

ITME 2016 - Higher profitability with Rieter systems

Autocoro 9 - A motor powering the Indian denim boom

Rieter will exhibit a wide range of innovations at ITME 2016 in Mumbai (India). As the world leader in compact technology, Rieter will show the K 42 compact spinning machine and the G 32 ring spinning machine with EliTe. The learning system Rieter "UPtime" Solutions, which supports the preventive maintenance of plants, represents a further step towards the digitization of spinning mills.

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In addition, Rieter will be exhibiting the new single head draw frames generation RSB-D 50 and the R 36 semi-automatic rotor spinning machine. **Wide range of innovative products and services**
 An unprecedented level of productivity with the highest quality standards is what is offered by the new RSB-D 50 single-head draw frame generation. With the patented ECOrized drive technology along with an innovative autoleveller and fiber guiding system, an increase in delivery speed of up to 33% can be realized. The new coiler CLEANcoil-PES extends the cleaning cycle on critical polyester fibres by at least 100%. In addition, the machine is characterized by significantly lower energy consumption.

Compact spinning has established itself as the leading spinning system worldwide. The Rieter compact spinning systems Com4compact and EliTe are unique and are the most successful systems in the segment worldwide. A total of more than 13 million compact spindles by Rieter are already being deployed by customers.

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At maximum productivity, the K 42 compact spinning machine sets standards for quality and economy. The very high strength and low hairiness of Com4compact yarns have significant economical advantages throughout downstream processing. The K 42 requires only about 25% of the compacting energy necessary with comparable solutions.

With the G 32 ring spinning machine and the EliTe-compacting system, Rieter will be introducing another, particularly versatile, machine combination for this segment to the market. It covers the entire yarn count area as well as different raw materials, and is retrofittable.

The R 36 semi-automatic rotor spinning machine with the latest spinning technology and easy operation is the solution to achieving economical production. Thanks to automated spinning (ASI), after a power outage it can run again by a simple press of the start button. With the new S 36 spin box, spinning stability is increased further; in addition, it enables better yarn quality through optimized fiber flow. With 600 spinning units, the R 36 is the longest machine in its class.

In after-sales business, Rieter will demonstrate at ITME new services and complete solutions for the entire production process. These technology components and packages improve yarn quality (Q-Package), maximize productivity (wobble disc), extend the life of equipment (card cover shoe) and reduce energy consumption (ECOrized section pipe).

In addition, Rieter "UPtime" solutions will introduce a digital learning system for the monitoring and maintenance of spinning to the market. This innovative system can be integrated easily into existing plants and provides decisive advances in preventive maintenance. After the introduction of the "Alert & Cockpit" module, this is a further step in the direction of digitizing spinning mills. With extensive mill audits, Rieter will offer a service to optimize the productivity of spinning mills across the entire life cycle. In the current year, Rieter employees have already undertaken over a hundred audits in Indian businesses and developed concrete solutions with big benefits for customers. The attractive service range extends from technology support through repairs to customer training.

Rieter technology components report on Page 3

The Indian denim market is booming. In the last five years, turnover has risen by 15% to a volume of USD 4.5 billion. Experts anticipate that the USD 8 billion mark will be reached by 2023.

The development of denim yarn production in India has been correspondingly dynamic, with the Autocoro 9 being one of the motors behind this growth.

With a market share of over 90%, the Autocoro plays a major role in the growth and value added in the Indian textile industry.

Developed by Schlafhorst, this innovation has revolutionised rotor spinning mills in India and set entirely new standards in productivity and efficiency thanks to the

individual spinning position drive. **Sudarshan, the largest Autocoro 8 spinning mill in India, features the latest Autocoro technology**

Sudarshan Jeans Pvt Ltd. is one of the biggest denim manufacturers in India and is also the largest Indiabased customer for the Autocoro 8 and Autocoro 9 made by the German textile machinery manufacturer Schlafhorst.

No Indian company operates more Autocoro rotor spinning machines from the latest Autocoro generation than the market leader from Kolhapur in the Indian state of Maharashtra.

