

Carded Recycled Yarn Success : Rieter G 38 with COMPACT4



Nahar Spinning Mills Ltd. established in 1980, is one of India's leading textile manufacturers and major producer of cotton yarns with counts ranging from Ne 30 to Ne 80 catering dynamic textile market. The company specializes in the production of cotton yarns, value-added dyed yarns, knitted garments, catering to both domestic and international markets.

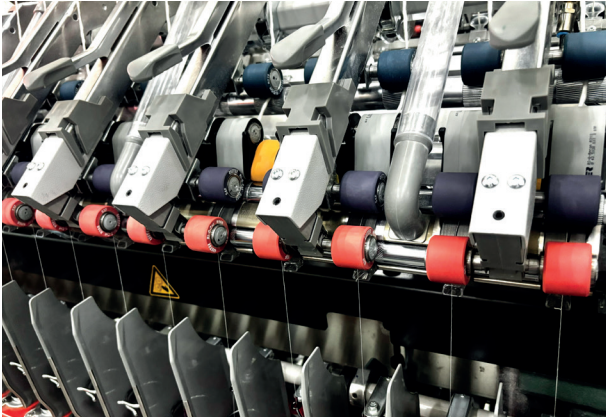
The Rieter ring spinning machine G 38 + COMPACT4 supports the company's quality-driven and customer-focused manufacturing strategy, delivering higher productivity, greater flexibility, and superior yarn quality for its leading brands and customers worldwide.

The Challenge

Nahar aimed to strengthen its competitiveness in a dynamic textile market. A key challenge was enhancing process flexibility to efficiently produce a wide range of yarn counts, including coarser and carded yarns, while maintaining consistently high yarn quality. Effectively processing recycled fibers to support sustainability goals without compromising productivity or yarn performance was another challenge. Additionally, optimizing energy and raw material utilization, reducing conversion costs, and improving machine productivity were critical to ensuring sustainable and cost-effective manufacturing.

The Solution

To address these challenges, Nahar Spinning Mills invested in Rieter ring spinning machines G 38 equipped with the compacting system COMPACT4 to enhance productivity, flexibility, and yarn quality. The advanced technology provides superior fiber control and reduced downtime, delivering stable spinning performance, higher machine efficiency, and consistently superior yarn quality. It also enables efficient processing of recycled fibers, helping Nahar optimize costs, improve sustainability, and meet diverse customer requirements.



Compacting system COMPACT4

The Customer's Benefits

Exceptional flexibility, significantly higher productivity, and superior yarn quality have been the key benefits achieved with the Rieter G 38 and COMPACT4 solution.

Nahar can seamlessly produce both combed and carded yarns on the same platform while efficiently processing recycled cotton fibers without compromising quality. This enables the mill to respond quickly to changing market demands while supporting its sustainability objectives.

Nahar achieved approximately 18% higher productivity in Ne 40 weaving yarns and 22% higher productivity in Ne 40 knitting yarns compared to their existing compact spinning machines, while consistently meeting the required quality standards. Across a wide range of yarn counts and applications, COMPACT4 has delivered productivity levels that significantly outperform conventional compact spinning systems.

The productivity gains are complemented by outstanding yarn quality. COMPACT4 produces yarn with a low hairiness index of 3.6 and excellent Uster CVM values of 11.8%, resulting in improved yarn regularity, enhanced weaving performance, fewer downstream interruptions, and superior fabric quality.

In addition, the system's low-maintenance design and energy-efficient operation ensure high machine availability and lower operating costs. Combined with the



The Customer's Statement

"COMPACT4 has helped us increase productivity with relatively low investment while maintaining excellent yarn quality. The technology provides the flexibility to efficiently produce coarser counts, run carded processes, and process recycled fibers based on market requirements. COMPACT4 has become a valuable solution in supporting our long-term growth and profitability objectives."

Suresh Puri

General Manager, Nahar Spinning Mills Ltd.

Autoconer X6 Multilink, which provides seamless process integration, optimized material flow, and reduced labor dependency, the solution further enhances operational efficiency and transparency.

By combining productivity, quality, flexibility, and sustainability on a single platform, Nahar Spinning Mills has strengthened its competitive advantage and is well positioned to meet the evolving demands of global textile markets.

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