

ITMA 2011 – Curtain Raiser -II



By:

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ITMA - the International Exhibition of Textile Machinery - has been held every four years since 1951. It is the world's largest international textile and garment machinery exhibition, an event which is owned by CEMATEX. ITMA is recognised as the Olympics of the textile and garment machinery industry.

To expand opportunities for exhibitors and visitors' participation, Fibre2fashion.com has launched "Online ITMA 2011" to promote companies who are exhibiting in ITMA Barcelona. A good number of participants have taken part in the Online ITMA-2011.



**Hall No.1
Booth No. C101**

USTER® *QUANTUM 3* featuring Smart Clearing Technology

Uster Technologies presents at the ITMA 2011 in Barcelona the ground-breaking third generation of its best-selling USTER® *QUANTUM* clearer system. This latest state-of-the-art quality assurance technology allows textile manufacturers to optimize production efficiency and reduce costs, making it an indispensable tool in quality-oriented spinning plants.

Smart Clearing Technology

The USTER® *QUANTUM 3* is the passport to a new world of yarn quality. USTER® *QUANTUM 3* measures, analyzes and proposes how the yarn on the winding machines can best be tailored to the spinner's quality and productivity needs. USTER® *QUANTUM 3* is USTER®'s most advanced clearer yet, packed with future-oriented technology.

Powerful new capacitive, optical and foreign matter sensors are at the core of the USTER® *QUANTUM 3*. They can see everything, in greater detail than any previous yarn clearer generation. In combination with powerful processing electronics, for the first time ever, the system shows the full yarn body. (The yarn body is the normal yarn with its set of expected tolerable natural variations). The new foreign matter sensor has multiple light sources, to detect new colored foreign fibers and to help separation of colored foreign fibers from mostly non-disturbing vegetable matter. The powerful contamination package of the USTER® *QUANTUM 3* is completed by a brand new Polypropylene clearing option. Thanks to technological improvements, USTER® *QUANTUM 3* has proven in several trials a multifold increase in PP detection rates.

It's not only the sensor technology that has progressed to the next level. The USTER® *QUANTUM 3* also has a new central clearing unit with 14-inch touchscreen and a bigger and faster memory. This unit can communicate in real-time with the new-generation USTER® *QUANTUM EXPERT SYSTEM* - allowing, for example, comparisons of changed clearing settings at any winder, and synchronization across similar yarn lots.

Tough clearers for tough environments

The USTER® *QUANTUM 3* is both larger and more robust than any previous clearer. Tough on the outside, its new design will stand up to the most demanding mill environments and provide a long service life. Improvements include a better sealed clearer core to keep out dirt and dust, as well as reinforced sensors to cope with vibration. Another improvement is the Foreign Fiber sensor, which is wider than before. Along with new air blowing arrangements, this reduces dirt build-up at the sensor from both the yarn and the air supply.

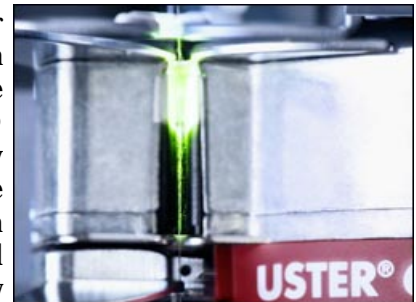


Smart and radically simple to use

USTER® *QUANTUM 3* learns everything it needs to know about the running yarn in just two minutes. Then, drawing on its built-in USTER® know-how, it proposes suitable clearing limits to achieve the required quality level. Smart technology enables the USTER® *QUANTUM 3* to forecast exactly how many cuts will need to be made to reach quality goals. The number of estimated cuts gives spinners valuable information to help them define the optimum clearing limit for the perfect balance of quality and productivity.

Capacitive or optical sensors

With a choice of the most advanced capacitive and optical sensor technologies, USTER® *QUANTUM 3* is ready for any application and environment. While the advantages of the capacitive technology are well known, the optical sensor of USTER® *QUANTUM 3* has been redesigned and has been substantially enhanced. Both the capacitive and the optical basic clearer 'see' the full yarn body and provide all smart clearing features, which include proposing clearing limits based on the yarn body and providing cut forecasts. USTER® *QUANTUM 3* sets a new benchmark for clearing performance, whether for carded yarns, compact-spun, air-spliced or water-spliced yarns.



Dr Geoffrey Scott, CEO of Uster Technologies Ltd., comments: "We are delighted to demonstrate USTER®'s technological leadership with the launch of the ground-breaking new generation of our USTER® *QUANTUM* clearer. We are confident that this product, available with optical and capacitive sensors, will set new accuracy standards in quality measurement within the industry."