Sudarshan has already enjoyed many years of highly

successful production with the Autocoro 8. The outstanding extra advantages provided by the new Autocoro 9, which was exhibited at ITMA 2015 in Milan, immediately convinced Sudarshan to invest in this model.

13 Autocoro 8 and 9 machines with a total of 6,528 spinning positions are now in operation at two plants around the clock, producing cotton yarns with counts between Ne 4.5 and Ne 20 that are predominantly intended for downstream processing within the company.

The annual production of Sudarshan Jeans has risen to more than 70 million metres of denim and terry cloth, of which 80% is exported around the world by the company.



'Value for money': strategy for success

The family company, which was founded in 2003 and has a rich tradition, pursues a philosophy of 'value for money'. With unrivalled dedication and excellence on all levels of the textile value creation chain, Sudarshan Jeans offers its

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Supported by: Office of the Textile Commissioner, Ministry of Textiles, Govt. of India

State Partner: Textile Department, Government of Maharashtra

International Textile Conference: **MAKE IN INDIA** Global Vision of Indian Textile Industry, 1st & 2nd December 2016, Hotel The Lalit, Sahar Airport Road, Andheri (E), Mumbai

Platinum Partner: Reliance Industries Limited

CHIEF GUEST : Mr. Ujjwal Uke, IAS, Principal Secretary (Textiles), Govt. of Maharashtra

KEY NOTE SPEAKER : Mr. R. D. Udeshi, President-Polyester Chain, Reliance Industries Limited

FELICITATIONS : Mr. Jayantibhai Jariwala, Chairman & Managing Director, Colourtex Industries Pvt. Ltd.
 Mr. G. T. Dembla, Chairman, Precision Rubber Industries Pvt. Ltd.

TOPICS / SPEAKERS:

- **Make in India – An approach to Global Manufacturing Hub** - Mr. R. B. Gupte, Director, MSME, Mumbai
- **Journey towards Challenges –Best Practices & ZED Certification** - Dr. Anandraj, Senior Advisor, ZED Cell CICI
- **Role of Textile Sector Skill Council to support Make in India mission through Skilling in textile sector**
 Dr. J. V. Rao, CEO, Skill Sector Skill Council (TSC)
- **Make in India – Indian Perspective** - Mr. Prashant M. Mangukia, Director, Yamuna Machine Works Pvt. Ltd.
- **"Eco Line" - Denim Finishing – A. Monforts, Germany** - Mr. G. Elango, General Manager, Textile Engineering-Processing, A.T.E. Enterprises Pvt. Ltd.
- **Printing & Coating competence out of one hand**
 Mr. Horst Ros, Managing Director Sales, J. Zimmer Maschinenbau GmbH, Klagenfurt, Austria
- **Advanced anaerobic technology for textile industry wastewaters** - Mr. Bhushan Zarpkar, Director-Operations, ATE Envirotech P. Ltd.
- **Dyeing of Polyester fabrics using Super Critical Fluid (Carbon Dioxide) - Waterless Dyeing**
 Mr. Elliyas Mohammed, Business Development Manager (Disperse Dyes), Colourtex Industries Pvt. Ltd.
- **Polyester** - Mr. Gunjan Sharma, Sr. Vice President & Business Head – Staples, Reliance Industries Limited
- **New generation regenerated Cellulose Viscose**
 Mr. Manohar Samuel, President (Marketing & Business Devpt.) Birla Cellulose, Grasim Industries Ltd.
- **Denim** - Mr. Pranab Karmakar, Head-Denim Production, Arvind Limited
- **Linen Fibre – Fibre based Textile**
 Ms. Deepa Chandran, General Manager - Head of Buying and Merchandising for Brand People, at Aditya Birla Fashion and Retail Ltd.
- **State Policies of Karnataka Government - Nuthana Javali Neethi (2013-18)**
 Mr. R. Girish, IAS, Commissioner for Textile Development & Director Handlooms & Textiles, Govt. of Karnataka
- **Enabling Manufacturers and Exporters to Sell Globally with Amazon**
 Mr. Venkatesh Patri (Head-Global Sales), Mr. Parthiv Shah (Business Development Head- Global Sales), Amazon Global Selling
- **Energy Efficient and Eco-friendly Business Solutions (ESP) for Air & Water** - Thermax Ltd.
- **Automatic Transportation & Warehousing / Storage solutions for Textiles**
 Mr. Umesh Prasad, Director, U. V. Textile Machines Pvt. Ltd. / Automha India
- **How DNA technology is playing a critical role in ascertaining the Textile Supply chain**
 Mr. Rajeev Kewlani, Associate Director, Antar Advisors Pvt. Ltd.
- **Pressure Reducing Turbine** - Mr. Hasmukh Jain, Vice President-Marketing, Industrial Boiler Ltd.

