

# 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

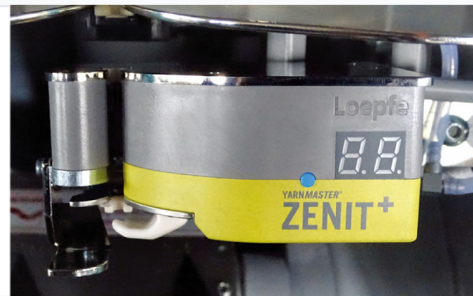
### Energy Efficiency

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.

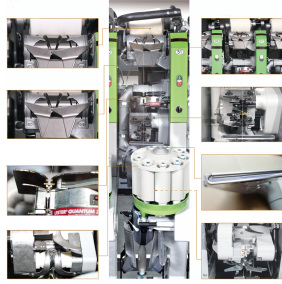
### Quality Monitoring Features

- 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