

Annual Energy Savings of USD 19 600 Thanks to VARIOline ECOrized



Karteks Tekstil, located in Adana, Turkey, serves the high-quality market segment for combed cotton yarns. The family-run company has optimized its spinning process over more than 30 years of working in the spinning industry, and now produces 72 000 tons of yarn each year. And Karteks continues to strive for improvement every day. To meet their high quality standards and benefit from modern technology, Karteks invested in three blowroom lines VARIOline, including the intelligent option VARIOline ECOrized for optimum energy savings.

The Challenge

Karteks operates a complete Rieter ring spinning system from bale to yarn. The blowroom plays an important role in terms of fiber quality and also offers great potential in terms of raw-material and energy savings. With its new blowrooms, Karteks aimed to minimize raw-material losses, energy costs, machine downtime and personnel requirements.

The Solution

Rieter provided the intelligent VARIOline ECOrized solution for all three of the new Rieter blowroom lines. The solution controls all fans dynamically. This means that the fan speed automatically adjusts to the material quantity, the process sequence and changed assortments. It ensures that the fibers pass through each of the blowroom machines with excellent energy efficiency. The solution also eliminates the need for an operator to adjust the air balance manually. VARIOline ECOrized facilitates predictive maintenance and helps to avoid unplanned interruptions in production. Furthermore, it considerably reduces the amount of dust in the blowroom, which improves the working conditions for the operators.



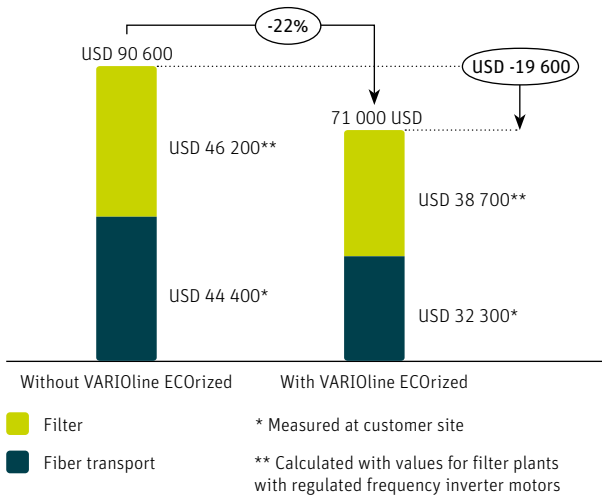
The Customer's Benefits

To determine the energy savings made thanks to the ECOriized system, Karteks operated the three new blowroom lines in the standard pneumatic fiber transport mode for the first three weeks. After collecting enough data, the lines were switched to the VARIOline ECOriized mode and have been operating in this mode ever since. The result was an energy saving of 22% (27% less energy required for fans and 16% less energy required for the filter) in the blowroom. In monetary terms, this equates to savings of USD 19 600 per year for all three blowroom lines.

The ambient air in the Rieter blowroom is significantly better compared to conventional systems due to the sealed exhaust air pipes to the filter station. The operators have noted that they breathe in less dust than before. In addition, the intelligent solution makes the whole blowroom line run more smoothly. It provides predictive information and permanently monitors the filter installation, thus preventing unexpected production interruptions.

Energy Savings of 22% With VARIOline ECOriized at Karteks

8 400 h/year, 0.08 USD/kWh, total production of 4 680 kg/h Cotton ring combed



The intelligent option VARIOline ECOriized allows great energy savings.

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The Customer's Statement

"I have purchased a complete system from blowroom to end spinning from Rieter and I am absolutely delighted with it. The advantage of Rieter as a system supplier lies in the optimum interaction of the machines. An example for this is the solution VARIOline ECOriized, which – along with many other benefits – saves 22% energy in the blowroom. Rieter developed a solution with great added value by addressing customer's needs."

Mr. Hüseyin Kadi

Mill Manager, Karteks Tekstil

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