

Successful Entry into the Coarse-Count Segment with the Autoconer X6



Founded in 2022 as part of Phenix Spinning Pvt. Ltd., Coarser Spinning Pvt. Ltd., the producer of coarse count yarns for denim and towels, was established to strategically expand from commodity medium count yarns (Ne 30s–38s) into the coarse count segment (Ne 4s–16s). To enter this new market segment, the company needed reliable and efficient spinning and winding machines.

The Challenge

With the establishment of Coarser Spinning, the company aimed to move beyond the intense competition of the commodity yarn sector, where many regional spinners produced identical counts. Volatile raw material prices and thin margins made long-term growth increasingly difficult. The coarse count segment offered a clear path to differentiation and access to more specialized applications.

While yarn production was familiar, the real challenge was ensuring stable quality for very coarse yarns using ring spinning technology, achieving efficient high-speed manufacturing, and building market demand for a new product range. This required highly reliable and cost-efficient spinning and winding processes, as well as consistent yarn, splice and package quality, to support the company's growth strategy.

The Solution

Coarser Spinning strengthened its expansion into coarse count production by investing in ten ring spinning machines G 38 directly linked to winding machines Autoconer X6 Type V, creating an integrated Rieter spinning system. Proven industry references provided the confidence to choose a robust, future-ready solution tailored for long-term performance.

The direct-link setup enables smooth, intelligently controlled material flow, ideally suited for short cop running times and the high throughput demands of coarse count spinning. Minimal operator intervention, combined with consistent yarn quality and stable processes, is supported by advanced Autoconer winding technology.

The link system delivers excellent yarn, splice and package quality. This provides the performance and reliability needed by Coarser Spinning to establish itself in this new market segment. It now provides an annual production capacity of 9 600 tons of coarse yarns in addition to 9 000 tons of commodity yarns spun by Phenix Spinning Pvt. Ltd.



Stability and process control for coarse-count spinning with the Autoconer X6.

The Customer's Benefits

With the Rieter link system between ring and winding machine, Coarser Spinning achieves significant gains in productivity and cost efficiency, while its customers benefit from excellent downstream performance. Continuous online process and quality monitoring reduces quality-related stoppages and provides clear guidance for optimizing the ring spinning process. Large packages of over 4 kg enable high unwinding speeds and less handling, increasing weaving efficiency.

Splice quality stands out in terms of strength, appearance, and elasticity, enabled by the OZ2 open prism technology in combination with the Injection Splicer. This solution delivers consistently excellent results across the full range of yarn applications, including demanding elastic core yarns.

Low energy and air consumption, reduced manpower requirements and minimal maintenance effort further enhance overall cost efficiency. Operators particularly appreciate the Autoconer's ease of use, supported by features such as autocalibration function, Smartjet upper yarn search and stable material flow, even under the high load of coarse count production.

Together, these advantages deliver a solid return on investment and provide Coarser Spinning with a reliable platform for sustainable growth in its new market segment.

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The Customer's Statement

"Autoconer X6 offers exactly the stability and process control we need for coarse-count spinning. With smart functions such as SPID, Smartjet and Smartcycle, we have reduced manual effort, stabilized quality and increased efficiency from day one. The combination of Rieter ring spinning and winding machines has enabled us to build a strong market presence in a short time and to deliver high-quality yarns to demanding customers worldwide."

Dharmesh Patel

Owner of Coarser Spinning Pvt. Ltd.

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