PANEL DISCUSSION: "Industry Perceptions of Make in India" - Moderator: Mr. Varun Vaid, Associate Director, Wazir Advisors Pvt. Ltd. The panel will comprise the captains / next generation entrepreneurs from the textile industry.

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N. SCHLUMBERGER to show world-leading wool spinning technologies at ITME India

World leader in manufacturing of textile machinery dedicated to processing of long fibres, N. SCHLUMBERGER will be showing its leading and latest technologies at the forthcoming ITME India show to be held in Mumbai in Hall 1A, Booth H1R4.

Machineries on show from the France based company include the GC40 chain gills, GN8 intersecting drawing machine, ERA 40 combing machine and the new range of worsted and semi-worsted cards.

The GC40 chain gill is a high performance drafter with speeds of up to 600 metre per minute, while offering high productivity and quality. The GC40 offers optimal textile control at high speeds and has a high cleaning system and comes with a drafting head with a light moving assembly.

There are 2x60 numbers of fallers and pinning is done through round of flat pins. It has a nip distance of between 32 to 65 mm, with delivery speed of up to 600 metres per minute. The machine has drafts between 3-12 and total installed power of 12.8 - 15.6 kW and auto leveller range of +20 to -30%.

The machine needs low maintenance costs, thanks to an optimised mechanical design and is very user-friendly when considering man/machine dialogue. It is also possible to do telediagnostic's of the machine, which is available as an option.

The new range of worsted and semi-worsted cards are adaptable for wool between 17 and 33 µ. They incorporate a progressive process technology, while respecting the wool fibres. They come with a hopper with continuous flow and constant feeding density and also an integrated suction and also with a possibility of input auto leveller.

The cards come with high power for removing burr and have a low 'Inactive angle', for a high material yield. The high productivity is based particularly on swift high speed; optimal use of the carding surfaces and working widths up to 3.5 metres.

In the ERA 40 combing machine, progressive combing is achieved by a circular comb pinned over 360° and turning at a constant speed by producing tops, featuring new quality standards. It has precise and recordable adjustments, ensuring consistent high levels of cleanliness, while offering reduced operational and maintenance costs.

The ERA 40 works on a specific combing principle, while being very gentle on the fibres and offers fairly high production efficiencies of more than 50 kg per hour for 21/22 µ wool. Adjustments of the nip distance and other parameters are possible from the machine screen or remote, without stopping the machine.

The GN8 intersecting drawing machine has been designed and developed on a new intersecting based on the latest design of the chain gill drive, combined with the universal drafting head of GN series. It is designed to process wool or any kind of wool like fibres and is particularly adapted to process delicate, fine and short fibres such as cashmere, silk or fibres with low cohesion.

Santex Rimar at ITME India

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SANTASYNPACT also for levelling, steaming and compacting.

For the treatment of tubular knitted fabrics, the SANTEX portfolio includes; SANTASHRINK for tensionless drying, shrinking and relaxing; SANTASPREAD for steaming and compacting of tubular fabrics and SANTASTRETCH for dewatering and overstretching/wet onimpregnation.

SPEROTTO RIMAR is known for being a leading innovator and manufacturer of textile finishing machines for both woven and knitted fabrics made from natural as well as synthetic fibres. SPEROTTO RIMAR markets DECOFAST 3.5 for continuous decatizing process under pressure; FIXA for wool crabbing in continuous by overheated water under pressure; MULTIDECAT, a continuous decatizing machine; NOVA, a continuous solvent scouring machine; PLANA for efficient atmospheric plasma for natural fibres and UNIVERSA for vaporizing fabrics without tension.

