

Leading products in Quality measurements and certification for textile industry

Presented by: Eng. May Ragab
October , 2015

12th Meeting of the Inter-Regional Cooperative Research Network on Cotton for the Mediterranean and Middle East Regions
Sharm El-Sheikh, Egypt

CATEC

(Consulting And Technical Engineering Company)

Reliable Engineering Solutions Worldwide

CATEC's Organization

<input type="checkbox"/> President & CEO	1
<input type="checkbox"/> Vice President	1
<input type="checkbox"/> Top management	4
<input type="checkbox"/> Sales	3
<input type="checkbox"/> Service	27
<input type="checkbox"/> Financial	2
<input type="checkbox"/> Administration	15



Total : 53 full-time employees

(plus dozens more as part-time or sub-contractors during big installation projects)

- CATEC is a shareholders company.
- CATEC was founded in 1980 as "SAPO", then renamed to "CATEC" in 2001 and reformed into a corporation.
- CATEC an engineering, agency and service company, with over 35 years of experience in 40+ countries worldwide.
- CATEC has hundreds of customers in Egypt, and 150+ worldwide .
- CATEC has more than 50 full-time employees (mainly engineers).
- CATEC head office is based in Alexandria, with three other offices in Egypt and a temporary office in Canada.
- CATEC has a workshop & yard in Borg El-Arab, Alexandria.
- CATEC owns a fleet of containerized mobile boiler systems for rental throughout the MENA region. (mainly to oil & gas companies).

- CATEC scope of work involves consultation, sales, agency, turn-key projects, installation & piping, start-up & commissioning, trouble-shooting, service and maintenance.
- CATEC has a unique and long-term experience in textile-finishing machinery & testing equip, industrial boilers, industrial lubricants, and portable pumps.
- CATEC entered the Renewable Energy field in 2013 and currently provides Solar PV, CSP, and thermal solutions in cooperation with German partners.
- CATEC customers in Egypt include reputable names such as ExxonMobil, Schlumberger, PepsiCo, Nestle, Unilever, Henkel, Heinz, Mars, Pfizer, Sukari Gold Mines, Jolie Ville Hotels, Amreya Cement, Talaat Mostafa Group, Nile Linen Group, Oriental Weavers Group, Ezz Steel, Abu Zaabal and many others.
- CATEC is the official exclusive agent/partner in Egypt for several first-class global manufacturing leaders in Europe (mainly German).

CATEC represents the following suppliers:

1. Industrial/Commercial Boilers

- | | | |
|----|--|---------------------------|
| a. | BOSCH Industriekessel, Germany (formerly LOOS)
www.bosch-industrial.com
(exclusive agent in Egypt, Libya & Sudan since 1983) | Steam & hot water boilers |
| b. | Inplan, Germany
www.inplan-gmbh.com | Thermal-oil boilers |
| c. | Dreizler, Germany
www.dreizler.com
(exclusive agent) | Industrial burners |



2. All industries

a. Klüber Lubrication, Germany
www.klueber.com
(exclusive agent since 1982)

Special lubricants & greases



b. Chem Trend, Germany
www.chemtrend.com

Lubrication for die-casting products



c. Lutz Pumpen Germany
www.lutz-pumpen.de
(exclusive agent since 1985)

Pumps & pump systems



3. Textile Industry

a. Uster Technologies AG,
Switzerland
www.uster.com
(exclusive agent since 1994, & Peyer before USTER since 1978)

Testing and control lab equip. for spinning & winding



b. Bianco, Italy
www.bianco-spa.com
(exclusive agent since 1985)
c. Brugman, Holland
www.brugman-holland.nl
(exclusive agent since 2000)
d. Vaid Henriksen, Holland
www.henriksen.nl
(exclusive agent since 2001)
e. Vanwyk Systems, Holland
www.vanwyk.nl
(exclusive agent since 2000)
f. Strayfield, England
www.strayfield.co.uk
(exclusive agent since 2000)
g. Dunline Rubber Products Co., Canada
www.dunline.com
(exclusive agent since 1997)
h. Rensch Guarnieri, Italy
www.renschguarnieri.com
(exclusive agent since 2000)

