

Oerlikon Textile Components

## **ITMA ASIA 2008: Oerlikon Textile Components**

At this year's ITMA in Shanghai from July 27 to 31<sup>th</sup>, Oerlikon Textile Components presents the novelties of the product lines Accotex, Daytex, Enka Tecnica, Fibrevision, Heberlein, Temco and Texparts at hall W2/ booth B06. Reduced energy consumption, easy handling, a high degree of flexibility and highest quality in modification are the main features what all products have in common.

### **Fibrevision product line**

DTY Monitoring - **Unitens Plus** a completely new standard for DTY Monitoring is introduced to supersede the established market leading Unitens and WinOLT products.

Unitens Plus - introduces new measurement features as well as better integration into all types of machinery, at the same time as reducing costs. This advance is achieved by integrating an advanced new version of the well proven Unitens Tension sensor – Unitens 5; together with the Fibrevision FibreTQS Optical Sensor which also replaces the normal end break sensor, both saving cost and providing much improved functional integration across all types of DTY machines.

Unitens Plus further enhances the well established quality benefits of using Tension Monitoring in the DTY process with key new parameters monitored. In addition to Tension monitoring, Interlace and Denier Change (Ply detection) are monitored; additionally Package Length Measurement and Doff Timing are included as standard features.

Unitens Plus is available for fitting on all types of DTY machines, and whilst it can be fitted both on new machines and existing machines, significant cost savings are realized when fitting on new machines due to the replacement of standard end break sensors.

### **Heberlein® product line**

In the area of filament yarn spinning a wide range of migration and air interlacing jets is now available, coming in the new PolyJet™-2 design for minimum spacing between the threads and easiest operating. The successfully introduced PolyJet™-2 for interlacing textile yarns will be completed by the redesigned PolyJet™-SP-2 Migra and PolyJet™-TG-2 Migra for migration of the spin finish in textile resp. technical yarns, and the PolyJet™-TG-2 for interlacing of technical and BCF yarns.

The **PolyJet™-TG-2 TopAir™**, providing highest performance and uniformity in interlacing of technical yarns, will also be shown in the new PolyJet™-2 design. The PolyJet™-TG-2 TopAir™ has an additional upper air entry, thus providing an uniform distribution of the air flow at the same time as an improved compactness of the yarn bundle. The PolyJet™-TG-2 TopAir™ can contribute significantly to reduced air consumption.

Besides the well known SlideJet™-2, the Heberlein® **SwissJet™** sets new standards in air interlacing for DTY False Twist Texturing by its innovative solution for highest air interlacing performance and lowest operation cost. This jet has been especially designed to match the demand of the Chinese and Indian market. The SwissJet™ is shown with the jet inserts S1, S2 and S3 for extremely regular interlacing with maximum knot count up to 1200 m/min yarn speed. High as well as low stabilities are possible, depending on air pressure and overfeed. Highest evenness in interlacing even at low air pressure can be achieved which saves energy and protects the yarn, thus providing best preconditions for interlacing microfilament yarns. These outstanding results are achieved by means of the unique patent applied ATC (mini vortex chamber) technology. The International Patent Office has meanwhile confirmed novelty and inventivity by July 26<sup>th</sup>, 2007. Further the insert S12 provides with its standard vortex chamber highest interlacing stabilities at very regular interlacing matching the demand for warp yarns.

The redesigned **DetorqueJet** for achieving torque-free yarns in false-twist texturing comes with new jet plates made from wear-resistant ceramics.

In the range of string-up devices the new **Lufan™ HS-2** for high speed spinning processes offers stringing benefits in lower spare parts consumption and easier handling.

For knot-free joining of POY yarns especially for DTY, the new **AirSplicer™-POY** with superior, automatic performance and light weight is shown in operation for its first time.

The **WarperTex-O™** is a new optical yarn break sensor system for parallel warping. The modular design enables the efficient use of sensor rails from 8 to 64 positions for processing of currently up to 2.560 threads. Some of the advantages of the new system are quick and easy mounting and therefore perfectly suitable for retrofit solutions. The adjustable sensitivity level of yarn break sensors as well as automatic pattern plausibility check for ease of the operator has to be emphasized. The visual guide to the broken thread enables the reduction of down-times to a minimum. The modular approach of WarperTex-O also reduces service and maintenance effort for the system itself.

The product group **OptoTex** will be extended by a new optical yarn break sensor, (*prototype shown at booth*) for general purpose usage. The newly developed sensor, based on a modular design, allows flexible adaption to customer needs. The clear reduction of energy consumption (< 50% of current sensors) leads to significant cost savings. This latest development in the OptoTex range is characterized by a very good optical resolution, enabling the monitoring of thin yarns and monofilaments. The electronic parameter adjustment guarantees perfect machine integration, including an optional bus-system.

The improved product group **TensoTex** for OEMs and end-users will be presented. TensoTex stands for well proven tension measurement technology in processes like DTY, ATY and winding. The TensoTex sensors are designed to operate in a wide yarn tension range. Main features are high fidelity, fast and accurate analog output, linear characteristics as well as the excellent temperature stability.

