

AUTOCORO 9 VACUUM TRASH CLEANER MORE PROFIT FROM AUTOMATING CLEANING

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The new Vacuum Trash Cleaner (VTC) from Schlafhorst is an innovative unit for the Autocoro 9. It improves automated cleaning of the rotor spinning machine and thus increases its profitability. The VTC increases the raw material tolerance of the Autocoro 9, reducing spinning costs further. The spinning of recycled or coarse yarns generates a lot of fibre waste due to the high material throughput. The E³-optimised innovation counteracts this. It significantly reduces the manpower required to keep the machines clean in these applications.

Efficient machine cleaning with minimum personnel costs

The VTC is located in the middle of the machine, where it vacuums the dirt removal conveyor belt halfway. As a result, less fibre material accumulates on the belt, so that it does not pile up even with larger quantities of waste. The fibre dust can no longer fall down, get swirled up or contaminate the machine from the inside. The machine remains clean even at high material throughput rates.

The advantages of this innovation in automation are evident. The manual effort for cleaning the spinning boxes and winding devices as well as the underside of the machine is reduced substantially. The fibre waste is taken to where it belongs: the dirt collection chamber. In addition, the brush housing stays clean for much longer, meaning that brush cleaning can be reduced by up to 80%. With a cleaning cycle of 10 minutes per machine, this measure alone quickly saves the expense of an operator.

Greater raw material tolerance, better quality

Maximum productivity, minimum raw material costs, best yarn quality – a rotor spinning mill has to strike a reasonable compromise between these goals every day. With its extremely high piecing capacity thanks to SynchroPiecing, the Autocoro 9 gives spinning mills more flexibility in the selection of raw materials. The VTC now significantly boosts the raw material tolerance of the Autocoro 9 further. It prevents fibre build-ups in the spinning box area underneath the machine and thus reduces contamination of the yarn with dirt particles. The spinning stability increases, which reduces yarn breakage. The greater cleanliness ensures better IPI values and an overall higher yarn quality. This ultimately also increases productivity, as the Corolab has to intervene much less frequently with cleaning cuts.

Maximum added value for recycling applications

True to the E³ philosophy, the Autocoro 9 delivers triple added value to spinning mills in terms of energy, economics and ergonomics. This also makes it the benchmark for recycling. Even at extremely high rotor speeds, the Autocoro 9 achieves efficiency levels of more than 99% thanks to SynchroPiecing. With spinning components that have been specially optimised for recycling applications, the Autocoro 9 also spins yarns with higher strength from critical raw materials. A special opening roller protects the stressed fibres.

The VTC improves this already considerable added value of the Autocoro 9 – especially in long machines. This opens up new savings opportunities for spinning mills. Raw material accounts for a large part of the spinning costs. A cost saving of 1 ct/kg weaving yarn (Ne 10) with a production capacity of just under 10,000 kg per day, which is what an Autocoro 9 with 720 spinning positions can achieve, adds up to annual savings of more than €35,000 for each machine. Against this backdrop, the Autocoro 9, equipped with the innovative VTC, is likely to rapidly expand its undisputed market leadership in the price-sensitive recycling market.

Media contacts

Waltraud Jansen
Expert Communication
Rotor Spinning

T + 49 2451 905 2194
waltraud.jansen@saurer.com

Rebecca Johnen
Junior Expert Communication
Rotor Spinning

T + 49 2451 905 2194
Rebecca.johnen@saurer.com

About Saurer Spinning Solutions

The brands in the Spinning segment support customers with solutions for staple fibre processing from bale to yarn. The portfolio includes machines, components, service, systems and automation for all staple fibres. Schlafhorst and Zinser are leading in staple fibre spinning and together with Jintan offer solutions from spinning preparation to winding. Components from Texparts enable excellent yarn quality and maximum productivity. For decades, we have been the trailblazer in our industry. Our products set milestones for energy consumption, economics and ergonomics.

About the Saurer Group

The Saurer Group is a leading globally operating technology group focusing on machinery and components for yarn processing. As a company with a long tradition, Saurer has always been a leader in innovation. Today, Saurer comprises the two segments Saurer Spinning Solutions and Saurer Technologies. Saurer Spinning Solutions offers high-quality, technologically advanced and customer-specific automation solutions for processing staple fibre from bale to yarn. Saurer Technologies specialises in twisting and embroidery as well as engineered and polymer solutions. With annual sales revenues of EUR 1.1 billion, 4,300 employees, and locations in Switzerland, Germany, Turkey, Brazil, Mexico, the USA, China, India and Singapore, the strongly growing Group is well positioned to serve the world's textile industry centres. Saurer is listed on the Shanghai Stock Exchange (securities code: 600545). www.saurer.com

Pictures with captions



The new VTC installed in the Autocoro 9.



The VTC is installed in the middle of the machine.