

AUTOCONER 6 - FX TECHNOLOGIES FOR COTTON PROCESSING

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ABSTRACT

During the ITMA 2015 in November the new Autoconer 6 was in the focus of the visitors. With its ground-breaking innovations the Autoconer 6, now with E³ label, sets new benchmarks regarding energy, economics and ergonomics. Additionally with its FX technologies the machine offers textile companies measurable benefits during winding and in downstream processing.



Figure 1. Autoconer 6

INTRODUCTION

The Schlafhorst FX technologies are well-known and have proven their worth for the worldwide textile industry, but in combination with all the Autoconer 6 innovations spinning mills can boost again their production performance and increase quality, productivity and cost-efficiency to the highest level. E³ is synonymous with triple added value in the Energy, Economics and Ergonomics categories.

ENERGY:

ENERGY CONSUMPTION REDUCED BY 20%

Schlafhorst has cut the energy consumption of the Autoconer 6 by up to 20 % compared with its predecessor model. The most important factors contributing to this perceptible reduction in resource consumption are the new, particularly

energy-efficient Eco-Drum-Drive System, suction motor and frequency inverter with improved power efficiency, SmartCycle in combination with the new intelligent vacuum control system "Power on demand" and the flow-optimised suction tube. MultiJet also plays an additional part in reducing resource consumption costs by cutting the compressed air consumption.



Figure 2. New SmartCycle function for energy reduction

**ECONOMICS:
UP TO 2 X 6 % MORE PRODUCTIVITY**

Even the basic model of the new Autoconer 6 is 6 % more productive than its predecessor model. With state-of-the-art process intelligence and productivity-optimised functions (LaunchControl, Eco-Drum-Drive System, SmartCycle, TensionControl, etc.) the Autoconer 6 operates with enhanced efficiency and more productivity directly from the start. Unproductive cycle times and downtimes are minimised. Up to 6 % more productivity can be optionally achieved with Speedster FX and the new SmartJet function, yielding up to 12 % more productivity in all – a unique leap forward.

**ERGONOMICS:
INTELLIGENCE INSIDE**

With intelligent sensor technology and smart process control, the Autoconer 6 pushes the textile-technological limits by itself, winds always at the most productive settings virtually without the need for operators. Smart electronics, functional mechanical innovations, autocalibration of aggregates along with autonomous elimination of malfunctions make manual intervention and adjustments by staff superfluous.

SCHLAFHORST QUALITY PACKAGES: FX HIGH-PERFORMANCE WINDING TECHNOLOGY

The Autoconer package is the benchmark for quality and added value in downstream processing. This is true both for commodity applications and for the very sophisticated demands of high-end applications. Schlafhorst has the experience of many decades in automatic package winding, knows the market and process requirements. So we have developed intelligent systems to create process-optimized packages considering the most important package and process characteristics.

Perfect inner package structure

- even, uniform yarn tension: Autotense FX
- effective anti-patterning: Propack FX
- pattern-free, process-optimized inner structure: PreciFX

Process-oriented external package format

- formation of straight package flanks: Variotense FX, Variopack FX
- high-precision length measurement: Ecopack FX
- process-optimized, unique package shapes: PreciFX

Excellent yarn quality

- gentle yarn handling, minimum yarn stress: Speedster FX
- precise, high-efficient yarn clearing: IRisFX

First-class splice quality

- outstanding splice appearance and strength: SmartSplicer family



Figure 3. Autoconer 6 with new SaurerPremier clearer IRisFX

SUMMARY

The best original ever: the Autoconer 6 raises the bar in the winding mill with its brand-new functions. The new Autoconer 6 is the guarantee of highly efficient winding and long-term success.