HYGIENE ADVANCED UNWINDING
TECHNOLOGY LINE

MATRIX CUBE 44

BTSR®

building the future

MCC44 Creel

BTSR new double extraction mode modularity

Large rounded antiballon to prevent snags

Low Dtx pulleys (pitch 4 mm)

THE NEW FRONTIER OF LOW DTEX SOLUTION

MATRIX CUBE44 represents the the next-generation BTSR unwinding system, specifically designed for Low Dtex yarns, by setting a new benchmark in compactness and performance. Thanks to an optimized internal layout, MCC44 comes equipped with n. 2 diaperfeeder devices for each creel cube, by making a solution with top and unique space-efficiency.

MAIN FEATURES

- TRIO-LOOP Technology (BTSR PATENT):
  1. DIAPER FEEDER (Constant Tension) It manages the primary stage by controlling the elastic feeding tension based on set-point. It automatically compensates for the change from a full to an empty package (First Loop), ensuring the elastic is always delivered under control at constant tension at any speed.
  2. TMS SENSOR (Real-Time Monitoring) This device acts as the high-precision "eyes" of the system. It measures the elastic tension at the target insertion point into the process and the real-time consumption, sending this data instantly to the management unit.
  3. SM-DIN MULTILOOP (Smart Management unit) The "brain" of the process that synchronizes the entire system. SMDIN unit processes data from the TMS to:
     - Compensate for any friction occurring along the elastic path from the creel to the insertion point into the process (Second Loop).
     - Monitor and detect downstream (TMS) extra-frictions to guarantee perfectly constant elastic consumption (Third Loop).

  The Result: The achievement of the exact desired tension at the final machine insertion point of the process, ensuring superior product quality and consistency.
- Performance & Customization: Constant tension and speed management up to 1000 m/min. Available with ETH/PFN communication interfaces, Single/Three-Phase power, feet or wheels, and color-coded single pulleys or pre-assembled groups.
- Structure: BTSR Patent Pull-out Drawer system with doubled capacity (2 Diaperfeeder devices per cube, up to 12 per column) and Spool change sensor for detecting the yarn changes.
- Bobbin Size: Max 160 mm (diameter) x 120 mm (height).
- Footprint (Standard 4-unit column): 700 mm (W) – 2030 mm (H) – 600 mm (D).

Numbers of Cubes / Yarns: Up to 6 Cubes / 12 Yarns

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