High Tech Revolution in Storage Feeding Technology

A breakthrough Innovation in socks, hosiery and knitting applications
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 misplating & 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.