Universal Tension Feeding Control in Multi-Position Textile Processes

The BTSR Feeding System for Circular Knitting and Weaving Preparation Processes
All BTSR products are PATENTED and utilize exclusive and original advantages by their use of high technology.

A DEDICATED SOLUTION FOR CIRCULAR KNITTING/WEAVING PREPARATION PROCESSES

MULTIFEEDER represents the new generation BTSR solution able to satisfy the most demanding needs in multi-position textile processes, specifically large diameter circular knitting machines and weaving preparation processes. A high quality / price ratio device, thus fully meeting this market sector demand for a limited investment tied to measurable benefits.

The BTSR ‘Full Digital’ technology is able to realize a double control on both yarn tension feeding and yarn feeding speed, thus ensuring top performances in terms of system acceleration / deceleration dynamics, very high yarn feeding resolution measurement (0,1 mm) and drastic reduction of energy consumption.

TOP Flexibility, thanks to MULTIFEEDER capability to work with all types of yarns: elastomers (thin bare, covered, interlaced (11,17 Dtex), rigid yarns (nylon, cotton, wool, polyester,...) and technical yarns (polyester, polypropylene,...).

The Universal System ‘UNICO & MULTIFEEDER’

UNICO (‘UNIversal tension Control’) represents the BTSR new-concept device, combinable with MULTIFEEDER, able to overcome the state-of-art technology and all limits of storage feeding and positive feeding devices, thus representing a revolutionary universal solution for hosiery and knitting sectors operators.

Thanks to its fully integrated electronic system, UNICO allows to dynamically compensate sudden and high yarn absorption variations, by instantaneously featuring both ‘Positive Yarn Constant Tension’ Control and ‘Yarn Storage & Release’ capabilities (BTSR® Patent).

Technical Features:
• Programmable tension 0,2 gr. ÷ 100 gr.
• Feeding speed till 1500 mt/min (@ 24V/36V).
• New ‘APPLICATIONS’ function: directly visualize and select the application of interest (circular knitting, warping,...), avoiding any manual parameter setting operation by the user.

Through SMART MATRIX Feeder Terminal:
• LFA function: exact yarn consumption measuring (Length Yarn Absorption) with resolution of 0,1 mt.
• LFA Self-Learning function (in combination with SMART MATRIX Terminal): yarn consumption self-learning, control and automatic compensation; automatic machine stop in case of LFA error bigger than the programmed tolerance (BTSR® Patent).
• TARGET function: possibility to set a production target in meters with the relative automatic machine stop.