




Initiatives in International Instrument Cotton Classing

Hossein Ghorashi
Uster Technologies, Inc.




Phases in Evolution of the United States Cotton Classing System

- 1. Financial support was secured
- 2. Solutions to logistical challenges were found
- 3. First generation of high volume instruments were developed that could measure fiber qualities rapidly and accurately.
- 4. The relationships between manual classing and instrument data were researched. Calibration cottons and other mediums were developed that linked the past standards to the instrument measurements.




Phases in Evolution of the United States Cotton Classing System

- 5. Growers had to be shown that this system could bring higher value for their cotton through a) more accurate and repeatable data and; b) higher resolution for cotton qualities.
- 6. Trade had to be shown that such a system provides more accurate and timely information. The additional fiber quality information was an added benefit for marketing and use of cotton.
- 7. Both segments had to be convinced of the integrity of the system's operation and performance of classing




Keys to Successful Instrument Cotton Testing (reviewed in 2004)


- Accurate and reliable instruments
- Innovations in Automation Compensation for Laboratory Climatic Changes
- Effective Training for Use and Applications
- Development of Standards, Statistics and Certification Programs
- Comprehensive Technical and Service Support



USTER® HVI Annual Report
Installations Worldwide – 2005



Current Total: > 1770 HVI in 71 countries
Overall Total : > 2250 HVI in 25 years



USTER HVI 1000
“L” Configuration




USTER HVI 1000 "straight line" Configuration



USTER
Textile Analytics

Uster HVI 1000 Classing New Developments

- New moisture sensor designed into the test zone measures directly the moisture content of fibers that are tested for length and strength qualities
- Automatic self diagnostics measures HVI critical parameters, analyses and reports locally and remotely

USTER
Textile Analytics

USTER® HVI SPECTRUM Moisture Measurement

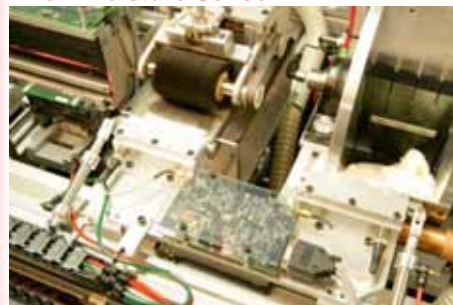
moisture
sensor

Total sample is tested for
moisture content



USTER
Textile Analytics

USTER HVI 1000 New Moisture Sensor



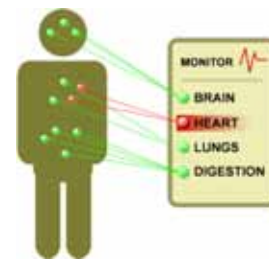
USTER
Textile Analytics

USTER HVI 1000 Moisture Sensor



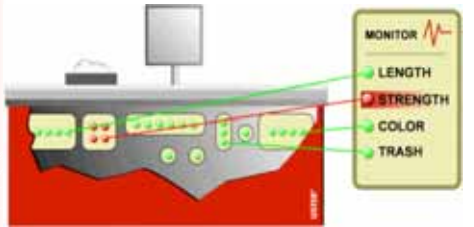
USTER
Textile Analytics

Monitoring Human's vital signs and
reporting the anomalies for immediate
attention.



USTER
Textile Analytics

Monitoring HVI critical parameters such as calibration, voltages, sensors and key dimensions periodically and reporting problems locally and remotely



13

Report on a New Instrument Classing Initiative in China

Progress Summary :

- 45 Textile Technologists trained
- 102 technicians trained
- 85 HVI installed
- 53 classing laboratories
- Total HVI 378 by 2010
- Total classing laboratories >100
- Research on relationships between HVI and current standards

USTER
Textile Quality

14

Thank you!

USTER
Textile Quality

15