TECHNOLOGY

Contamination control – and other choices for profitability

Uster to present novel solutions at India ITME 2026

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Tackling contamination is a critical quality target in yarn production – and Uster now enables spinners to make the right choices for optimized profitability, with top technology, precise data and integrated analysis across the entire process. The new Uster Contamination Control solution and latest Uster Vision Shield 3i put spinners in command of contaminant removal, ensuring yarn quality, minimizing waste and protecting profits. These exciting developments – and even more news – will be featured at India ITME 2026.

The major gathering of the Asian textile industry in 2026, at India ITME, taking place from December 4 to 9 at IEML, Greater Noida, UP, offers Uster a great opportunity to present its latest innovations: Uster Contamination Control, Uster Vision Shield 3i and Uster Trade.

Starting with raw material

The new Uster Contamination Control concept unites a range of valuable services for spinners in a holistic approach that combines data from the incoming raw material, the fiber cleaning system and the yarn clearers. It's a next-level evolution of the well-proven Total Contamination Control (TCC).

The three-way connection between raw material management through FiberQ, fiber cleaning with Uster Contamination Control (UCC) and yarn clearing with Uster Quantum creates a unique end-to-end solution. It's a comprehensive approach for consistent contamination control and optimized spinning performance – from raw material to yarn.

The raw material is the source of contamination – so that's where the assessment starts. The next step is bale laydown. Finally, the results from these two points are correlated with data from the Vision Shield and the Quantum yarn clearers. UCC now offers this overall data-based analysis to recommend the best possible decisions and settings for mill management.

Furthermore, detailed analysis of mixes and contamination has benefits when assessing the incoming material from suppliers. Mills might be guided to deal with contamination issues at source, potentially by changing their sourcing options. Monitoring laydowns in this way adds even greater value to the spinning operation.

The right level of control – consistently

Contamination control needs to achieve the requested level consistently, regardless of any deviations in raw material or process settings. It all depends on proper monitoring, on-time information and data-based decisions. A holistic view is needed to deliver the right results consistently. With the new Contamination Body feature (analog defect classification for yarn), UCC provides smart limits for contamination, actionable insights, and automated contamination management. These benefits arise from Uster's contamination classification at the fiber cleaning stage.

Cost is obviously another vital factor for successful contamination control. Removing only the really disturbing material is critical. It means minimizing good fiber loss and avoiding unnecessary waste.

Under the 360Q Platform, the new UCC is able to simplify settings management and distribution. Creating the right settings and applying them to multiple machines or a specific mixing is easy, fast and reliable.

Vision Shield 3i – intelligent fiber cleaning



Uster Vision Shield 3i - intelligent fiber cleaning

High-performance detection is the key to proper contamination removal. With the new Vision Shield 3i fiber cleaning system, Uster introduces the next generation of vision systems, including high resolution, sophisticated AI integration – as with an AI-enabled detection system for polypropylene – and other innovative features, while ensuring reduced waste per ejection and low maintenance.

Uster has now developed SpecFusion technology, combining multiple detection sensors and intelligent multi-wavelength illumination to support more reliable contamination detection and optimum cleaning performance.

With the Vision Shield 3i spinners can detect everything, from colored objects to transparent polypropylene (PP), with greatest accuracy, regardless of size and intensity. This gives the option of either removing the unwanted material or deciding what is an acceptable level of ‘disturbing’ fragments in relation to the waste created.

To achieve optimum cleaning with minimum waste, spinners can apply settings tailored to the specific Contamination Body. The Contamination Body follows the concept of Uster’s unique and successful Yarn Body for yarn clearing. It helps to identify the potential for further optimization, while also allowing them to assess the impact of any setting changes on ejection levels.

Every Vision Shield 3i can connect with Quantum and also to 360Q. There the well-known raw material solution of Uster FiberQ operates, so the three systems can share data with a common analysis tool. All data is collected and is available anywhere in a complete eco-system.

Uster Trade – quality ranking for the competitive edge

Uster Trade is the new solution supporting mills in continuously improving overall quality consistency and ranking to demonstrate their value to customers, thereby creating a competitive advantage.



Uster Contamination Control for optimum clearing at minimum cost

Uster Trade continuously monitors quality consistency and highlights deviations early, enabling faster corrective actions and more reliable production output. By continuously monitoring quality consistency and providing end-to-end traceability for root-cause analysis and claims handling, Uster Trade allows for faster issue resolution and more stable production performance.



Uster Trade gives mills a competitive advantage

Spinners can benefit from a digital service that includes quality consistency standards and a quality ranking tool, enabling them to prove the overall quality in terms of fabric appearance and performance. In this way, Uster Trade helps mills produce better, control better, and sell better.

Quality in spinning – the comprehensive approach

Uster offers a unique view of quality from fiber to fabric. Visitors to the upcoming India ITME are warmly invited to discover the latest Uster solutions for quality management and contamination control in particular. They can get first-hand information directly from Uster experts at Booth C18 in Hall 11.