

USTER® HVI 1000

**ACCURATE ANALYSIS –
STANDARD CLASSIFICATION**

THE FIBER CLASSIFICATION AND ANALYSIS SYSTEM



USTER®
Think quality

HIGH-SPEED COTTON CLASSIFICATION



COST CONTROL IS CRITICAL IN TODAY'S SPINNING INDUSTRY

What is the largest component of a spinning mill's cost? Raw material cost! How do you know you are purchasing the right material at the right price? By employing the USTER® *HVI 1000*, the standard cotton measurement instrument applied in international cotton trade worldwide. The USTER® *HVI 1000* series operates on the industry-standard platform used in major cotton classing operations around the world.



COTTON CLASSIFICATION – WORLDWIDE APPLICATION

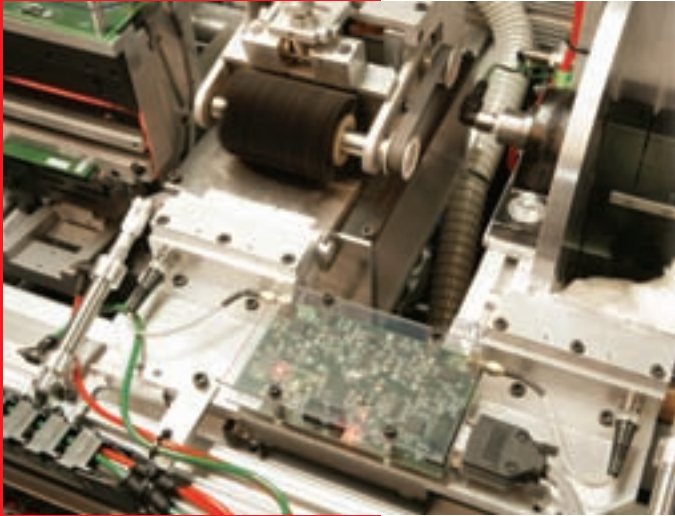
The USTER® *HVI 1000* is the only standard that is accepted worldwide in cotton classification. Government classing operations like those in China and the United States, as well as private classing offices and cotton purchasing departments, count on the USTER® *HVI 1000*. Cotton producers, ginners, traders and spinners specify, evaluate and select cotton according to the quality standards of USTER® *HVI 1000*.



WHEN DATA QUALITY IS MOST IMPORTANT

Standard measurements of fiber length, uniformity, strength, micronaire, color and trash assist you in selecting the right cotton for your end product. Information on short fibers, cotton maturity and sample moisture content provide important additional information when evaluating a specific cotton type. All are designed to help you make the right decision when buying or selling cotton.

**BETTER MARGINS BY
BETTER FIBER UTILIZATION**



INNOVATIVE SOLUTIONS FOR SUPERIOR PERFORMANCE

The secret of success for the USTER® HVI 1000 is innovation. Measuring cotton sample moisture accurately, and correcting fiber length and strength results is a powerful tool in reducing sample conditioning time, and reducing variations between laboratories. The USTER® HVI 1000 takes this concept to a higher level by the all-new measurement of fiber moisture directly in the test zone.



LONG-TERM PRECISION AND ACCURACY

To guarantee long-term precision and accuracy of data, in keeping with the HVI 1000 platform, automatic self-diagnostic features are included that enhance instrument stability. Proven technology combined with the latest innovations result in information you can rely on.

Continuous innovations from Uster Technologies ensure that high-performance cotton classing is an advantage that you can depend on.



THE OPTIMUM SOLUTION FOR HIGH-THROUGHPUT ORGANIZATIONS

The USTER® HVI 1000 M700 is designed to meet the needs of spinning mills that require to know all the important quality parameters currently used in the cotton trade. With a throughput of 700 samples per 8-hour shift, using proper sample management procedures, the USTER® HVI 1000 M700 provides critical quality information now at twice the throughput of previously available systems.

The USTER® HVI 1000 M1000 is designed to meet the high-throughput requirements of large spinning mills. It measures all the important quality parameters currently used in the cotton trade: Micronaire, fiber length, length uniformity, strength, color, and trash. Additional information on short fibers, cotton maturity and sample moisture content are also provided. These parameters are measured with the highest degree of accuracy and precision, meeting contract specifications.

ESTABLISHED STANDARDS
PROVEN ACCURACY



CLASSIFY COTTON RAPIDLY AND ACCURATELY

The throughput capabilities of the USTER® *HVI 1000 M1000* are unmatched in the cotton industry today, which can test up to 1000 samples per 8-hour shift using proper sample management procedures. Automatic self-diagnostic features enhance the overall instrument performance. The USTER® *HVI 1000 M1000* is the optimum solution for mills using a large amount of cotton, and needing to classify them rapidly and accurately.



PROVEN COMPONENTS SUPPORTING BETTER BUYING DECISIONS

Standard measurement levels can only be maintained by using proven components, such as the USTER® *FIBER COMB* used exclusively in the USTER® *HVI* systems. Innovative solutions, such as the highly automated operation, continue to enhance the overall instrument performance.

