

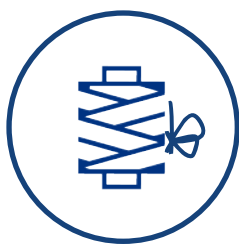
VANDEWIELE AUTOMATION

REINVENTING TEXTILE PRODUCTION BY COMBINING
ROBOTICS, AI VISION, AND 24/7 PROCESSES.



HERE, WE'RE REINVENTING TEXTILE PRODUCTION BY COMBINING ROBOTICS, AI VISION, AND 24/7 PROCESSES. WELCOME TO THE TEXTILE INDUSTRY OF TOMORROW. INCREASE YOUR PRODUCTIVITY. REDUCE YOUR COSTS. STANDARDIZE YOUR QUALITY.

AUTOMATION PLATFORM APPROACH



KNOTTING

Secures yarn around bobbin for safe bobbin handling



YARN STRIPPING

Clears, outside defective yarn coming from spinning



LABELLING

Insures tracability



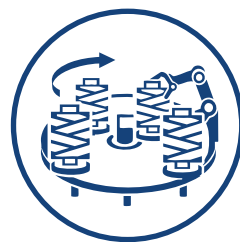
VISUAL INSPECTION

Quality control



PALETTIZING

Automate packing and handling station



AUTOMATIC CREELING

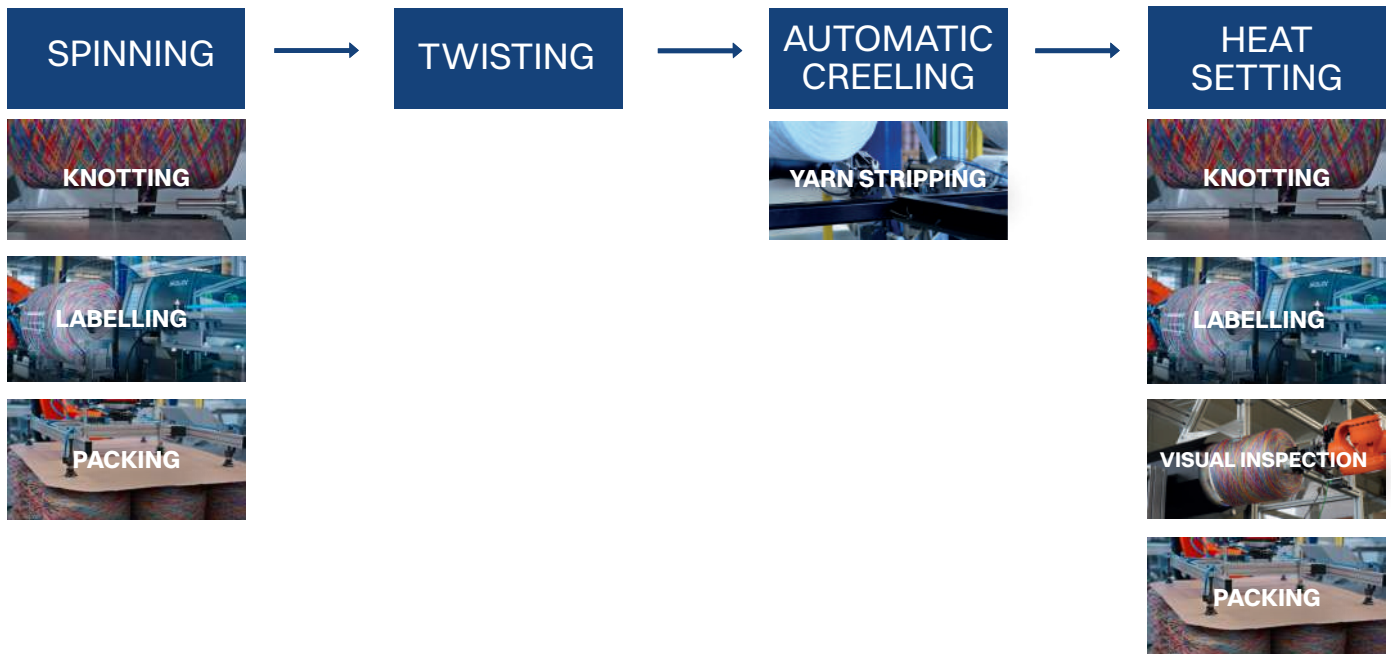
Automatic creel loading

KR1 - CORE AUTOMATION PLATFORM

