisive contribution to process reliability.
- It's use ensures a uniform and speed-independent loop structure, even at maximum speeds.

KNITTING



FIGURE 22: LC MAX

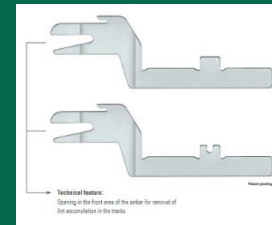


FIGURE 23: SNK SF STAPLE FIBER SINKER



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SAN TT Flat knitting needles

- SAN TT needles are suitable for multi-thread knitting of narrow loops in the field of technical or medical textiles.

SAN FY- Flat knitting needles

- The SAN FY is designed for robust, uneven fancy yarns.

TUFTING - Needle & Loper Modules for Tufting

- For the production of tufted floor coverings such as carpets, bath mats, or artificial turf.

KNITTING

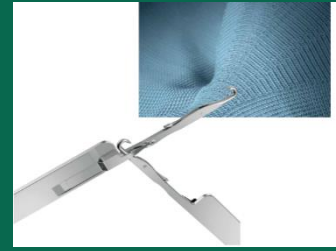


FIGURE 24: SAN TT



Air Fiber Washer

- First industrial air system designed to reduce microfibers (small particals having length less than 15 mm) shedding in textiles to extract microfibers during garment fabrication and reduce subsequent shedding in domestic laundering.
- With this technology microfiber shedding reduces up to 60% through the use of air without employing water or thermal energy without compromising quality of fabric.
- Each washer collects up to 325 Kgs of microfibers per annum.
- Thus fibers going in to effluent are arrested and ensures zero waste as these fibers can be recycled

FONG'S, CHINA



THEN Smartflow TSF

- TSF softflow's advanced features gives high quality results with minimal water, energy and chemicals
- Machine's smart fabric transport system ensures extremely even dyeing of the fabric through accurate control of the nozzle pressure and pump power
- PLC controlled plating system and variable chamber adjustment depending on fabric characteristics is another feature
- Heat exchanger enable to heat the liquor quickly and efficiently to reduce energy consumption
- Bath preparation unit and chemical dosing system ensure accurate and precise dosing of chemicals, dyestuff and salt, reducing chemical waste and optimizing results while reducing process times
- TSF operates with low liquor ratio of 1:2.5 with full loading of synthetic fabric. Resulting not only reduction in consumption of steam and water but also less amount of waste water generation

FABRIC
PROCESSING



FIGURE 25 AIR FIBER WASH



FIGURE 26 THEN
SMARTFLOW TSF



BIANCALANI, ITALY



AQUARIA Washer

- An open-width tumble washing and wet treatments system
- Designed to reduce water and energy consumption in a very special way
- Washing after-print in AQUARIA offers very important savings in terms of water and energy

DUETTO Dryer

- Continuous open drying machinery
- Is in line with Biancalani's philosophy to dry and soften fabrics reducing energy consumption while significantly increasing productivity and efficiency

THIES

TEXTILMASCHINEN



Signature Series

- Innovative fabric colouration technology with reduced water consumption, improved dyeing uniformity and shorter batch time are major features of signature series soft flow dyeing machine.
- Highly consistent results with liquor ratios starting at 1:2.3 liter of water per kg of fabric, resulting dye consumption by around 20% while achieving the same shade, requires less energy to heat water and lowers the cost of water treatment by reducing TDS up to 50%
- This machine eliminates traditional dyeing methods such as spray or pad dyeing. It eliminates the need of separate machines for washing, bleaching & dyeing. Nearly all wet treatments can be carried out on this single machine.
- Has a benefits batch dyeing with low liquor ratio of single-pass applications, making it cost effective and efficient solution

FABRIC PROCESSING

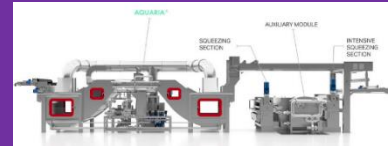


FIGURE 27: AQUARIA WASHER



FIGURE 28: SIGNATURE SERIES



COLORJET, INDIA



MetroNext Digital printer

- Made in India digital textile printing machine
- High quality and high speed digital textile printer.
- It has 8 color options with speed reaching up to 9000 sqm/day

Earth Series - Advance Sustainable Pigment Solution

- 98% less water consumption per meter printed
- Super-Efficient water filtration & reclamation System
- High printability sharpness & fastness properties
- Immediate visibility of printing results
- Binder technology, Deep colour intensity

EFI REGGIANI, USA



EFI Reggiani ecoTERRA

- Pigment print line is all-in-one solution for water based pigment printing that requires no ancillary equipment for pre and post treatment.
- It's a truly sustainable direct fabric printing solution by significantly reduction in water, energy and chemical consumption in overall process

Reggiani HYPER

- It is the fastest scan digital printer available in the market. Available in 1.8, 2.4 & 3.4 meter wide options with 72 printheads and ink recirculation up to the nozzle plate.
- It can print two pass, production quality at speeds up to 13 linier meters per minute on 1.5 meter wide roll. 20 meters per minute speed can be achieved by using dual-roll capacity on 3.4 meter model.
- EFI Reggiani BOLT XS printer with speed up to 100 linier meter per minute. This machine is claimed true digital replacement for rotary printing.