CAVITEC is a premier supplier of machines and plants for coating, laminating and impregnating for composite products for aerospace, automotive, wind-power industries and for the resin impregnation of carbon, Kevlar or glass fibre.

CAVITEC technologies include; HOTMELT for coating and laminating; CAVIMELT, which is a rotogravure system; CAVI2COAT for multifunctional coating and laminating; CAVIFLEX, a hotmelt laminating machine with exchangeable coating modules; CAVIMELT PP is a plug and play solution, CAVIPREG offers prepreg lines and CAVISCAT offers scattered coating and laminating solutions.

ISOTEX offers solutions in coating, embossing and printing machines for synthetic leather, airbags and other technical applications.

Its products line-up includes ISOBAG for air-bags, ISOBELT for conveyor belts; ISOLAB for pilot lines; ISORUBBER for rubber-coating fabrics; ISOSKIN for coating synthetic leather; ISOWEAR for

Autocoro 9 - Powering Indian denim boom

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customers the best possible value for their money.

What does this global player find so fascinating about the new Autocoro?

"Our market is characterised by intense competition. The new Autocoro 9 ensures that we are even better placed to implement our company philosophy of 'value for money' while also attaining maximum productivity and efficiency in operation," says Mr. Sudarshan Bansal, Chairman and Managing Director of the company.

A decisive reason why the new Autocoro has the edge when it comes to productivity is its individual spinning position drive, which breaks through the system-related limits associated with conventional drives. Whether in terms of productivity, efficiency, flexibility or energy consumption, the new Autocoro once again sets records and therefore establishes a new benchmark in open-end rotor spinning technology. These advantages have also revolutionised the production of denim yarns at Sudarshan Jeans.

More efficient than ever

"With its innovative individual spinning position drive and superlative efficiency, the new Autocoro technology has raised our productivity to new record highs," notes Director Gautam Bansal. "Operating with minimum infrastructure and the lowest levels of energy consumption, we are now more productive than ever."

The individual spinning position drive enables higher rotor speeds while consuming less energy per kilogram of yarn than conventional rotor spinning technology featuring belt drives. "At these rotor speeds, we are therefore able to make full use of the raw material within the limits of textile technology in order to increase productivity. The new Autocoro always guarantees top quality and maximum energy efficiency," says General Manager Mr. Shankar Khot.

The first Autocoro 9 in India went to T.C. Spinners

The Indian textile industry has already made consistent use of the innovative Autocoro 8 technology over recent years in order to achieve above-average growth and profitable margins. It is therefore no surprise that one of the first Autocoro 9 machines was supplied to an Indian company. The Indian quality spinning mill T.C. Spinners, based in Chandigarh in the district of Mohali, ordered the Autocoro 9 – the latest Autocoro generation – at ITMA 2015 in Milan.

T.C. Spinners was founded in 2006 and primarily produces weaving and knitting yarns that are made from 100 % cotton and feature counts from Ne 10 to Ne 40, as well as polyester yarns. The

family-run company employs a total of 350 staff and boasts a total production capacity of around 50,000 spinning positions.

Autocoro 9 put through its paces

The new flagship of the German textile machinery manufacturer Schlafhorst entered operation in 2016. The Autocoro 9, which delivers a further significant boost to production with its 720 spinning positions, has been well and truly put through its paces by T.C. Spinners in the course of everyday operations since then – and it has been an uninterrupted success.

The Autocoro 9 sets new records in energy consumption, productivity, efficiency, ease of operation and quality. The energy consumption is up to 25 % lower, with spinning costs falling by as much as 19 %. This makes it even more efficient to perform high-speed production at the technological spinning limit of the material. It even helps reduce personnel requirements, thanks to a 60 % reduction in maintenance input. All of this opens up new opportunities in the fiercely competitive market for denim yarns.

Constant efficiency of over 95 % even for medium-fine yarns

T.C. Spinners is particularly impressed by the efficiency of the new Autocoro 9. "With the super-long Autocoro 9, we are continuously able to achieve over 95 % efficiency – even for medium-fine yarns," says Managing Director Mr. Dhuruv Satia. "This has exceeded all our expectations."