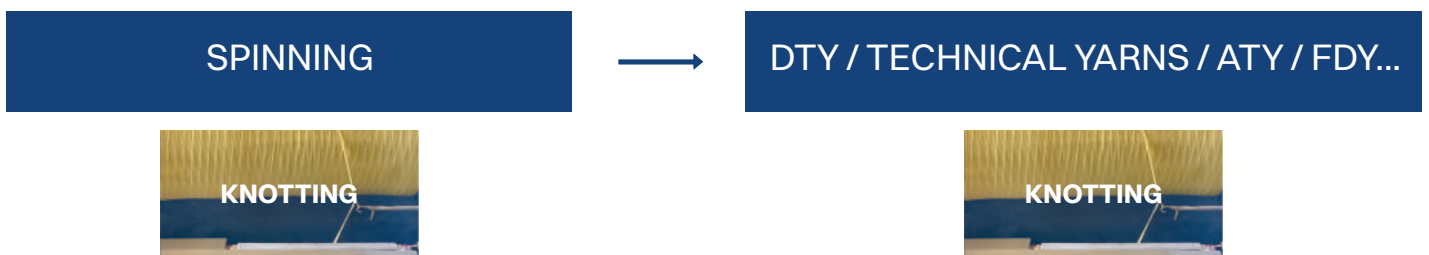
KR1 is an automatic robotic knotting system designed for bobbin handling and knotting operations. It delivers repeatable knot quality, high productivity and stable 24/7 operation.



KR1 VERSIONS - BCF / ARTIFICIAL TURF



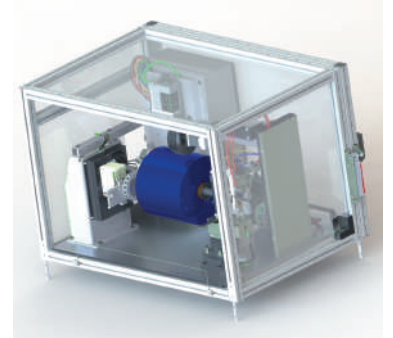
KR1 VERSIONS - POY / DTY / TECHNICAL YARNS



SCALABILITY SCENARIOS

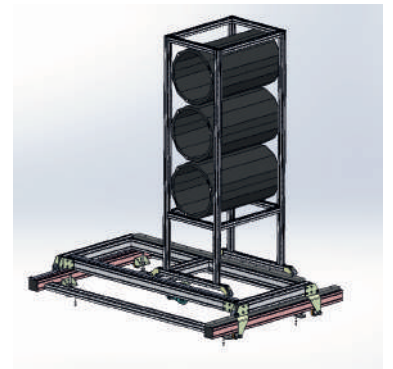
SCENARIO 1 - ENTRY LEVEL

Automatic knotting only. Ideal for first automation step with minimal investment.



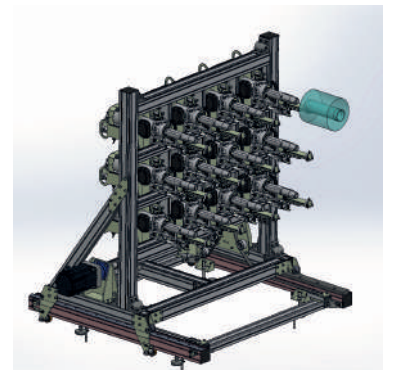
SCENARIO 2 - QUALITY UPGRADE

Adds visual inspection and quality validation steps.



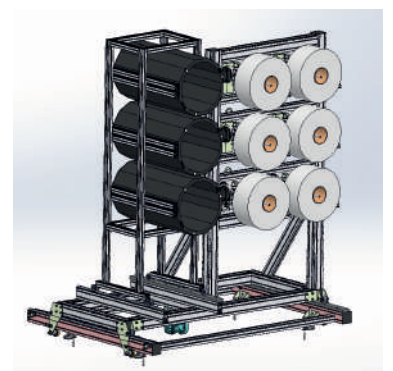
SCENARIO 3 - HIGH CAPACITY

Multi knotting units installed on axis or carousel configuration for higher throughput.