Hall No.4
Booth No. A118

Micro Modal®

The world's softest fiber:

- ideal for light textiles next to the skin
- softness and color brilliance remain even after repeated washing
- sustainably produced in Austria from renewable raw materials (European beech wood)
- made with 85% renewable energy (from waste wood and by-products of cellulose production).

Micro Tencel®

Natural comfort and performance:

- inherent moisture movement due to high moisture absorption
- inhibits the growth of bacteria naturally without any addition of chemical substances
- produced from FSC-certified Eucalyptus wood
- award-winning for environmental friendly fiber production in a closed loop process
- smooth fiber surface for a minimum skin irritation

Supima® Cotton

Extra long staple Supima cotton is perfect for high quality products and provides considerable advantages:

- highest strength
- fine, long fibers (35mm)
- smooth touch, brighter colors
- extremely low foreign fiber contamination



Hall No.7
Booth No. B117

Durst Kappa 180 - High-performance Inkjet digital printer for the textile industry

Durst Kappa 180 is a genuine alternative to flat bed screen printing and with a printing speed of more than 600 sq.m./hour (over 300 running meters) and outstanding printing quality (1056x600 dpi), it is the new premium product in the textile printing sector. The Kappa 180 has been developed on the basis of Durst's proprietary Quadro printhead technology at company's Development Center in Kufstein, Austria, to meet the specific requirements of the textile industry with "QuadroZ". The own high-grade inks (Kappa Inks) for textile printing were developed in the Durst Research Center in Lienz, Austria, to print on different textile fibers with absolutely

environmentally friendly, water-based dispersion, reactive and acid inks using the QuadroZ Arrays.

Printing System:

Durst Kappa 180 has fully automatic feeding-in and guiding facilities for textiles with a maximum printing width of 195 cm and a printing blanket with an integrated washing system. The drying unit is a hot air dryer powered by gas, steam or electricity. The modified Durst Quadro Array technology, makes it possible to print on textiles by way of a specially hardened, fray-resistant nozzle plate with a drop size of 7-21 picoliters 6,144 jets per color produce a resolution of up to 1680 dpi, while a single automatic nozzle cleaning system ensures uninterrupted operation.

Workflow Features:

- Durst Advanced Remote Diagnostics (DARD™) - Monitors all relevant parameters e.g. printheads, humidity, temperature, tension and much more to prevent unplanned downtimes and maintenance work
- Durst Advanced Stroke Control (DASC™)
- Durst Advanced Print Control - (DAPC™)

Productivity:

- High-Speed Mode: Printing speed of more than 600 sq.m./hour with an inking rate of 7g/m² and a resolution of 1056x600 dpi
- High-Quality Mode: Printing speed up to 320 sq.m./hour with an inking rate of up to 14g/m² and a resolution of 1056x600 dpi

Colors:

8 colors in CMYK, orange, red, blue and gray, with no modulations or density fluctuations. A key role is played here by the ink delivery system with the osmosis filtering system, which eliminates the tiny gas bubbles in the inks and ensures that the printing is constant and failure-free

Inks:

The own developed Kappa Inks can be printed with absolutely environmentally friendly, water-based dispersion, reactive and acid inks on the different textile fibers:

- Kappa Ink R (Reactive Ink System) for cotton and cotton mixtures with more than 60% cotton
- Kappa Ink D (Dispersion Ink System) for synthetic fibers, polyester and polyester mixtures with more than 50% polyester
- Kappa Ink A (Acid Ink System) for silk and silk mixtures

Printing Technology:

Piezo Inkjet Multipass

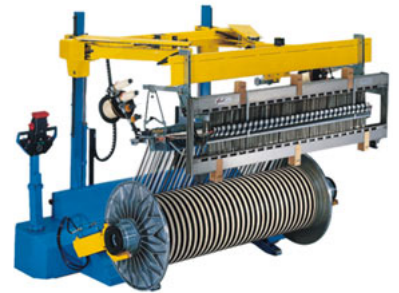


**Hall No.3
Booth No C201**

Completely motorized Quick style change trolley: ET 2001 - QSC

ET 2001-QSC incorporates many of the best solutions, from the entire range of Prashant Ferber's electronic material handling trucks.

Complete with 2 motorwheels, power-steering, hydraulic extendable forks and mounting capability, it transports and style-changes drawn patterns in the loom. The whole operation is managed by only one operator. It also operates the truck using a wireless remote control.