#### **Temco product line**

New Temco single and double friction unit with open / close technology:  
Temco's friction units with the unique open / close design are well known in the DTY market. The new **open / close single unit FTS53** can easily replace the fix centre units Type 7 and 8. This provides highest performance at texturizing micro filament yarns. Now also a new double friction unit is available, which combines the needs of a very narrow pitch of a double density DTY machine with the open / close technology. Easy string up of the thread lines, one by one, is possible and ensures high string up efficiency with almost no yarn breaks due to low tension variations.

Temco offers the most suitable PU friction discs with a wide range of thickness and diameters to satisfy all commonly used friction units. Different shore hardness and shape can be selected to get the best results for the specific yarn range and processes of our customers. Temco introduced an optimized generation of PU material the so-called **Long Life disc**. A further development step offers now a lower machine CV more uniform T2 tensions on the machine and much more constant dyeing results.

The well known **Nickel Diamond disc** is redesigned by an up to date coating. Special formed inlets and modified materials led to an optimized new disc. Special advantages can be used by texturizing spun dyed yarn, full dull yarn, PA and PP.

**A new generation of yarn guide and knife discs** is available. The brand new technology of ceramic coating offers higher yarn tensile strength and elongation. Yarn and filament breaks are dramatically reduced. Especially at micro filaments this advantages can be used to improve yarn quality and reach most efficient production.

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Cooperation for a new migration / spin finish jet for BCF yarns:

In cooperation with ITV Denkendorf the new **PremiJet**<sup>®</sup> jet has been developed, which integrates the migration and spin finish jet in one housing. The new device, presented for its first time, guarantees very equal spin finish distribution on the yarn, without contamination of the machine frame and the environment.

New **separator roller** for the Nonwoven industry:

Lowest friction forces, high stiffness of the shaft and anti-adhesive surfaces are a few of the main advantages of this special separator roller. Deep knowledge in depth expertise in the area of bearing technology leads to a new roller for the nonwoven industry, which combines these parameters with the long life of Temco bearings.

*Oerlikon (SWX: OERL) is one of the world's most successful high-tech industrial groups, specializing in machinery and plant manufacture. The company is synonymous with leading industrial solutions and advanced technology in the fields of textile production, thin film coating, drive, precision and vacuum technology. Originally established in Switzerland and with a tradition stretching back 100 years, Oerlikon is now a global player employing more than 19,000 people at 170 locations in 35 countries. It occupies the number one or number two slot in its respective markets. In 2006, with a tripling of its share price and an increase in market capitalization to over CHF 8.5 bn, Oerlikon entered the STOXX 600 European share index and was the most successful European share of 2006.*

For further information please contact:

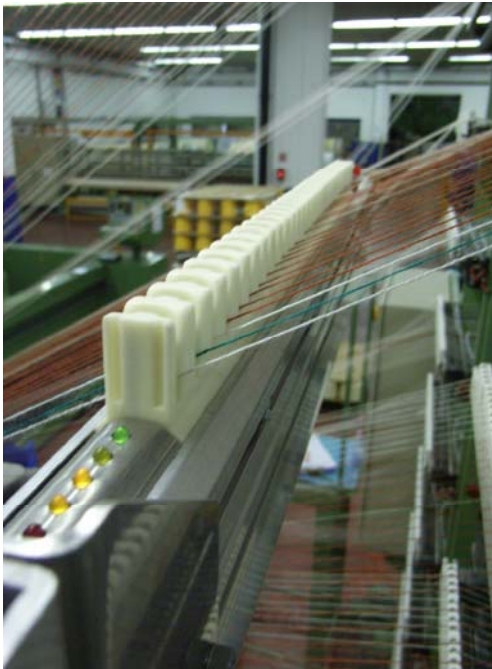
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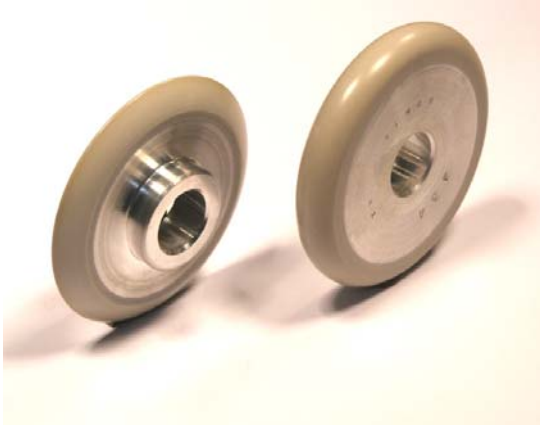
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Heberlein® product line - new PolyJet™-2 design for minimum spacing between the threads and easiest operating



Heberlein® product line - the WarperTex-O™ is a new optical yarn break sensor system for parallel warping.



Temco product line - in the field of DTY, a wide range of high quality PU friction discs LongLife type assures best performance and longest life time



Temco product line - separator roller for Nonwoven's industry offers lowest friction forces, highest shaft stiffness and lowest surface adhesivity