More economic efficiency and more environmental protection
KARL MAYER's technical innovations for tricot machines and the warp preparation sector are setting new trends

With its machine show at ITMA ASIA + CITME 2018, KARL MAYER is emphasising its commitment to the main issues of the day. It is also premiering machines and presenting some exceptional innovations.

Premiere of the HKS with a width of 280" and the TM with the KAMCOS® 2 facility



For the first time, the widest high-speed tricot machine in the world, the HKS 3-M, 280", will be demonstrated to the public in operation at the exhibition. This new machine delivers maximum flexibility for the usual product repertoire. Unlike previously, articles of different widths and also more fabric webs can be produced simultaneously on just one machine. The unique performance of this machine will be demonstrated as it produces a velour fabric in a gauge of E 32. The features of the extra-wide HKS machine include the LEO® system, camera monitoring and the KAMCOS® 2 system.
KAMCOS® 2 is now being used on the TM range of machines. A TM 3, 186" will be shown at ITMA ASIA + CITME, equipped with the next generation of the KARL MAYER Command System. It retains the tried-and-tested features of the HKS version, which include an operator interface with functions based on smartphone technology and an integrated Lasersstop system for rapid yarn breakage detection, as well as data access via mobile devices using the KARL MAYER CONNECT app. In Shanghai, this efficient, flexible production machine

will be producing a tough fabric in a gauge of E 32 with ecological benefits. This textile can be used as a substitute for fabrics produced by water-jet weaving, with its high effluent loads.

A new direct warping machine for modern production and a size box, which is following a new path



The issues of sustainability and economics have led to the development of new technical solutions for warp preparation.
For the sizing sector, KARL MAYER will be showing the innovative VSB Size Box at the fair. Instead of the usual immersion and bath application process, the Prosize® operates with three, highly turbulent, homogeneous application zones, spray bar technology and a subsequent application/squeeze roller system. This reduces the volume of the size bath and sizing additives, thus decreasing the environmental impact. The size film is also extremely uniform and less fibre dust is produced. All this enables weaving efficiency to be maximised. Other advantages of the new wetting process include a 20% larger yarn coating zone and a much reduced dwell time, even after long machine stoppages.
KARL MAYER will also be showcasing the ISODIRECT direct warping machine - a world first with a unique cost:benefit ratio. This all-round machine can process every type of staple-fibre yarn and produces high-quality beams at warping speeds of up to 1,000 m/min^{-1}. Thanks to a smart press roller system and automatic yarn uncrossing, these are perfectly cylindrical and have identical warped lengths. A computer-controlled measuring system prevents any deviation above 0.15%. The ISODIRECT also handles the yarn and package gently, thanks to the kickback system, which swivels the press roller out immediately if there is a stoppage. Other advantages include its low maintenance costs and optimum operating ergonomics.