PRINTING



FIGURE 29: METRONEXT



FIGURE 30: EFI REGGIANI ECOTERRA



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MIMAKI, JAPAN

Mimaki® GLOBAL

Dye sublimation transfer printer - Tiger600 - 1800TS

- Production rate 550 sq. meter per hour
- Space required to install the machine is just 3.5 meters
- Ink is Oeko-Tex certified and Bluesign certification is awaited
- The Neo - Chromo process promotes circular economy by releasing a sublimation ink from polyester textiles, it enables reprinting or reusing of textiles almost without use of the water
- Print of the signage's can be removed and reuse and reprint the signage's

Texcol an innovative pigment transfer paper

- Waterless process, offering the versatility to print on wide range of textiles, with sharp details and high colour brilliance
- Main attraction of this innovation is that the textile does not require pre or post treatment

ALEPH, ITALY

aleph
in printing, we care

LAFORTE 400 Fabric H printer

- Pre-treatment of fabric can be performed in line with extra printheads installed on the printer
- Production rate up to 480 sq.meters/hour and easy to handle three - step processing
- Printed utilises apeph GOTS certified pigment inks for improved sustainability
- LAFORTE 600 paper is another fastest industrial printer in sublimation market with speed up to 1000 sq.meter per hour

PRINTING



FIGURE 31: TIGER600-1800TS



FIGURE 32 LAFORTE



EPSON, JAPAN

EPSON

Monna Lisa series

- Capable of printing on any fibre surface up to a fabric width of 340 cm
- 8 base colors with extension option up to 740m²/h and 600 x 600 dpi.
- Advanced automatic cleaning and adjustment mechanism
- High ink/fabric capacity all you need for top quality and high-speed printing, with no errors and almost zero down time
- The highest standards and unmatched flexibility, able to adapt in real time to the needs of our increasingly dynamic market

GURJAR, INDIA

Rotary Screens for Printer

- Launched 4th generation screen technology, 225- Mesh screen allowing for even finer designs and improved aesthetic appeal.
- This screen also brings greater efficiency in production process with reduced chemical & dye usage, lesser requirement of manpower and increased automation



Monna Lisa ML-8000: best start & grow

FIGURE 33: MONNA LISA

WEFFAN

3D Woven Garment System (Garments from yarn through 3D Weaving)

- From existing jacquard looms and software, instead of weaving a single layer of fabric, actually engineers the garment shape and garment components on the loom.
- In a textile value chain garment manufacturing step is being removed with this system. Currently weavers take a pattern to be cut and sewn, processes that may happen at different facilities or factories before being shipped to the consumer. Weffan is putting those steps in to one machine

GROZBECKERT, GERMANY GROZ-BECKERT

Sewing Needles SANTM Special application needles

- SAN 5.2TM suitable for sewing a technical textiles such as airbags. Needles is having increased stability and secured loop pick-up.
- SAN 6TM for sewing of woven fabric such as Denim
- Both needles are equipped with GEBEDURTM coating which protects needle from wear & damage, especially in the point area.
- SANTM 10 slim & dimensionally stable needle used for sewing of fine knitted & woven fabrics. Whereas SANTM 10 XS is for extremely fine material or materials that requires critical sewing

GARMENTING



FIGURE 34: WEFAN 3D WOVEN



TRUETZSCHLER NONWOVENS, GERMANY



Needle Punch Line

- T-SUPREMA, package of excellent machinery, tailor made production lines, integrated digital support and global service
- Web weights from 60 – 1000 gsm, wide range of fibers in various fineness
- Output up to 7,500 tons/ year and end products mainly for technical applications such as geo and automotive textiles, filtration media (gas & liquid filtration), home textiles, furnishings and others
- Italian company Texnology is partner for the needling machines, web drafters and crosslappers.

NONWOVENS



ANDRITZ, AUSTRIA



- Andritz introduced new Spunlace pilot line for natural & recycled fibers at its center of competence in Montbonnot, France.
- It allows customers and partners to conduct trials for producing nonwovens from recycled and/or natural fibers such as hemp, flex and cotton.

