

Total Contamination Control – for managing remaining contaminants in yarns at minimum possible cost

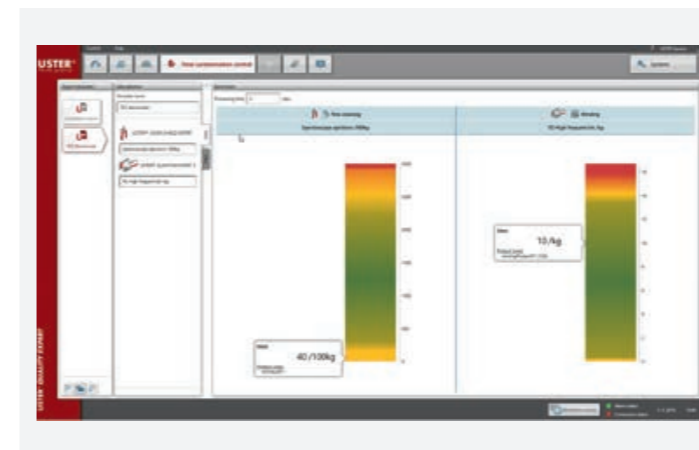
Total Contamination Control means precisely controlled contamination levels in yarns, with minimum waste. USTER is the only single-source provider of this integrated solution.

- USTER® VISION SHIELD EXPERT: targeted blowroom alerts on contamination to trigger early reaction
- Optimization of foreign matter ejections and yarn clearer cuts, to balance efficiency and quality
- Preventive action with direct impact on profitability of ejections and remaining contamination levels



Targeted blowroom alerts for early reaction

Foreign matter contamination is the biggest issue for cotton textile mills, and setting the right ejection levels is a key for minimum waste levels. Smart alerts based on dedicated rules instantly detect changes in ejection levels and save raw material 24/7 in a less complex way. For instance, laydown changes with possible impact on contamination ejections will be recognized and relevant alerts triggered. Individual data is collected and consolidated by USTER® VISION SHIELD EXPERT, which also connects events to trend charts and shows effects over time.



Optimization of ejections and cuts with benchmark reports

Due to the interaction of the initial control with USTER® JOSSI VISION SHIELD and the final control at winding with USTER® QUANTUM 3, optimization is achieved with guidance by USTER Application Intelligence in an intuitive benchmark report. Balancing ejections and clearer cuts, the lowest remaining contamination levels in yarns can finally be controlled at the lowest costs.



Preventive action with direct impact on profitability

Early ejections to control the level of contaminants in fabrics, and yarn classifications to indicate disturbing contamination remaining in yarns, provide potential for optimization. Proactive contamination control helps spinners to prevent faults, while reducing production costs significantly.



USTER® QUALITY EXPERT



USTER® QUALITY EXPERT is available either as a standalone solution via a dedicated client-server – or hosted within USTER® TESTER 6.

USTER® QUALITY EXPERT The Quality Management Platform™

USTER® QUALITY EXPERT is the Quality Management Platform™ for advanced process optimization across yarn manufacturing processes. A single system provides complete control, securing fiber, yarn and fabric quality. A combination of 100% in-line monitoring, precise laboratory testing and integrated intelligence delivers the power to predict potential faults and prevent claims.

USTER's Application Intelligence is the foundation for merging textile application know-how with insightful analytics and connected products. Smart algorithms guide data-based decisions, extending the analytical possibilities as each additional instrument is connected.

USTER® QUALITY EXPERT Value Modules

Alarm center – creates awareness and triggers action

Quality consistency is the goal of every spinning mill, as inconsistent quality results in claims from customers. The alarm center uses the textile Application Intelligence embedded in Assistant Q to make sure that any variation is detected and fixed as early as possible. Assistant Q provides suggestions on what to check and records all proposed solutions, so that each mill can populate its solution knowledge base.

Mill analysis – insightful analytics for data-based decisions

Connecting all spinning processes makes everything transparent and comparable. USTER® QUALITY EXPERT provides full-scale mill analysis which can identify quality and productivity trends, working proactively to prevent faults and foster improvements.

Yarn prognosis – increases credibility between spinners and yarn users

An accurate yarn prognosis ensures customer satisfaction and strengthens cooperation between spinners and downstream processors. Testing of every yarn lot for fabric appearance, pilling and weaving performance is performed with no additional costs and in the most reproducible way. Mutual understanding, based on a common 'quality language', is supported through USTER® STATISTICS – the globally-recognized benchmarks. Ultimately, claims will be reduced.

Total Contamination Control – for managing remaining contaminants in yarns at minimum possible cost

What is the right level of contamination removal? How can you use fiber cleaning and yarn clearing to achieve consistent levels of contamination that will satisfy the requirements of the customer? How do you prevent waste of good material? Total Contamination Control uses the power of USTER® QUANTUM 3 and USTER® JOSSI VISION SHIELD, combined with USTER's long experience in contamination control, to answer these questions in practice.

Ring Spinning Optimization – the link to productivity and quality

Tasks such as finding the right speed settings and the best time for traveler change – while also controlling end-breaks, hairiness and yarn imperfections – require know-how and good control of the ring spinning process. Combining USTER® SENTINEL and USTER® QUANTUM 3 in the Ring Spinning Optimization Value Module of USTER® QUALITY EXPERT provides everything needed to draw the perfect speed curve. This will help to achieve maximum productivity and low energy consumption, with the required yarn quality.