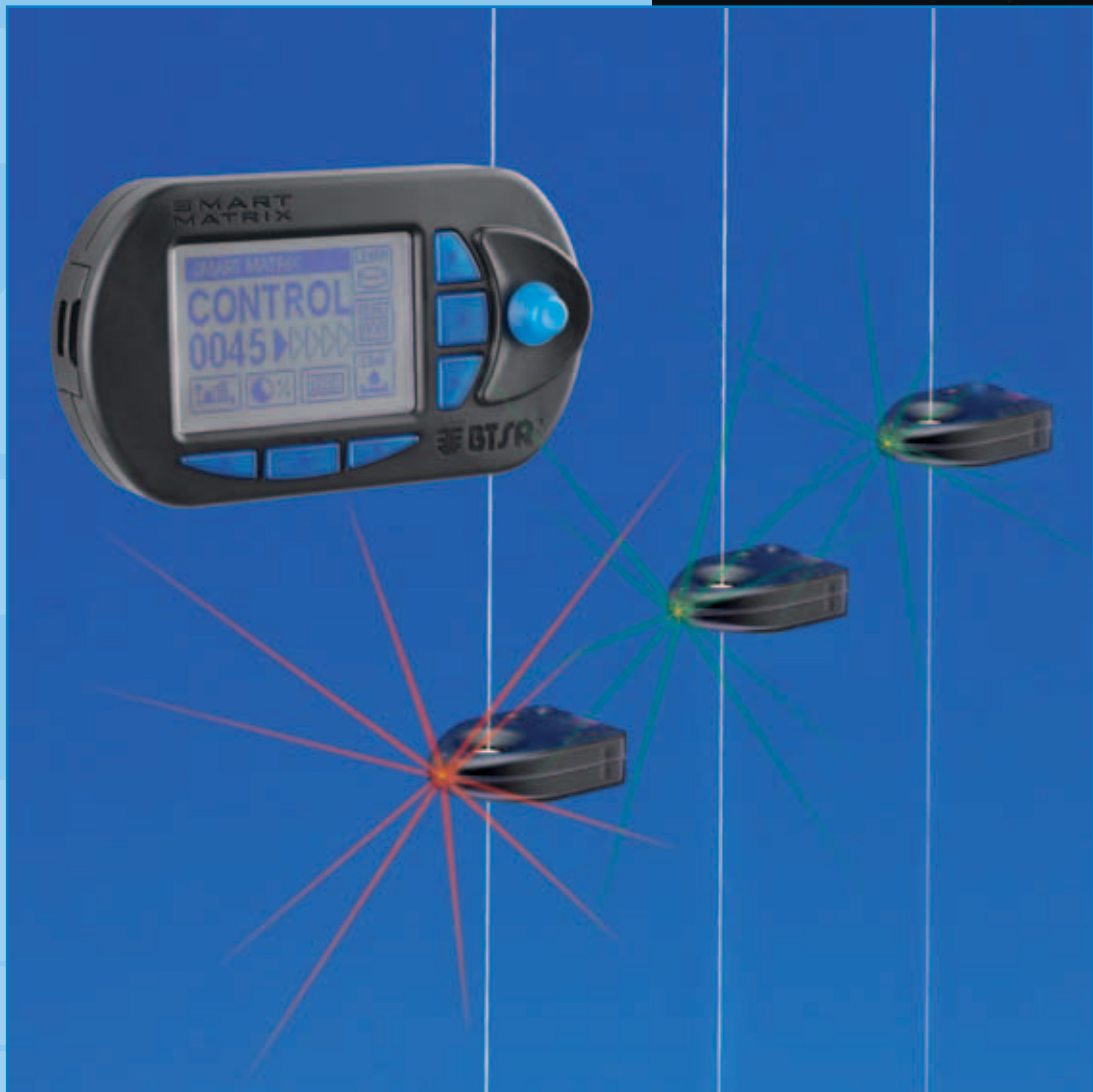


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# SMART MATRIX 64H & IS4F HTS

## Advanced Production Control System

Advanced production control  
and IS4F HTS 'closed eyelet'  
electronic technology for small  
medium circular knitting and  
seamless machines



UNI EN ISO 9001-2000

14001-96

# INNOVATION IN YARN MOTION CONTROL

## 'Touch Light' Function

The "touch light" function allows for the rapid and precise use of the optic key in the different procedures.



## Led Signal

Bright (red and green) LEDs are used for control condition and alarm signalling.



## Quick Sensor Fastening

Support clip for a quick sensor fastening to the machine, with three possible inclinations to make the sensor/yarn path alignment easier.



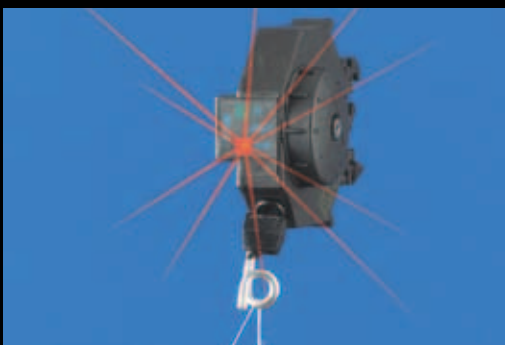
## Matrix onboard terminal

Matrix onboard terminal MATRIX 64H an advanced programming, controlling and data reporting terminal for real-time production management.



## Yarn Tear Compensation

AST device for full automatic and electronic yarn tears or extra-tensioning compensation.



SMART MATRIX 64H & IS4F HTS System represents the latest BTSR solution designed for an advanced production control for small and medium circular knitting machines for socks, pantyhose, seamless, medical socks, body, underwear production.

This system is composed of SMART MATRIX 64H Programming / Control Terminal combined to IS4F HTS yarn control sensors through a single multi-port interface cable.

IS4F HTS represents the latest BTSR innovation in electronic sensors design and development.

IS4F HTS features the BTSR closed eyelet bidimensional

technology solution (BTSR Patent) for a perfect yarn motion control, thus making unnecessary the input yarn guide accessory.

IS4F HTS sensor is able to detect, thanks to the sophisticated BTSR control technique, the image variation of a moving yarn by indicating with absolute certainty the actual movement or stop status of the yarn. IS4F HTS sensors are fully programmable for an easy adapting to the control of any kind of yarn applications, with important boundary programmable functions, like parameters of control, sensor sensitivity and delay time. An innovative light interference software filtering makes it immune from light influence.

The installation of this advanced technological solution is able to eliminate at least 80% of the waste and seconds quality that would normally occur during production, additionally it will drastically reduce needle breakage and machines stoppages, allowing a rapid pay-back time of the investment effected.

SMART MATRIX 64H Terminal features advanced data programming, controlling and reporting user-friendly functions. It is able to SELFLEARN the yarn sequence pick up of the knitting machine, indicating any type of error checked during the production control (broken or missing yarns, uncut or wrong sliding yarns, wrong threading or wrong picking up errors). Thanks to the use of BTSR sensor management system and the use of multiconnectors cable (Smart Scanning Sensors), SMART MATRIX 64H doesn't require complex wire assembly and long time installation.

## AST PULL EXTRATENSION DEVICE

AST is an optional patented electronic device, able to provide significant production advantages.

Without stopping the textile machine, it is able to compensate for most of the tears or extra-tensioning of the yarn, thus avoiding both manufacturing defects and unnecessary stops of the textile.