

Uster Technologies testers provide accurate data on yarn

USTER TECHNOLOGIES' TESTER 5 and Classimat 5 provide accurate and reliable data on yarn, and are considered among the best yarn testing apparatus. Evenness, imperfections (neps, thin and thick places), hairiness, defects and foreign fibres can be detected by the two devices. These laboratory testing equipment can detect the quality of yarn and even predict what the final fabric will look like. It is widely believed that evenness (CVm) testing could also provide accurate results for the same purpose, but Gabriela Peters, product manager for yarn testing at Uster Technologies has stated that CVm isn't enough to test other parameters that ascertain the quality of yarn.

Comprehensive testing at the Uster Technologies laboratory in Switzerland has shown that yarns with comparable CVm values can produce fabrics with obvious differences in appearance. In the tests, Ne24 cotton yarns from 10 different suppliers had insignificant differences in their CVm values, which could lead to the incorrect conclusion that the fabrics would look the same. Further test data from the Uster Tester 5 showed results for neps which were close in 8 of the 10 cases, in which the yarns had a nep value below the 25 Uster's User Statistics Percentile (USPTM). "The effort of knitting or weaving a fabric can be reduced to the minimum or eliminated if you have a yarn test report containing reliable information relating to fabric appearance. The Classimat 5 identifies the number of disturbing thick and thin places, helping to assess fabric defects."

The parameters collectively measured by Uster's Tester 5 and the Classimat 5 can help assess fabric appearance issues and downstream performance. A major breakthrough is the visual display of the 'yarn body' and outliers which could otherwise cause quality claims and rejections. Outliers for periodic faults, evenness, imperfections and hairiness are pinpointed, as well as the standard analysis of thick and thin places which is already essential in yarn trading. The device has a new powerful sensor with multi-coloured light source detection, which can differentiate coloured foreign fibres, vegetable matter and, for the first time, polypropylene content.

German technology increases energy efficiency

INCREASING PRICES, SPORADIC shortage of energy sources and strict environmental legislations have put Asian textiles producers under pressure to increase productivity. Member companies of the VDMA Textile Machinery Association demonstrated at ITMA ASIA + CITME 2014 that latest German technology increases profits by higher energy efficiency. VDMA experts examined the energy saving effects over the entire production chain of three textile products.

VDMA's approach of the analysis is to cover the complete value chains from the raw material to the finished product, like a functional T-shirt. To manufacture this type of product, the process starts with spinning and texturing of polyester yarn followed by the warp preparation. To produce the textile fabrics, warp-knitting technology is used like an automatic warp knitting machine. In the following process step of textile finishing, this material is washed, dyed black and finished (functionalised by applying special properties such as dirt repellent, waterproof and water vapour permeable layers), dried and finally completed by setting. For all these steps, from filament production to finishing not only the electrical energy consumed – including compressed air and air-conditioning – but also the thermal energies like gas, oil, or steam have been taken into account.



Saving energy in textile processes is an important step ahead for the industry

The all-new myGroBeckert app on iOS and Android

GROZ-BECKHERT, THE LEADER in provision of textile apparatus, relaunched its application myGrozBeckert at the ITMA Asia + CITME 2014 held in Shanghai in June. The app offers information about the textile value chain, industrial tools and appliances relevant to the textile industry. The maiden version of the app was launched at ITMA Barcelona in 2011. The new version has been upgraded with the latest design and is also more user-friendly. Among the most relevant changes include the textile motives, already known from the Groz-Beckert website. Moreover, the app is more conducive to customer benefits. Not only does the newer version provide user-friendly navigation structure, but

also simplified intuitive user guidance. The use of pictograms eases the operation and orientation significantly, so that the user reaches quickly the desired information and tools faster. In addition, each user can set the app individually according to his interests. Furthermore myGrozBeckert has been extended with new functions and content. For instance, there is a full text indexed search in all areas of the app. In addition, there is a new information portal on the app as well, which summarises updates and news from the textile industry. An overview of the Groz-Beckert product portfolio and the current trade fair appearances have also been added. MyGrozBeckert is available in German, English and Chinese. The improved version is available on smartphones and tablets with the operating systems iOS and Android.



Frosted Matt's colourful palette

GERMANY'S EMBROIDERY THREAD manufacturer Madeira Garnfabrik has launched a new range of colours called Frosted Matt.

The Frosted Matt series is commonly used for logos, embroidered text, design, sports, fashion, clothes and textiles. While combined with threads like classic shiny viscose, polyneon polyester and various other metallic threads from the supertwist range, the Matt series creates striking highlights in embroidery. Frosted Matt 40 is the enlarged selection, with 189 colours, including neon shades as well. These threads are particularly attractive when used for decorative stitching. Highlight enhancement is a key feature of this thread and its structure creates extremely sharp contours. Because it is polyester, Frosted Matt's chlorine resistance naturally lends itself to many fields of application.