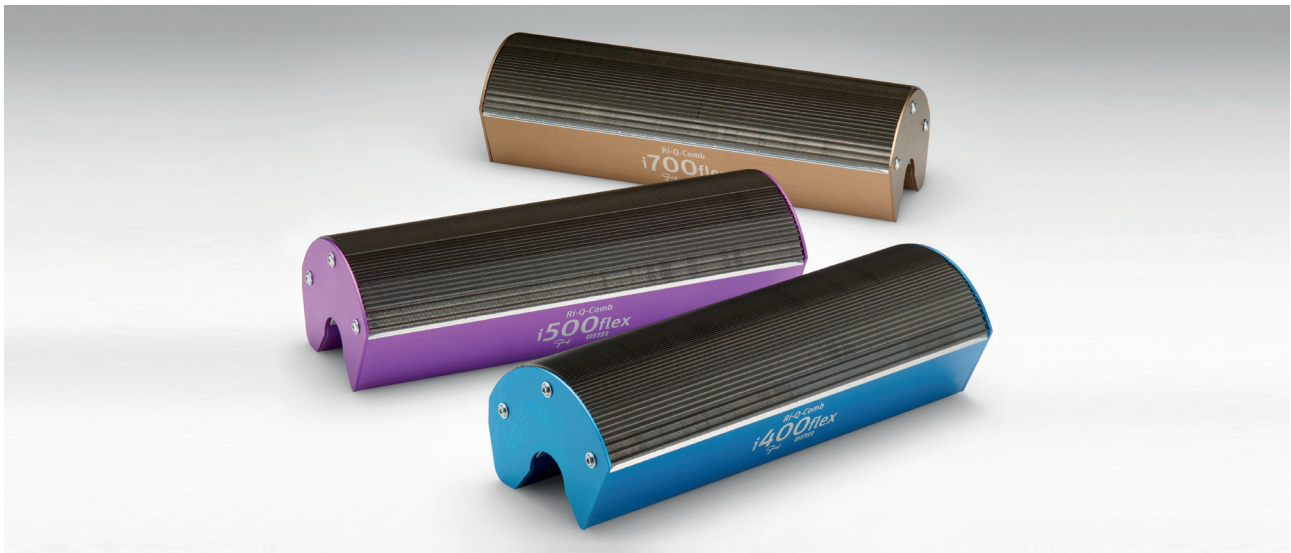


Besler Tekstil Reached 11% Higher Productivity with Circular Comb Upgrade



With Rieter's 130° circular comb platform upgrade, Beşler Tekstil in Türkiye achieved 11% higher productivity, fewer yarn imperfections and improved yarn quality from its existing E 65 combers – reaching quality levels comparable to new machines.

The Challenge

Beşler Tekstil in Türkiye operates a wide range of Rieter combers, from older to the latest generation machines, including E 62, E 65, E 80, and E 86. While the combers E 62 and E 65 had been operating reliably for nearly 18 years, their productivity and quality performance at 500 nips/min could not match the latest-generation comb E 86. To maintain the required yarn quality level, the customer had to operate the E 65 machines at a reduced speed. The goal for Beşler was to meet the needs of cotton spinners in the Turkish market and achieve the targeted improvements in productivity, quality and operational efficiency.

The Solution

Besler Tekstil invested in a modernization solution for the existing E 65 – a comprehensive technology upgrade package to convert the E 65 with 90° circular comb to an advanced 130° combing technology. The upgrade goes beyond a simple change of the circular comb package, as such a standalone conversion would not deliver the full performance benefits. To fully leverage the advantages of 130° combing technology, the package includes the Ri-Q-Comb i500 flex for an increased combing area, as well as the replacement and integration of key technological components. These include the nipper, top comb, comb support, calender module, detaching roller cots, AIRshield, guiding segment elements, ratchet wheels and cleaning brushes.

The Customer's Benefits

Following the 130° circular comb platform upgrade, the customer achieved the following measurable improvements with only a marginal increase in noil extraction of 0.5:

- 11% increase in productivity, with speed increased from 450 nips/min to 500 nips/min,
- sliver unevenness U% reduced by 28%, with a 34% reduction in sliver CVM%,
- 63% reduction in yarn imperfections and
- 7% reduction in yarn hairiness index H.

Even at the same noil extraction level, measurable improvements in sliver and yarn quality can be achieved through the upgraded technology package.

Additionally, maintenance requirements have decreased, leading to improved machine efficiency and higher utilization. Energy consumption has been optimized.

The 90° to 130° circular comb platform upgrade is available for the E 65, E 75, E 66 and E 76 comber models.

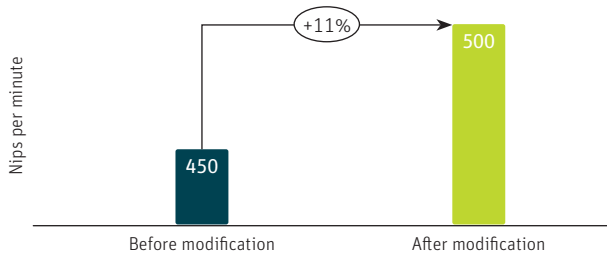


The Customer's Statement

"After the upgrade, we have seen a significant improvement in our yarn quality. When comparing approximately 18-year-old machines with new machines, we observed that the quality is at par. In addition, the replacement of parts has also increased our machine lifetime."

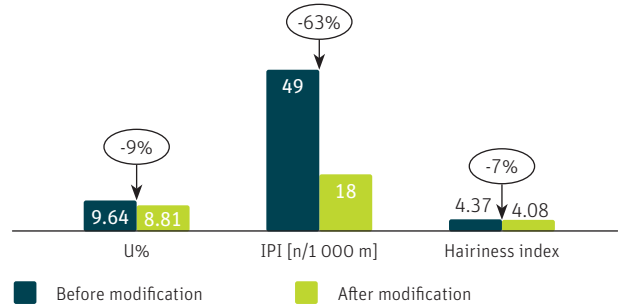
Ertuğrul Terkeşli
Maintenance Chief, Beşler Tekstil

Increased productivity with 130 degree circular comb conversion
Comber E 65, 100% cotton, Ne 30, 18.5% noil



The upgrade of the comber E 65 to a 130° circular comb platform delivered an 11% boost in productivity.

Better yarn quality with 130 degree circular comb conversion
100% cotton, Ne 30, K 48, 17 000 rpm



The 130° circular comb platform upgrade contributed to enhanced yarn quality, with noticeable improvements in U%, IPI, and hairiness index.

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