Machines & equipment for textile finishing
Wet-finishing machinery
Jigger dyeing machines
Chemical & dispensing systems
Radio frequency drying
Rubber belts for sanforizing & shrinkage machines
Calender machines



i. Sirtres, Italy
www.sirtres.it
(exclusive agent since 2000)
j. TDF Textape, Italy
www.textape.it
(Alexandria agent)
k. Cabotex, Italy
www.cabotex.it
(Alexandria agent)
l. Inter spare, Germany
www.inter spare.com
m. ICOMATEX, Spain
www.icomatex.com
n. Sedo Trepoint, Germany
www.sedo-trepoint.com

Calender racolan coating
Rubber coating strips
Yarn and fabric dyeing machines
Spare parts
Stenter machines
Integrated systems for finishing equipments



4. Renewable Energy

a. JUWI, Germany
www.juwi.com
(official partner)

Solar PV on-grid & off-grid



b. AkoTec, Germany
www.akotec.eu

Solar thermal solutions

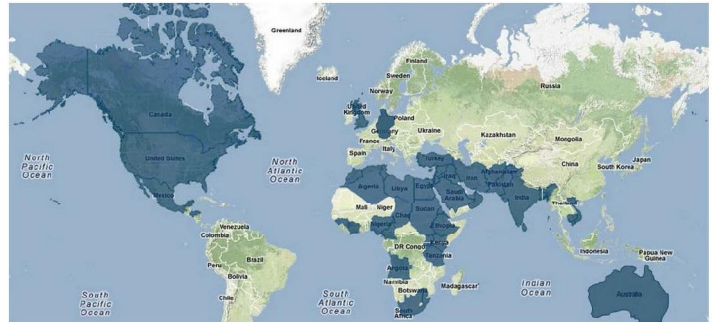


c. Industrial Solar, Germany
www.industrial-solar.de

Solar CSP



CATEC has hundreds of customers in Egypt, and 150+ in more than 40 countries worldwide!



Afghanistan, Algeria, Angola, Australia, Bangladesh, Cambodia, Cameroon, Canada, Chad, Congo, Côte d'Ivoire, Cyprus, Egypt, England, Eritrea, Ethiopia, Germany, Guinea, Honduras, India, Iran, Iraq, Israel, Jordan, Kenya, Lebanon, Libya, Mauritius, Mexico, Morocco, Nigeria, Oman, Pakistan, Saudi Arabia, South Africa, Sri Lanka, Sudan, Syria, Tanzania, Tunisia, Turkey, UAE, Uganda, USA, Vietnam

USTER®

Think quality

USTER – Short summary

"We are the world's leading supplier of total textile quality solutions from fiber to fabric"

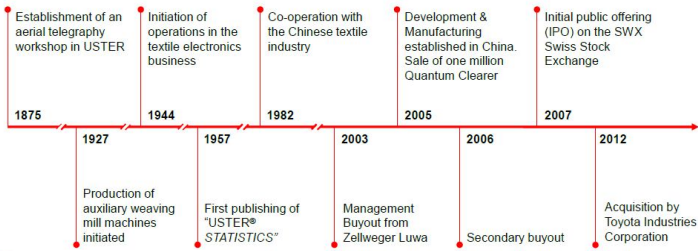
THINK QUALITY – THINK USTER®

USTER®
Think quality

- Helps textile industry to manage and improve quality.
- World leader in electronic testing and quality management across the textile industry's supply chain.
- Over 60 years of experience in high-end electronic testing systems.
- Long-established USTER® STATISTICS database is undisputed industry standard.
- Serving more than 4000 customers in 75 countries.
- More than 2.5 million systems installed worldwide.
- Best brand name for quality testing products with strong history of innovation.
- Physical presence across the world with more than 500 employees and technology centers in USTER's key supply markets Europe (Uster, Switzerland), North America (Knoxville, U.S.), Asia (Suzhou, China).

