

# MULTIFEEDER & UNICO

## Universal Tension Feeding Control in Multi-Position Textile Processes

The BTR Feeding System  
for Circular Knitting and  
Weaving Preparation  
Processes





Easy & Quick Installation  
MULTIFEEDER SYSTEM  
on a Circular Knitting Machine



Led Keys  
Ergonomic keys for easy operations and synchronized alarm signalling (green leds OK, red leds ALARM).



Separator  
Adjustable yarn coils separator which allows the utilization of every kind of yarn.  
Selfthreading ceramic eyelets for an easy yarn insertion.



UNICO Device  
Universal Yarn "Storage and Release" Device, combinable with MULTIFEEDER for specific knitting, working applications.



SMART MATRIX Terminal  
SMART MATRIX controller allows to memorize, load, visualize and control even in graphic way as yarn tension, speed and yarn consumption (LFA).

## 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/36 V).
- 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.