

J 26: High air-jet yarn quality at a production efficiency up to 98%



Rajaguru Spinning Mills Private Limited, established in 1993 at Erode, South India, operates over 130 000 ring spindles. This company is one of the largest viscose yarn manufacturer in South India. With its ring spinning machines, Rajaguru produces viscose standard, slub and high-twist yarns with counts ranging from Ne 16 to Ne 40, for both knitting and weaving applications. The company has established its yarns in the Indian market and exports them to Asia and Europe.

The Challenge

The company produces over 30 000 metric tons of viscose ring yarn per year. The management wanted to venture into air-jet spinning technology to produce high-quality yarns with the best downstream performance and zero interruptions during weaving and knitting. Rajaguru has created its own brand in the market with the uniform fabric structure of air-jet yarns.

The Solution

Rajaguru knows that Rieter is the only system supplier that has the state-of-the-art technology machines for producing all four types of yarns. Due to its unique yarn forming technology, the air-jet spinning machine J 26 from Rieter was the company's first choice. Taking references of several installations in other countries into account, Rajaguru's confidence in the J 26 was strengthened thanks to the high productivity, the yarn quality and the low conversion costs of the machine. Subsequently the company ordered four J 26 with 120 spinning positions each and five draw frames.



The Customer's Benefits

Rajaguru now produces high-quality Com4®jet yarns at a production efficiency up to 98%. The yarn is well established and accepted by the customers in both domestic and export markets. The unique benefits for the company are:

- The productivity is 5% higher than originally committed by Rieter during order confirmation.
- Com4®jet yarns stand for consistent quality with lower yarn imperfections and lower yarn hairiness.
- Yarn-like piecing results in downstream process without stops and a fabric with a high evenness.
- Each spinning position consumes 5% less electrical power and 10% less pneumatic air per kilogram of produced yarn compared to air-jet spinning machines of competitors.
- With the possibility to produce two different lots per machine, the company responds quickly and flexibly to the dynamic market needs.

Description	Parameter
Mixing	Viscose 100%
Count	Ne 24 to Ne 40
Natural breaks	0 to 0.5/100 km
Quality breaks	3 to 4/100 km
Production efficiency	up to 98%
CSP of Ne 30 yarn	2 550 (17.50 cN/Tex)



Mr. B. Sivakumar, Managing Director

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



The Customer's Statement

"The Rieter air-jet spinning machine J 26 has the most suitable air-jet spinning technology for us. The machines are running consistently at a production efficiency up to 98%. They produce yarn with best quality with low conversion costs at the same time. Due to the unmatched benefits we get from the J 26, we are very comfortable. We are satisfied to have entered into a partnership with Rieter and are looking forward to its continuation."

Mr. S. Balu
 Chairman

Rajaguru Spinning Mills Pvt Ltd
 297/2 Sulai, Manikampalayam Road
 Erode 638004, Tamil Nadu
 India
 +91 98940 33333
 admin@rajaguruspinningmills.com
 www.rajaguruspinningmills.com

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