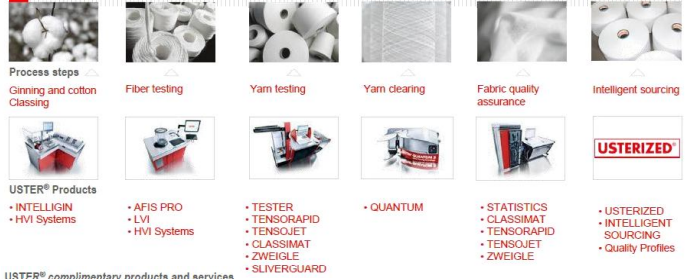
USTER - A company with a history

A proud heritage and an unmatched reputation in the textile industry



USTER® complete product offering

Improving quality across the entire value chain
A wide product offering covers the textile production chain



USTER® complimentary products and services

Integrated Data and Expert Systems

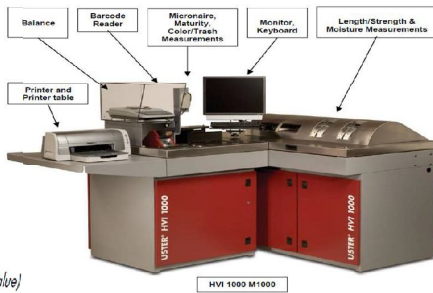
USTER® STATISTICS and USTERIZED®

After-Sales Services and Textile Technology

USTER® HVI 1000

The fiber classification and analysis system

- Length
- Strength
- Length Uniformity
- Elongation
- Micronaire
- Color
- Trash
- Moisture
- Short Fiber Index (SFI)
- Maturity
- Spinning Consistency Index (SCI)
- Neps
- Ultra-Violet (UV) Reflective or Fluorescence (UV Value)



USTER® AFIS PRO 2

The fiber process control system

- **Nep Classification**
 - Fiber neps and seed coat neps
 - Count and size distribution
- **Length and Maturity**
 - Length by weight and by number
 - Short fiber content
 - Maturity ratio
 - Immature fiber content
- **Trash**
 - Dust
 - Trash
 - Total foreign matter
- **AutoJet**



USTER® LVI

The cost-effective alternative
USTER® LVI Low Volume Instruments are a cost-effective alternative for customers who want to test only one specific cotton quality parameter with USTER® precision.



USTER® AN100 NEP TESTER
The USTER® AN100 NEP TESTER measures neps and critical nep size. It uses the same measurement principle as the AFIS. Neps can seriously impair yarn quality. So, nep count and size data helps with maintenance and machine settings.

USTER® LVI 760 COLOR/TRASH METER
The USTER® LVI 760 COLOR/TRASH METER measures the color and trash levels of cotton. It uses USTER® HVI sensor technology. Color differences can show up later in dyed fabric. And trash variations can affect spinning efficiencies and cause yarn and fabric defects. Monitoring these properties at purchasing and processing is the way to ensure quality and control costs.

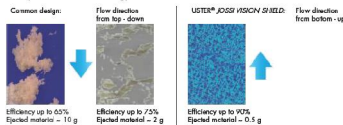
USTER® LVI 730 FIBROGRAPH
The USTER® LVI 730 FIBROGRAPH measures fiber length, length uniformity and short fiber. It uses the same measuring principle as the HVI®. Fiber length is a major factor in yarn evenness, strength and spinnability.

USTER® LVI 380 FIBREFLOW
The USTER® LVI 380 FIBREFLOW measures the intensity of fluorescence of cotton fiber at the ultraviolet wavelength. Measuring color alone is not enough – since fluorescence is a major cause of barrel faults in grey and dyed fabric.

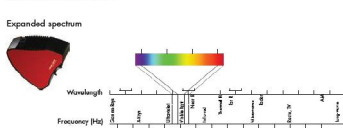
USTER® LVI 775 MICRONAIRE
The USTER® LVI 775 MICRONAIRE measures cotton fiber micronaire. It uses the same measurement principle as the HVI®. Micronaire is important in blending of cotton bales at the laydown. Checking it helps to prevent yarn and dyeing defects.

