Success Story
Machines & Systems

High Efficiency and Quality for Recycled Wool with the R 37

Jiangyin Haoshun Textile Co., Ltd. specializes in the production of wool fabrics. Located in Jiangyin, a hub for the wool fabric industry, the company operates in a highly competitive market. To strengthen its supply chain and enhance control over both cost and quality, Haoshun integrated the previously outsourced spinning process into its own operations by launching a spinning mill project.

Building on the success of its first-phase operations, Haoshun expanded its production capacity in 2025 to further boost its quality and cost advantages. The company introduced the rotor spinning machine R 37 along with card the C 77 and draw frame RSB-D 55, for processing recycled wool. The company's rotor spinning capacity has now reached 2 040 rotors, ensuring a stable and reliable supply of high-quality yarn for its own wool fabric production.

The Challenge

In the initial phase of the project, Haoshun utilized domestic rotor spinning equipment for production. However, with business expansion, the existing capacity could no longer meet the demands of downstream fabric production. Furthermore, the production of double-faced woolen fabrics imposes stringent requirements on yarn consistency and stability—any quality fluctuations could directly impact fabric performance.

Efforts to boost output and improve yarn quality were limited by existing equipment. Domestic spinning machines had low capacity, and controlling imperfections and ends-down rates in recycled wool was challenging, reducing both quality and efficiency. Raising capacity and quality within the current set-up was also a major challenge.

The Solution

Haoshun conducted multiple trials with different materials at the Rieter spin center. Compared to domestic equipment, the R 37 demonstrated outstanding performance across various indicators, exceeding expectations.

The R 37 offers excellent spinning stability and a low ends-down rate, with a delivery speed up to 200 m/min. Its redesigned spinning box with exchangeable trash channels improves trash extraction and adapts well to recycled wool. Combined with the time-saving AMIspin piecing device, it achieves high production efficiency. The machine is also energy-efficient, featuring a modern drive that reduces operating costs.

Rotor R 37 with over 98% efficiency in stable production.

The Customer's Benefits

Haoshun benefits from impressive advantages thanks to the use of the R 37.

- **Increased Productivity:** The delivery speed of the R 37 is approximately 50% higher than that of domestic equipment. Combined with stable machine efficiency of over 98%, this has significantly boosted production capacity.
- **Optimized Quality:** The yarn produced by the R 37 features a unique structure, achieving lower twist levels while maintaining the same yarn strength. The optimized spinning box minimizes imperfections when processing recycled wool, enhancing spinning stability.
- **Cost Savings:** The R 37 significantly reduces labor demand due to its low ends down rate and high spinning stability. Furthermore, its modern drive concept enables a 20% reduction in energy consumption per ton of yarn compared to similar market models, which leads to effective control of total production costs.

The Customer's Statement

"In this competitive wool market environment, the introduction of the Rieter R 37 has proven to be a successful strategic investment for our company. It effectively addresses our challenges in production capacity and cost by boosting output by approximately 50% while achieving lower energy consumption per ton of yarn. The yarn produced by the R 37 has a unique structure, resulting in a fuller fabric appearance and a softer hand feel of our wool fabrics. It achieves lower twist levels without compromising yarn strength."

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