

VARIOLine ECorized: Maximum Production on a Blowroom Line in India



Damodar Mills Ltd, Amravati, India produces ring yarn from cotton and cotton blends with polyester/viscose. The company is one of the largest producers of commodity and fancy yarn in India with six manufacturing facilities. Damodar has introduced many new products with different blends and new designs to the market. The company exports its products to over 40 countries across Europe, South Africa, Southern Africa and Australia.

The Challenge

With the acquisition of a new blowroom line, Damodar's challenges were to reduce the loss of raw material, lower its energy costs and operate the blowroom with fewer personnel than were required for the previous blowroom line. It was also important for the customer to reduce the dust in the air in order to provide better working conditions for the operators.

The Solution

Damodar is the first customer in India to utilize Rieter's high production blowroom VARIOLine with the new pre-cleaner UNlclean B 15. Also for the first time in India, Rieter integrated the intelligent VARIOLine ECorized solution into the blowroom which can be controlled via the control system UNlcontrol. VARIOLine ECorized ensures that the fibers pass through the individual machines of the blowroom in a highly energy-efficient way. In addition, no operator is needed to adjust the air balance manually. The VARIOLine ECorized system also facilitates predictive maintenance and helps to avoid unplanned interruptions in production.



The Customer's Benefits

Compared to competitor's spinning mills, the Rieter blowroom reduces loss of raw material. With a production rate of more than 1 500 kg/h with only one bale opener UNIfloc A 12 and one UNIClean B 15 it is one of the most productive blowrooms in India. The VARIOline ECOized system controls all the fans dynamically. As a result, energy consumption has decreased and Damodar now saves 4.5 kW/h in the pneumatic fiber transport system and an additional 4.5 kW/h in the filter house.

Furthermore, VARIOline ECOized has considerably reduced the dust in the blowroom thanks to the closed exhaust air pipes to the filter station. This has improved the working conditions for the operators significantly. Damodar also benefits from improved yarn quality: The Rieter blowroom provides excellent cleaning performance with a much-reduced level of lint loss which is also evident in the yarn results. Tests give Damodar a strong confidence that the blowroom will also produce reliably using a much higher production rate.

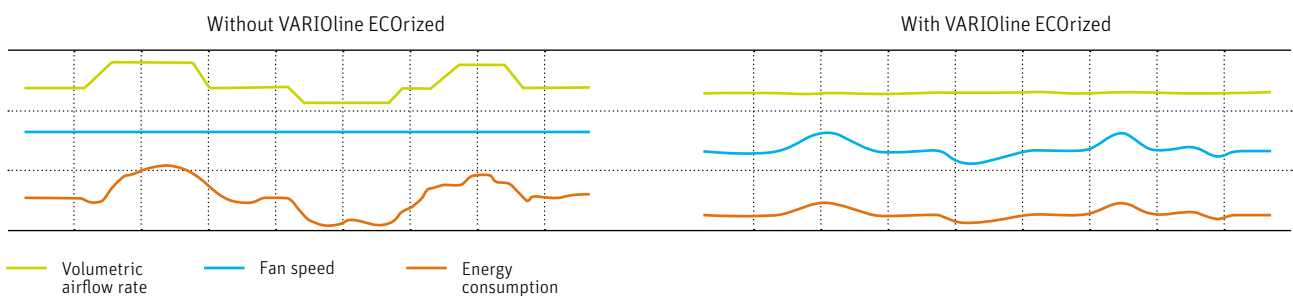


The Customer's Statement

"Rieter's innovative product range has suited and supported our decision to produce yarn at a higher output with lower production costs. If the Rieter blowroom is producing at 1 500 kg/h, it only requires one UNIfloc A 12 and one UNIClean B 15. In addition to this, the constantly measured and automatically adjusted airflow makes it the most energy-efficient blowroom."

Aditya Arunkumar Biyani, Managing Director

Energy-Efficient Fiber Preparation with VARIOline ECOized



VARIOline ECOized dynamically controls all fans and automatically adjusts the air balance when the fiber quantity is changed.

Damodar Industries Ltd

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Madhu Estate, Pandurang Budhkar Marg, Worli,
Mumbai - 400 013, India
Tel : +91 22 66610301
Email : info@damodargroup.com
<http://www.damodargroup.com/>

Rieter Machine Works Ltd.

Klosterstrasse 20
CH-8406 Winterthur
T +41 52 208 7171
F +41 52 208 8320
machines@rieter.com
aftersales@rieter.com

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