

Innovation in the staple fibre spinning mill:

Schlafhorst points the way

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As a market and technology leader, Saurer Schlafhorst sets new standards in the staple fibre spinning mill with its innovative textile machines. Whether with regard to productivity, energy efficiency or profitability, Schlafhorst points the way in the industry. Textile companies all over the world use Schlafhorst's innovative edge to achieve a sustainable increase in their productivity and efficiency. With powerful machines and intelligent automation solutions from Schlafhorst, they operate successfully in their markets and dominate the competition.

The company from Germany with its long tradition is dedicated to ensuring the success of its customers. It has a presence in textile markets across the globe with an extensive sales and service network, along with production plants and technology centres in Germany, Czech Republic, China and India.

Autocoro 8: unchained productivity

Schlafhorst sets the pace in rotor spinning with its two Autocoro and BD product lines. The company's flagship, the Autocoro 8, has broken the rotor speed sound barrier that has existed for decades with rotor speeds of 160,000 rpm and more that have been proven in practice. More and more spinning mills are now producing high-speed yarns constantly at 160,000 rpm. Reports of sensational boosts in productivity are making the industry sit up and listen.

With a new maximum machine length of 552 spinning positions, the Autocoro 8 has become 15% more productive. But this unchained productivity doesn't take up any more space, because the Autocoro 8 with its single-drive technology is still 13% more compact than belt-driven machines of comparable length from other manufacturers. New, intelligent automation solutions ensure even greater productivity, permitting a seamless lot change on single-lot machines among other things. At the same time, batches can be reliably separated if needed without all spinning positions having to run out first when spinning cans or components need replacing. In other words, changing material no longer kills productivity.

The new BD 6: packages with the Autocoro character

In the world of semi-automatic machines, the new BD 6 is in a class of its own. The new semi-automatic BD 6 rotor spinning machine has been equipped with patented digital technology from the high-end world of the Autocoro. It is highly productive and even the basic machine configuration delivers packages that are scarcely distinguishable from Autocoro packages.

The patented digital piecing technology DigiPiecing with its high level of piecing reliability and the highly precise winding technology from the Autocoro facilitate take-up speeds of 230 m/min at the 480 winding units. The BD 6 is thus 40% faster and more productive than its predecessor. Countless improvements have simplified operation so that staff can maintain a high efficiency rating more easily. A broad spectrum of expansions also opens up new business horizons for semi-automated spinning mills.

Zinser and Autoconer – the benchmark in ring spinning

With its extensive competence from the roving frame to the package ready for sale, Schlafhorst is setting new standards in the ring spinning mill with uniquely innovative machines and efficient automation solutions. Schlafhorst is regarded as the benchmark in automation of the ring spinning mill, from the Zinser roving frame via Zinser ring and compact spinning machines to the Autoconer.

Zinser roving frame: faster – because we know how

The ZinserSpeed 51M roving frame for manual doffing and the Zinser 670 with integral doffer are extremely fast, reliable and energy-efficient, guaranteeing first-class roving as well as maximum productivity. The new suction system alone reduces the overall energy consumption by up to 20%.

Four independent drive shafts, decentralised field motors and the intelligent software control system EasySpin form the fundamental basis that enables the Zinser roving frame to produce top-quality fine to coarse ring yarns economically. The precise package structure ensures perfect roving package unwinding in the ring spinning machine.

Zinser 72: for a rapid return on investment

The ZinserRing 72 ring spinning machine and ZinserImpact 72 compact spinning machine with their proven top-notch technology and various automation options offer the maximum productivity, quality and profitability. Zinser thus sets the standard when it comes to benchmarking efficiency and utility value in the ring spinning mill.

The ZinserRing 72 with 1,920 spindles is super-long, superfast and perfect as a high-speed pacesetter in the ring spinning mill. The high-grade processing on the Zinser 72 series permits production at up to 25,000 rpm on all spindles, round the clock in continuous operation. The new bilateral suction system in combination with OptiSuction, the intelligent sensor-monitored yarn break suction system, reduces the energy requirement to 55 % of the energy otherwise needed.

ZinserImpact 72: the most reliable compact system

The new ZinserImpact 72 is equipped with the world's most efficient self-cleaning compact spinning technology, Impact FX. The advantages of being able to enter precise settings and reliable compacting thanks to self-cleaning technology make Impact FX the world's most reliable and economical compact system that guarantees top yarn quality and maximum profitability at the same time.

Doffing automatically with the CoWeMat

The efficiency ratings of the Zinser 72 series are boosted further when the fastest, most reliable doffer in the world, the Zinser CoWeMat, comes into the equation. Automatic bobbin changing at the ring spinning machine can cut personnel costs by up to 50 % compared with manual doffing. At the same time, the CoWeMat reduces the staff-intensive logistics outlay in the mill. The interruption-resistant, unsorted tube feed CoWeFeed guarantees frictionless processes that eliminate the need for operator intervention and reduce operator input by up to 66%.