DILO, GERMANY



“MicroPunch” complete production line for intensive needling

- MicroPunch technology is for needling fine and lightweight fleeces to be used in hygiene, medicine, apparel and other applications.
- Good abrasion resistance of the intensely needled materials suggests further application fields such as apparel, artificial leather, battery separators and filter media.
- More focus on environmental sustainability and recyclability on processing of biologically degradable fibres is a major goal.



Compiled by SUVIN

- Compare to hydroentangling the “MicroPunch” needling allows reduction of energy consumption of about 75% based on the complete installation.
- MicroPunch line consist of
 - Fibre preparation – DiloTemafa components
 - Universal or Random Card – DiloSpinnbau
 - Pre & finish needlelooms & Winding Unit – MicroPunch Speciality needling

GROZBECKERT, GERMANY GROZ-BECKERT

Felting Needles

- Felting needles for classic needling or hydroentanglement. HyTec™ P Jet strip features significantly improved wear resistance and handling properties.

Card Clothing - Nonwoven

- World’s finest interlinked card clothing for reduced crash risk
- SiroLock plus types inline card clothing series is for higher line availability and more even carding result.

SICAM SRL



Spunlace and wet pulp installation

- Applications like hygiene, body care cotton pads etc.
- GSM range 140 -240 and speed 10 - 25 m/min
- Working width 1600 - 2500 mm

BONINO



Turbo card for many Nonwoven applications

- Designed for natural fibers & blends with PP & PES
- Machine is being used in wide range of different industry sectors and applications which includes automotive, sound and heat insulation, filtration, garments and furnishing, feminine hygiene and sanitary products, blankets etc.
- Benefits: small capital investment, less space required, better MC: DC ratio and three dimensional fibre distribution.
- The machine can produce 100 to 3000 gsm and achieve to maximum production of 500 kg/h

NONWOVENS



FIGURE 35: TURBOCARD



Fibers

SAFR – FR SUSTAINABLE FIBRE BY BIRLA CELLULOSE, INDIA



- Birla SaFR is a Phosphate based inherently fire retardant sustainable cellulosic fibres ideal for making flame retardant fabrics with eco- friendly characteristics
- Made in India indicative to provide an alternative to imported Fire Retardant fibres
- SaFR can be blended with other high performance fibres like aramid, FR mod acrylic, FR polyester etc.
- SaFR is applicable in the industries requiring highest standards against fire protection such as thermal protection, electric arc protection, molten metal splash protection catering to the unique needs of sectors such as defence, emergency response (ER), oil & gas, electrical utility companies etc.
- SaFR has the Oxygen Limiting Factor (OLF) >28 and it sustains the FR efficacy post multiple washes (>50 washes)

Lab / Testing / Inspection

Uster Fabriq Assistant



- Artificial intelligence in fabric inspection. Uster Fabriq Assistant is a central platform for automated processing, analysing and visualizing quality data from Uster fabric inspection systems.
- The application is web based tool and shows summary of quality performance from all the fabric rolls inspected in the mill
- Fabriq Assistant removes unwanted workload of manual data preparation and analysis. It also provide basis for maximum decision- making accuracy, using advanced technologies such as Artificial Intelligence (AI)



Others

ERCA Textile Specialties has developed a technology to transform common waste material, such as exhausted vegetable cooking oil into an up cycled certified high performance, safe textile chemical. REVECOL is sustainable chemical agent.



SUMMARY

19th edition of world's largest textile and garment technology exhibition ITMA 2023 opens in Milan. 1709 exhibitors participated from 47 countries. Following are the highlights of ITME 2023.

Sr.No.	Exhibiting Countries	%Space Occupation	No. of Exhibitors
1	Italy	30%	422
2	Germany	18%	198
3	Turkey	12%	191
4	China	7%	231
5	India	6%	181

	Participating Sectors	%Space Occupation	No. of Exhibitors
1	Finishing	27%	329
2	Spinning	13%	257
3	Weaving	10%	161
4	Printing	12%	146
5	Knitting	10%	128



Compiled by SUVIN

As our MD Mr. Avinash Mayekar's plan schedule for the ITMA, milan got cancelled on account of sudden very unfortunate demise of a close work friend, he was not able to attend the ITMA event in person. As such we have compiled above information through our contacts and industry experts as well as from press release published in leading news channels, magazines and media houses. We have tried to cover most of the innovative launches in ITMA, 2023.

However if we you need additional information, We would be delighted to bring more details on any specific machinery of interest to you by directly connecting with the exhibitors, please let us know the area of interest.

About US: SUVIN

Focusing on "complete solutions" for the textile industry. For past 10 years we have successfully completed more than 300+ assignments in India and 19 assignments globally. We are having capability for implementing the complete project concept from Market research to feasibility study to partnering with the owners for realistic business.

Our Services:

- Market Research
- Techno Economic Feasibility Report
- Technology Selection
- Advisory Services
- Marketing Assistance
- Assistance in Government Subsidy



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