

## SETeMa introduces a newly developed modular washing line

SETeMa B.V. (Scientifically Engineered Textile Machines) based in the Netherlands was founded in 2002. Its main objective is design and manufacturing of textile machinery based on the scientific knowledge of the underlying processes.

SETeMa is focussing towards all textile finishing processes, around the printing process like dyestuff fixation, washing, padding/coating and drying.

SETeMa introduces its complete new Porta-Wash roll to roll washing line consisting of a series of four different washing modules. These modules can be combined to meet customer demands to wash various cloth- and fibre types.

The new Porta-Wash line consists of a base module PW-B, a large module with twice the cloth contents PW-L, a large module with a separation wall PW-LD and a J-Box module PW-J with a maximum content of 40 meter.

To achieve good water-, wash- and rub-fastnesses a minimum of unfixed dyestuff in the fibre is the main goal of the washing process. For these diffusion limited washing processes the time, temperature and concentration differences are essential factors rather than amount of fresh water and mechanical force.

The requirements of the diffusion wash process are the basis for the Porta-Wash line combining a long dwell time with minimal water content, a minimum of fresh water usage and a moderate mechanical impact.

In the Porta-Wash line the separate washing modules use recycled and fresh soft water. Spraying nozzles, which are

pressurized by circulation pumps, supply the mechanical energy to increase the washing effect.

The newly developed vacuum system in each module largely prevents polluted water being dragged by the cloth into the next bath. To further enhance the washing effect the cloth is sprayed with clean soft water prior to the vacuum slit. This maintains the for the washing process required concentration differences between the cloth and the water in each bath.

The vacuum system is ideal for the removal of polluted water containing the excess of dyestuff and thickeners from the cloth. Due to the nature of the vacuum system the evenness over the width is excellent. The vacuum is adjustable to accommodate for different fabrics and can achieve rest moisture content as low as 30% for synthetics and 60% for natural fibre.

To obtain a high energy efficiency each Porta-Wash module is equipped with a counter-flow heat exchanger for the cold incoming and hot outgoing water, an airflow circulation at the vacuum system and thermally isolated walls. Optional scroll rollers, tension control bars, two types of drying systems and several winding and unwinding systems can be combined to suit customer demands. The modularity of the system assures a high flexibility where customers can add modules afterwards.

A PLC enables the control of the washing speed, water temperature and the vacuum per cloth type in each module. Each washing module can be equipped with a fully automatic dispensing system for the required chemicals.

The Porta-Wash comes with an user friendly full-colour touch-screen interface. The first two Porta-Wash lines will be operational before the end of the year at two sites. The Porta-Wash is, as well as all other SETeMa products, available in 3 cloth widths: 1.85 m, 2.50 m and 3.40 m.

## Dornier delivers 50,000<sup>th</sup> Rapier Weaving Machine

Air-jet and rapier weaving machine manufacturer Lindauer Dornier GmbH recently delivered its 50,000<sup>th</sup> rapier weaving machine. The machine was produced at Dornier's main factory in Lindau, and reportedly was delivered to a leading global technical weaving company that will use it to manufacture woven reinforcement fabrics.

Dornier delivered its first rapier weaving machine in 1967. The company reports its machines, which are utilized in numerous technical woven-fabric fields, are able to gently process brittle, fine individual-count continuous filament yarns in a variety of patterns.

The machines features include low weft pick-up speed of the rapier; soft clamps and precise center transfer for safe weft insertion through the shed; the ability to process yarns without shed guide components; and digital warp control to minimize tension throughout the weaving process.

Over the years, Dornier has made continuous updates and improvements to the machines. One significant development is the Dornier DuoColor waste-saving device, which reduces selvage waste of weft yarns used in technical applications by up to 70 percent.

## Crealet commemorates its five year company jubilee

Exactly five years ago, the Swiss company Crealet Ltd. was founded in the scope of a management buy-out. A step which required a great deal of optimism and courage especially at that awkward economic period. But a creative team with a long professional know-how, a live team spirit and big personal engagement earned the reward for its daring. Since its start the company has established itself well on the market.

The name of CREALET meanwhile stands for successful development, distribution and service all around customer-specific system solutions in the field of electronic warp feed.

Within a very short space of time, CREALET has developed a complete product portfolio which includes a wide selection of special accessories and applications. Solutions ready for weaving are the distinctive mark as against competing ones.

Courtesy: CREALET AG.  
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SETeMa's Porta-Wash Line with Drum-Dryer.

### A.T.E introduces highly versatile 'TM3' knitting machine

A.T.E. Enterprises Private Limited (ATEEPL) is an ISO 9001 certified professional and dynamic organization with core competencies in industrial sales, distribution, and after-sales-services in the domains of Textile Engineering, Flow Technology, Print and Packaging Solutions and Clean Technology. ATEEPL serves its own group companies, group joint venture partners and many leading international companies. All put together, it works with over 50 Indian and international principals of world repute in India and neighboring countries such as Sri Lanka, Bangladesh, Nepal as well as other countries across the world.

A.T.E. has been an integral part of the Indian textile industry from the last seven decades and understands very well the changing market scenario and the demands of textile manufacturer. A.T.E. has always been associated with world leaders in the textile market to provide a complete solution from fibre to garmenting to the industry. In the field of knitting, Karl Mayer is the undoubted market leader since seven decades. The association of Karl Mayer with A.T.E. has been for more than four decade now.

Due to its commitment and thrust on quality and innovation, Karl Mayer today enjoys considerable trust of its customers all over the world. The newly designed three-bar tricot machine model "TM 3" is the result of their continuous R&D, and is a reflection of their commitment to product innovation. TM 3 offers best price performance ratio with better efficiency. It is highly versatile knitting machine, producing range of products for varied end-uses at economical cost. It also combines high operational safety with easy handling thus fulfilling every need of the Indian customers.

#### Features and benefits

- ❖ Best price-performance ratio for the 3 bar rigid warp knitting market segments.
- ❖ Easy handling guarantees high efficiency due to technology by Karl Mayer.
- ❖ Provides fabric quality similar to one produced from Karl Mayer machine model HKS 3M.
- ❖ Easy handling and simple technical features for producing equal number of loops/ min, one TM 3 is almost equal to two second hand or Chinese three bar warp knitting machines.
- ❖ Requires less space, power, workers and spare parts consumption as compared to second hand and Chinese machines, resulting into lesser recurring expenses.

### Invista: Klopman Vantage Fabric with Cordura® Technology

Invista - a global integrated fibers and polymers manufacturer has partnered with England-based polyester/cotton blended fabric manufacturer Klopman International to create Klopman Vantage workwear fabric featuring Cordura® brand technology.

Klopman Vantage twill fabric with Cordura developed to meet a demand in the European workwear market for increased comfort in a durable, abrasion-resistant fabric that can be used for a complete garment is made with an intimate blend comprising 50% Invista™ T420 Nylon 6,6 fiber and 50% combed cotton, and weighs 250 grams per square meter.

According to the companies, the fabric has been tested by independent laboratories and has met the highest color retention and performance standards, withstanding 250,000 Martindale rubs without failure. The fabric, which will be used to make trousers, coveralls and other apparel, will be available in khaki and black, with additional colors to be later added to the range. ♦



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