USTER® JOSSI VISION SHIELD

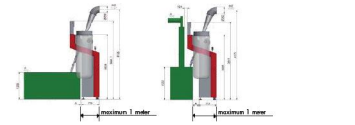
Comparison of seedtechnology



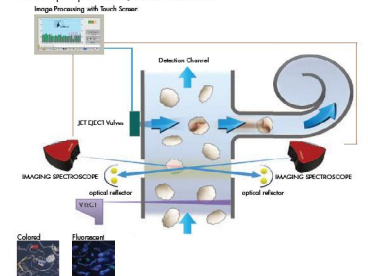
IMAGING SPECTROSCOPE



USTER® JOSSI VISION SHIELD can be connected to all major brands of fine cleaners



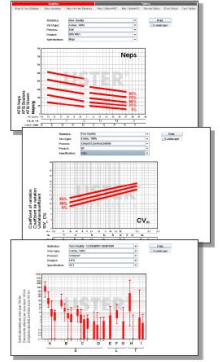
Functional principle - USTER® JOSSI VISION SHIELD



USTER® STATISTICS

Industry benchmarks as universal quality language

- Comprehensive database of textile quality measurement statistics
- Result of 50 years of continuous world-wide data collection of fiber and yarn quality characteristics
- USTER® STATISTICS provide a unique value to the industry:
 - **Industry standards:** The statistics are THE compendium of all important quality characteristics needed to specify fiber and yarn – the universal quality language.
 - **Currency of the market:** The statistics allow producers and trading partners to compare the quality of a given product with a world-market level – the acknowledged industry benchmark
- USTER® STATISTICS are a significant driver behind the demand for USTER®'s systems:
 - Only USTER® systems are acknowledged to ensure compatibility with these statistics - correlation with historical data is unmatched by any competitor.



The USTERIZED® seal of quality

USTER® clients can emphasize their competitive difference

- The USTER® brand name is synonymous with quality in the textile industry – acknowledged throughout the industry.
- The USTERIZED® seal stands for quality yarn tested and cleared with USTER® products
 - allows manufactures to brand their products with a well known seal of quality.
 - provides a higher level of assurance for customers.
- Large retailers and manufacturers expect all their fabric's yarns to be from USTERIZED® spinning mills.
- USTERIZED® spinning mills are present in all main producing countries of the world.



"The USTERIZED® concept offers accreditation for customers operating at constant quality levels."
Textile Month

"The USTERIZED® certificate ensures that certified companies always and constantly meet the criteria for the 'USTERIZED®' label."
Asian Textile Journal

"If you can afford it, the first choice is always USTER."
USTER® competitor

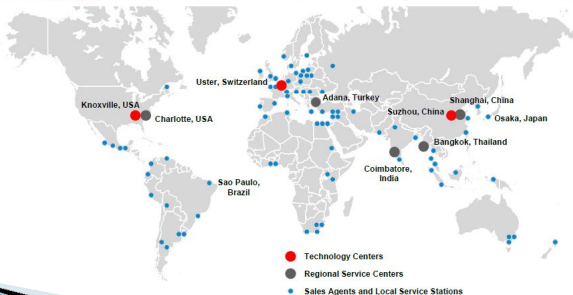
USTER global presence

A global network of facilities and relationships, totaling over 500 employees world-wide

3 Technology Centers

5 Regional Service Centers

50 Agencies



Cover Story

A New Era in Yarn Clearing

USTER® Customer feedback underlines the impact and benefits of the new-generation USTER® QUANTUM 3
Think quality

USTER® QUANTUM 3 – exceptional accuracy in PP clearing (Customer experience, Spinalex, Egypt)



After the trial, Eng. Refaat Helal, chairman and managing director of the Spinalex was convinced by the performance of the USTER® QUANTUM 3 and its PP clearing feature.

"Quantum 3 could remove even the smallest PP defects without adding unnecessary cuts that would affect production efficiency"
Eng. Refaat Helal
Chairman & Managing Director
Spinalex, Egypt



ITMA 2015 Milan

Visit USTER in hall H2, booth D104.



USTER®
Think quality

ITMA 2015
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