Reduce Waste and Boost Profits in Spinning

Uster Presents FiberQ and RSO 3D at ITM 2024



Spinners seeking profitable investments for sustainable mill operations should check out Uster FiberQ and RSO 3D. These systems offer attractive ROI by controlling the most expensive stages in the mill process, cutting waste, and boosting profits.

Field tests indicate that comprehensive raw material management can save 0.5% to 2% of waste. This potential for savings is significant for maximizing profitability in yarn production and will be detailed at ITM 2024. Uster experts will be available at Booth 714B in Hall 7 to showcase these systems. If barré faults and quality consistency are major concerns, spinners should read on.

Manage the Big Cost Factor

Raw material accounts for 65% to 75% of the production costs for cotton yarn. Saving even a single percentage of waste can lead to significant cost reductions, such as USD 255,000 (€239,000) per year for a mill with 50,000 spindles, based on Ne 30 yarn with a cotton price of 1.8 USD per kilogram. This savings potential can be realized with Uster FiberQ – a comprehensive solution for raw material utilization that supports daily processes, quality consistency, profitability, and growth.

Optimum sourcing and use of raw material consider inventory levels, required yarn quality, and cotton parameters. FiberQ software simplifies this process, and integrated Uster Application Intelligence cuts through the complexity to unlock maximum potential.

Uster FiberQ works with powerful software, analyzing fiber data from available inventories to create consistent and reliable laydowns for optimum quality and performance. The system uses reliable raw material data measured by Uster HVI1000 and is accessible through a subscription model.

Next-Level Quality

FiberQ combines data-enabled software, cutting-edge hardware, and textile expertise, bringing new perspectives for quality and profitability. Uster experts work with mill personnel to train them and shorten the road from testing to real results.

The FiberQ quality promise is proven in practice. Spinners report significant quality improvements, such as no barré faults and overall IPI quality improvements of over 25%, with greater consistency.

Potential in the Most Cost-Intensive Process

Many Uster customers believe that investing in quality increases profitability. Uster RSO 3D exemplifies a secure investment in the mill’s future. It combines the Uster Sentinel ring spinning optimization system, Uster Quantum 4.0 yarn clearers, and a linked winding machine with spindle identification, offering preventive quality control for textile mills. This system optimizes processes and ensures traceability by achieving three dimensions of quality measurement.

Individual data for each spindle enables quality mapping throughout the ring spinning machine. Poor-quality production is indicated on the spot, allowing for direct machine intervention before winding. This reduces winder stops and clearer cuts, guiding operators to the exact position where an issue is identified for fast action and minimum losses, ensuring maximum profitability.

Typically Uster

Spinners must adopt innovative techniques and technologies to meet business challenges and ensure long-term sustainability and profits. Traditionally, quality management relied heavily on mill personnel's experience and basic tools like Excel files, leading to low data utilization and suboptimal results.

Data-enabled software is key to progress and success. Uster offers reliable measuring systems and powerful software that analyze data from various sources to achieve optimum yarn quality and performance daily.