Needle loom with Top mounting Piezo Jacquard



This narrow width needle loom works on Piezo Technology (Patented Bi-Morph-Actuator). The advantages are no hooks and no solenoid hence no heat. Module itself is separated into 2 Parts. Actuator and gear for easy maintenance without effecting harness. It is provided with simple and user friendly touch screen controller

Lasertronic Sectional Warping machine

Highly sophisticated sectional warper ideal from coarsest to finest count for different applications. Pitch is calculated by Laser technology. All three movements are controlled by 3 different servo drives. Programmable leasing device, kick back type feeler roller, hydraulic air cooled disc break, user friendly software and advance safety features

make this machine world class



Pacesetter Sizing machine

Sizing machine for spun yarn is equipped with advance servo controls. Innovative vertical split size box for superior performance. Extremely robust beaming structure with efficient breaking system. Entire sizing operation, parameter setting, monitoring and controls are processed through advanced electronics by touch screen with colour graphics to adjust/control all different parameters.





Hall No.2
Booth No. C222

RZD PROTECTED rings With more than 25.000.000 units sold - the proof of their strong reliability all over the world - RZD PROTECTED Rings are the black colour spinning rings famous for their **excellent quality/price ratio** and their **availability for any brand spinning frames**.

RZD PROTECTED are provided with a **smooth, micro-porous and silky surface** able to catch the natural lubrication of the fiber spun; they have a wide field of application and give superlative performances with fine counts (ne 60 and finer) and core spun yarns.
STEELHAWK rings

This narrow width needle loom works on Piezo Technology (Patented Bi-Morph-Actuator). The advantages are no hooks and no solenoid hence no heat. Module itself is separated into 2 Parts. Actuator and gear for easy maintenance without effecting harness. It is provided with simple and user friendly touch screen controller STEEL CONICAL rings



Successfully produced by Prosino since 1946, steel conical rings represent the core of Prosino's tradition and competence; they are worldwide recognized and used for decades by the most prestigious OEM's like ZINSER, COGNETEX and GAUDINO. Made with carbon-high chrome 100Cr6 core hardened steel and provided with a mirror-polished surface, Prosino steel conical rings can perform for years under high alternate traveler loads.

Steel conical rings are provided with a peculiar "4+4" micro holes lubrication system, which allows the right amount of lubrication. Every 45° the traveler finds the perfect amount of oil - brought on the ring surface by 100% selected wool wicks - in order to run smoothly for years.

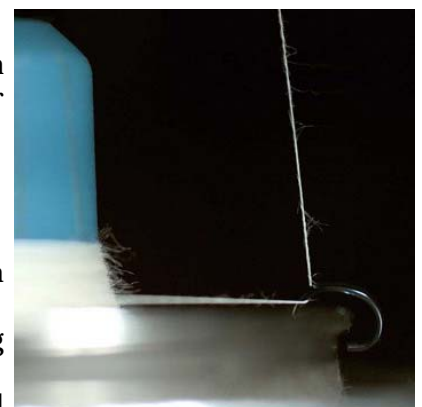
The long term Prosino's manufacturing competence, together with the co-operation with the best world spinning mills, has allowed the development of a special conical/concave running path with an extremely smooth surface, in order to allow the best ring/traveller contact

SINTERED METAL rings

Prosino's range of sintered metal rings, with over than 5 million pieced sold worldwide, includes different material solutions in order to suit to the most difficult working conditions.

Their most recognized technical properties are:

- High hardness, in order to assure a long ring life and a consistent traveller path condition;
- Surface smoothness and low roughness, for a correct running of the traveller and a consequently regular yarn tension
- Regular oil flow, thanks to the choice of the best raw material and the most modern manufacturing techniques.



Prosino's standard ring profile HZ_BS allows an excellent yarn clearance. The suggested oil feed design is the "SE": great profile strength, easy wick replacement and reduced maintenance costs.

Sintered metal rings have been developed thanks to Prosino's long term experience and to the valuable feedback from customers. According to a balanced blend of the metallic and non metallic powders and to a perfect sinterization process, they assure a regular oil flow from the oil reservoir through the ring up the traveller running path. The key factor to reach the higher performances is to keep the ring porosity open throughout its surface, in order to enable the best oil permeability.

Prosino sintered metal rings can be supplied in two different materials according to their application:

NYLON 4:

This is a ring with an elevate porosity, specially designed for nylon traveller applications. It is recommended for fiber glass application, carpet yarn, tire cord, polypropylene yard and sewing thread.

STEEL 1

This ring has been specifically designed for steel traveller application: it is very ductile and fatigue resistant thanks to the increased density and special alloy elements. Recommended for worsted, semi-worsted and blends.

Click here to read [Part I](#)