Improved and unique algorithms, developed using the vast experience in cotton fiber testing residing within Uster Technologies, add additional value for the customer. The amount of short fibers (SFI) is indispensable to predict what waste levels can be expected in the spinning process. It also indicates how aggressively the cotton has been ginned.

The maturity index supports better evaluation of the micronaire, especially for cottons from different growth areas. This can help in preventing barré in fabric. The sample moisture content provides essential information when evaluating USTER® *HVI* measurement results. All this additional information is designed to help you make better raw material choices.



CONSISTENT RESULTS – MATCHING INTERNATIONAL STANDARDS

The best innovations are just as good as the results they produce. The USTER® *HVI 1000* measures cotton within internationally accepted standard tolerances for accuracy and precision. This is the basic requirement for being the worldwide standard in HVI testing for cotton classification. The USTER® *HVI 1000* provides stable and precise quality information for professional raw material selection and buying decisions.

THINK QUALITY,
THINK USTER®

USTER® HVI 1000

KEY FACTS IN BRIEF

- World standard in cotton classing.
- Highest throughput in the industry.
- Proven technology for long-term accuracy and precision.
- Measures all the critical cotton fiber parameters used in cotton trade.
- Unique color measurement technology.
- Unique moisture measurement sensor.

USTER® HVI 1000

ADDITIONAL BENEFITS



Raw Material



Different weather, soil and harvesting conditions result in different cotton quality every year. Raw material costs make up 50–70% of the yarn manufacturing cost. Thus, knowing its quality is vital.



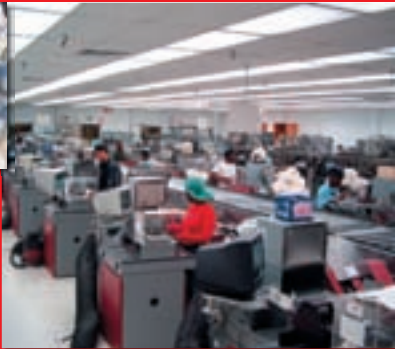
Optimized Laydowns



Proper opening and mixing can only be achieved by first knowing individual bale quality. Only consistent raw material quality will result in consistent process and yarn quality.



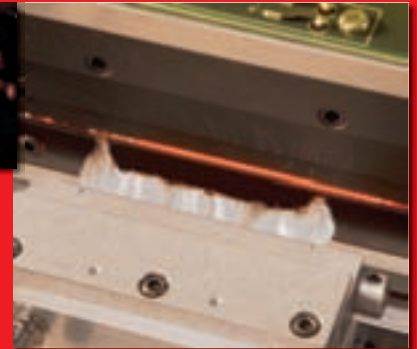
Classing Operation



Knowing the exact quality of every cotton bale is of utmost importance when marketing and purchasing cotton. Classing organizations use USTER® HVI – making it the “common language” for cotton quality in the textile industry world-wide.



Manual Classing vs. Instrument Classing



Cotton classing requires expertise and knowledge. Although cotton classers are experts in their field, it is difficult to make them agree. The USTER® HVI provides accurate and precise measurement of all important cotton quality parameters – every day, 365 days a year.



Data Analysis



Data analysis made easy. Histograms allow for better data evaluation of a large number. The USTER® HVI 1000 is the standard tool determining these quality differences in the annual cotton crop.

The Standard from Fiber to Fabric

USTER® is the world's leading supplier of total quality solutions from fiber to fabric. USTER® standards and precise measurement provide unparalleled advantages for producing best quality at minimum cost.

USTER® – Think Quality

Our commitment to state-of-the-art technology ensures the comfort and feel of the finished product – satisfying the demands of a sophisticated market. We help our customers to benefit from our applied knowledge and experience – to think quality, think USTER®.

Broad Range of Products

USTER® occupies a unique position in the textile industry. With our broad range of products, we have a wide reach across the textile chain that is unmatched by any other supplier in the market.

Optimal Service – Complete Satisfaction

Know-how transfer and instant help – we are where our customers are. A total of 200 certified service engineers worldwide grants fast and reliable technical support. Benefit from local know-how transfer in your specific markets and enjoy our service à la carte.

USTER® STATISTICS – The Textile Industry Standards

We set the standards for quality control in the global textile industry. With USTER® STATISTICS we provide the benchmarks that are the basis for the trading of textile products at assured levels of quality across global markets.

USTERIZED® – Brand Your Products with Quality

USTERIZED® stands for “defined quality assured” within the textile chain. We invite selected customers to join the USTERIZED® Member Program. More information at www.usterized.com.

USTER® Worldwide

With three technology centers, six regional service centers and 50 representative offices around the world, USTER® is always sure of delivering only the best to its customers. USTER® – committed to excellence, committed to quality. And that will never change.



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USTER®
Think quality