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UNIFEEDER 2

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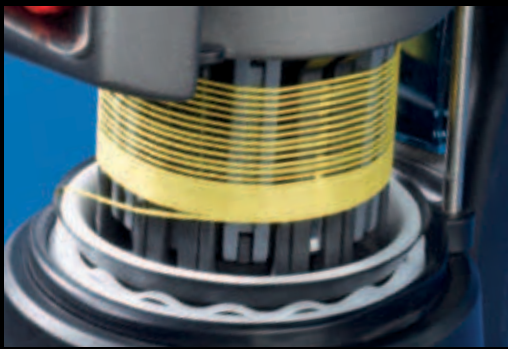
**High Tech Revolution
in Storage Feeding
Technology**

**A breakthrough Innovation
in socks, hosiery and knitting
applications**



UNI EN ISO 9001-2000

14001-96



Yarn Anti-twist System

New-concept revolving drum system avoiding yarn twist-effect.



LFA Measurement Optical Ring

Real-time and high precision yarn consumption measurement.



Integrated Tension Sensor

In combination with anti-gravitational magnetic floating ring (closed-loop) provides a real-time feeding tension control.



Knot Catcher and Built-in Sensors

Yarn knots, breaks and tears detection combined with real-time machine stop signaling.



Advanced Display

Wide graphic display allowing real time data monitoring (yarn LFA, yarn feeding tension, coils setting, quality histograms...).

WHEN INNOVATION ANTICIPATE MARKET NEEDS

UNIFEEDER 2 represents a breakthrough solution drastically overcoming the state-of-art of storage feeding technology, destined to supply an epochal change in textile market technological offer.

A new concept multi-patented system able to guarantee a total combined yarn feeding and storage control, thus representing the first 'Positive Storage Feeder' Concept introduced on the market.

TOP FEATURES AND BENEFITS

- Real-time Total Yarn Control - from input yarns (knots, breaks, tears), through yarn storage (constant storage), to output yarns (LFA and yarn constant tension feeding)
- High Precision Real-time Yarn Consumption Measurement (LFA) - granted by BTSR proprietary optical ring
- Prevent Yarn Twisting - thanks to new-concept revolving drum and optical ring technology closed-loop integrated system (yarn storage feed equal to yarn feeding speed)
- Real-time Constant Tension Self-adaptive Technology - bringing TOP Production Repeatability, based on the high-frequency magnetically controlled floating ring and output tension sensor closed-loop control system
- Yarns knots, breaks, tears detection - granting real-time machine stop signalling, thanks to input knot catcher and additional built-in sensors
- Yarn Graduation Compression Capability (0,1 gr. resolution) - for technical textile applications (i.e. sock leg, seamless...)
- Yarn and Needles Breakage Prevention - avoiding second-rate products and useless machine stops
- AUTO-LFA Function - Auto-compensate Yarn LFA variation (i.e. due to fluff accumulation in the yarn finger, ...), granting constant quality and preventing yarn misplicing & breakage, (optional, with MATRIX FEEDER terminal)

COST SAVING, UNIVERSALLY RETROFITTABLE

- Minimized size and weight - incredibly minimized size and weight, thus allowing the simplest and cost-saving installation configurations (i.e. single ring, ...)
- No additional input yarn motion sensor required
- Reduced electrical consumption
- Plug & play - for easy and quick installation
- User-friendly - easy yarn thread-up and easy yarn tension set-up
- Universal Retrofitting - on all machine typologies available on the market
- Styles Programming & Unlimited Graduation Compression for standardized production - coming with PC-LINK NEMO PROFILER software (optional)

TECHNICAL SPECIFICATIONS

- Programmable tension: 0,2 gr. ÷ 50 gr.
- Yarn Feeding speed: up to 1000 mt/min. (@ 24 V/36 V)
- Yarn Storage Coils programming: up to n. 30
- Weight: 780 gr.
- Size: Height 210 mm (265 mm), Width 77 mm, Depth 125 mm



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All BTSR products are PATENTED and utilize exclusive and original advantages by their use of high technology.