SCENARIO 4 - FULL AUTOMATION

Complete automation including knotting, multiple inspection steps and end-of-line logistics.



**ENGINEERING PHILOSOPHY: WE DESIGN THE RIGHT LEVEL OF AUTOMATION
FOR YOUR THROUGHPUT AND QUALITY TARGETS.**



TAILOR-MADE SOLUTIONS

An automation system only delivers real value when every element works in perfect harmony.

At Vandewiele Automation, our engineering teams design integrated solutions that match each customer's production flow, ensuring consistency, efficiency and scalable performance.

ALL OF SUPERBA'S INTEGRATED AND AUTOMATED SOLUTIONS GUARANTEE :

- High level of integration
- Product traceability
- Modular and flexible solutions
- Advanced features



VANDEWIELE
AUTOMATION

A background image showing an industrial automation environment with large white spools of material on a conveyor system, with various mechanical components and safety railings visible.

ENTRUST US WITH YOUR INDUSTRIAL AUTOMATION PROJECT OR SIMPLY DISCUSS YOUR CHALLENGES.

UNDERSTANDING YOUR PRODUCTION CHALLENGES

We analyse your process, production targets and constraints to define the right automation level.

CONCEPT ENGINEERING & LAYOUT DESIGN

We design an integrated automation solution tailored to your plant layout and process flow.

ROI SIMULATION & PROJECT VALIDATION

We simulate productivity gains, quality improvements and cost savings to support investment decisions.

PROJECT PLANNING & EXECUTION

Our teams manage the project schedule, coordination and technical integration from concept to delivery.

INSTALLATION & COMMISSIONING

We ensure smooth installation, system validation and production readiness.

OPERATOR TRAINING & RAMP-UP SUPPORT

We train your teams and support the transition to stable automated production.

MAINTENANCE, SERVICE & TECHNICAL SUPPORT

We provide ongoing service, diagnostics and rapid intervention to keep your system running at peak performance.

UPGRADES & AUTOMATION EXPANSION

Our modular solutions allow future upgrades, additional modules and production scaling.

WHAT'S NEXT FOR VANDEWIELE AUTOMATION

Automation is not a fixed solution. It's a platform designed to evolve with your production. At Vandewiele Automation, we continuously develop new technologies to extend system capabilities, improve quality control and prepare production lines for the future.

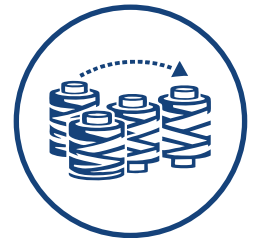
SMARTER QUALITY & PROCESS CONTROL THROUGH AI

We are expanding our visual inspection capabilities with advanced camera systems and AI-supported analysis. These developments aim to enhance defect detection, improve consistency and enable more automated quality decisions directly within the production flow.



EXTENDING AUTOMATION TO A WIDER YARN RANGE

Our goal is to support an increasingly broad yarn portfolio. We are continuously adapting our automation solutions to new yarn types, package formats and production environments, ensuring flexibility across different textile applications.



TOWARDS A FULLY CONNECTED AUTOMATION ENVIRONMENT

Future developments focus on strengthening system connectivity and data integration. This includes improved production monitoring, data exchange with factory systems and preparation for MES or digital plant environments.

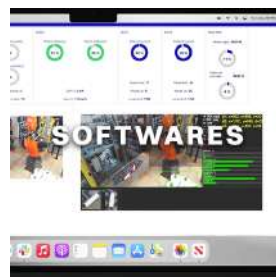
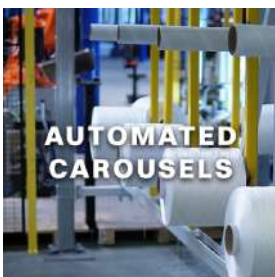


BUILT FOR EVOLUTION

Vandewiele Automation solutions are designed as modular platforms, allowing customers to start with the right automation level today and expand capabilities as production needs grow.



FUTURE INNOVATIONS TOGETHER



VANDEWIELE
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