The automatic link to the winding machine offers even greater advantages, as the spinning and winding capacities can be optimally coordinated for the maximum efficiency rating.

The Autoconer 6: an innovation that is creating a stir

The Autoconer, the first automatic winding machine in the world, has driven the textile industry forward with every wave of innovation and has often been copied. In 2015 the Autoconer 6 - the best original ever - is once again creating a stir. Equipped with innovative process intelligence, the new Autoconer 6 offers the latest, future-ready technology for maximum profitability.

New self-optimising technologies like the slip-free, superfast C-acceleration and productivity-optimised anti-patterning increase the effective winding speed and minimise unproductive cycle times. The Autoconer 6 achieves 6 % more productivity as a result. And with smart control, aerodynamically enhanced components and more efficient technology, the Autoconer 6 reduces energy consumption by up to 6 %. Intelligent material flow management with unique functions such as Vario Reserve, Bobbin Sharing, High-Speed Feeding and individually configurable bobbin and tube handling ensures constant 100 % capacity utilisation of the winding units.

Many innovations are concealed inside the Autoconer, such as the process intelligence, electronics concept and the state-of-the-art sensor technology. Processes are monitored online and units adjusted automatically, relieving the load on operators and preventing erroneous handling while ensuring maximum productivity.

Schlafhorst sets standards with regard to resource consumption too. Flexicycle, the adjustable MultiJet, the aerodynamically optimised suction arm and other improvements guarantee the shortest operation cycles to conserve resources and optimise process reliability. Energy-optimised suction system motors and intelligent vacuum adjustment reduce the machine's energy consumption.

The Autoconer type RM machine with up to 80 winding units has a new, open design. Its unique new bobbin change principle with 9+1 bobbins in the feed considerably accelerates the winding process.

Schlafhorst is setting new standards with the Autoconer 6 configuration. Many innovative new features have already been integrated into the basic model, giving an improved performance with regard to commodity applications in particular. TensionControl thus provides a system for yarn tension control even on the basic version. Autotense FX is also available as an option.

Schlafhorst Customer Support: A secure innovation path to the future.

Schlafhorst customers are not only buying a machine, they are also benefiting from a life-cycle partnership, which guarantees them a continuous strengthening of innovation and economic advantages in the ongoing production operation. Companies that purchase textile machines from Schlafhorst secure an economical innovation path to the future. Schlafhorst implements technological innovations so that they can be retrofitted to existing machines. With its original parts, modernisation kits, technology kits and service kits, Schlafhorst assumes responsibility for innovation throughout the product life cycle and ensures that even customers with older machine generations always benefit from technological advances.

With their unique expertise in the textile industry, over 450 service staff in 20 service and three technology centres advise customers all over the world with regard to productivity and quality increases.

Media contact

Waltraud Jansen

Expert Communication Rotor Spinning

Schlafhorst
Zweigniederlassung der
Saurer Germany GmbH & Co. KG
Carlstrasse 60
52531 Übach-Palenberg
Germany
T + 49 2451 905 2194
waltraud.jansen@saurer.com
www.saurer.com

About Schlafhorst:

Schlafhorst has been a trailblazer in the production of staple fibre yarns for 130 years. As the market and innovation leader, the textile machinery manufacturer offers solutions for the entire spinning mill line right up to the quality package. World-famous brands like Zinser, Autocoro, BD and Autoconer, together with unique process competence, make Schlafhorst the partner of choice for successful textile companies. With production plants in Germany, India and China as well as an international service and consultancy team, Schlafhorst fulfils its mission: to make spinning mills across the globe more efficient, productive and economical.

About the Saurer Group:

The Saurer Group is a leading, globally active textile enterprise focusing on machinery and components for yarn processing. Saurer is a company with a long tradition that has always set standards. It encompasses the leading spinning technology brands Schlafhorst and Zinser. The names Allma and Volkmann are synonymous with superb doubling machines, while Saurer Jintan denotes expertise in spinning preparation and Saurer Embroidery stands for embroidering competence. The Saurer Components Division brings together the brands of Accotex, Daytex, Fibrevision, Heberlein, Temco and Texparts.

With turnover of around CHF 1.2 billion and 3,800 employees working in plants in Switzerland, Germany, Turkey, Brazil, Mexico, the USA, China, India and Singapore, the Saurer Group is ideally positioned to service the world's textile centres.

Pictures with captions



Autocoro 8



BD 6



Autoconer 6

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ZinserRing 72
