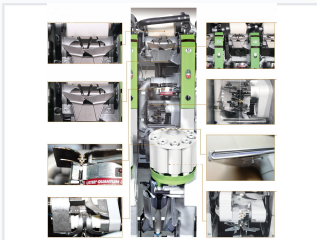


Automatic Yarn Winder

This automatic winder optimizes package building with even winding tension and high operational stability. It features an anti-patterning device, a tension control system, and a balloon control mechanism.



ADDITIONAL IMAGES



Overview



The VCRO automatic winder featuring a brand-new profile design for high-speed textile production.

High-Performance Automatic Yarn Winding

The VCRO automatic winder is a sophisticated textile machine designed for high-speed efficiency and precision package building. It features advanced smart anti-patterning devices, a new tension control system, and a balloon control mechanism to ensure uniform winding density. This machine is engineered to handle a diverse range of yarn types while maintaining high stability and reliability for professional textile production.

Performance Metrics

Efficiency Improvements

20 %

Max Winding Speed Increase

5 %

Production Efficiency Gain

2 %

Reliability Improvement

Key Features



Close-up of the winding heads equipped with precision tension control and anti-patterning mechanisms.

Enhanced Precision

- New type of anti-patterning mechanism
- Enclosed drum cover design
- Electronic anti-wrap drum
- Soft tension mechanism
- Optional drum types for different yarns

High-Speed Optimization

- Tension close-loop control system
- Optimized bobbin yarn suction nozzle
- Advanced package yarn suction program
- Improved spindle panel installation

Technical Design

Drive System

DC brushless motor coaxial drive winding drum

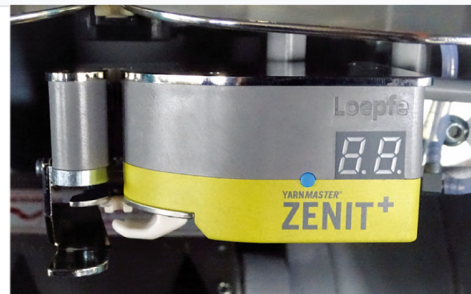
Energy Efficiency

Yes

Quality Control



Advanced sensor head for detecting and removing yarn defects during the winding process.



Digital yarn clearer system for precise monitoring of foreign fibers and yarn quality.

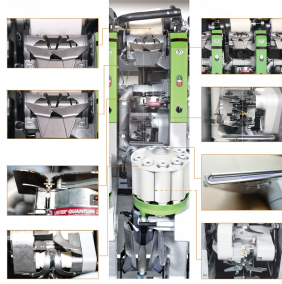
Quality Monitoring Features

- Whole process control of yarn quality
- Dual yarn clearer settings (Normal/Joint)
- Electronic anti-patterning with balance pressure regulating
- Real-time defect detection (slubs, thick places)

Electronic Yarn Clearing

USTER QUANTUM 3, LOEPFE ZENIT+, Foreign Fiber Detection, Smart Clearing Technology

Reliability



Optimized suction and splicing units ensure continuous operation and high efficiency.

Operational Reliability

- Optimized empty bobbin conveyor
- Transparent lints box window
- Optimized mobile fan structure
- Increased empty bobbin selection box

Compliance

Management Standards

ISO 9001 • Quality Management • Environmental Standards • Safety Compliance