This sensational result is made possible by the individual spinning position technology: unlike with central drives, this can be used to perfectly tailor the automation to the machine length. T.C. Spinners, which operates an especially long Autocoro 9 with 720 spinning positions, knows how to make particularly efficient use of these advantages.

"T.C. Spinners produces a wide range of top-quality yarns. As a result, we also value the high flexibility offered by the individual spinning position drive, which enables economical production even in the context of frequent lot changes. The new Autocoro 9 now offers us even greater utilisation of space, higher productivity and higher energy efficiency," states Mr. Dhuruv Satia.

Ready for the future with the Autocoro 9

This advantage in terms of efficiency ensures that T.C. Spinners is ideally prepared for the future. No-one knows whether the growth forecasts made by the experts will prove to be accurate, nor can anyone say how much the competition will intensify. However, as T.C. Spinners is equipped with the latest Autocoro generation in the form of the groundbreaking Autocoro 9, it will be able to respond to all market requirements with confidence and successfully capitalise on all market opportunities.

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New draw frame concept from Trützschler

TWIN draw frame - this is what the new Trützschler Breaker Draw Frame TD 9T is called. TWIN means: A draw frame with two deliveries, but not based on the traditional double head principle. The advantage of low space requirement has been maintained. However, the disadvantage of the double head draw frames, poor efficiency, has been eliminated.

Higher efficiency

The TWIN draw frame TD 9T has two independent production sides. If a standstill

occurs on one side, the other side continues producing. This also applies to the can changer. When one can is full, it is changed. There is no need to wait until the other can is full as well.

Flexible applications

With this concept it is even possible to produce different qualities on both sides. In a small air-jet spinning mill, the TD 9T operates on one side as blending draw frame and on the other side as second passage.

Reduced production costs

The TWIN draw frame has been designed for the application

of JUMBO CANS with 1,200 mm diameter.

This applies to can set-up in the creel and at the delivery side. These cans hold 43% more sliver than conventional 1,000 mm cans. This means less sliver piecings and significantly less can transports.

Easy operation

Both draw frame sides are operated from a platform that is located in the middle. This saves space and reduces the walking distances for operators. The colour touch screen makes operation simple and effective.

ICC to display award winning 'On Card' flat tops height measuring device at ITME India

One of the oldest Indian manufacturer and exporter of card clothing and card room accessories, ICC Ltd is showcasing its award winning 'Tops Height Measuring' (THM) device, an innovative 'On Card' technology, to solve uncertainty and a pain area faced by spinners in the carding department at the upcoming ITME India in hall H1, stall D - 26.

The THM, which has been developed by ICC's own research & development team, is a well thought and engineered device, which can measure the flat tops variations on the machine and can also be digitalized. This new device takes the data and presents in such a way that a user can identify essential data in his/her laptop or PC in Microsoft Excel file format.

The data which can be identified includes, overall flat tops height variation, measured in individual flats online; how much grinding cut will be

required to get a certain level of variation standard; how many points will be ground to achieve the required level.

The THM device also pinpoints the exact flats which needs to be ground for achieving the required level and lastly also offers data on which flat tops the on-card grinding machine need to be set. The data can be stored for future reference, thus enabling mills to maintain service records.

THM can also be used to know the distortion in tops due to change in production rate, raw material and settings. In addition to this, the THM can avoid excessive cylinder wear out on account of inappropriate carding action, due to few rogue flats and enhance lifetime of flat tops.

The THM has also won the Research & Development 2015-16 award from the Textile Machinery Manufacturers Association (TMMA).

"So far, in case of flat tops

maintenance, there is no scientific method available with the mill technicians, to check the tops height evenness on card, and the contributing factors in case of variations," Mr Prasad Mahale, Vice President (Sales and Marketing) at ICC said.

"Everyone uses a common work method to level the flat tops, which often shortens the life of the tops and result in inconsistency in quality output, as the industry still does not have proper equipment to measure the height variation of the flat tops on the card itself when it is working and in hot condition," he added.

"Variation cannot also be checked time to time and hence there is no opportunity to correct the level of the flat tops, which also results in reduced cylinder wire life and poor quality. ICC, understood the need and developed the THM to address this problem," Mr Mahale informed.

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