

Package winding + Package rewinding
Autoconer X6

RIETER



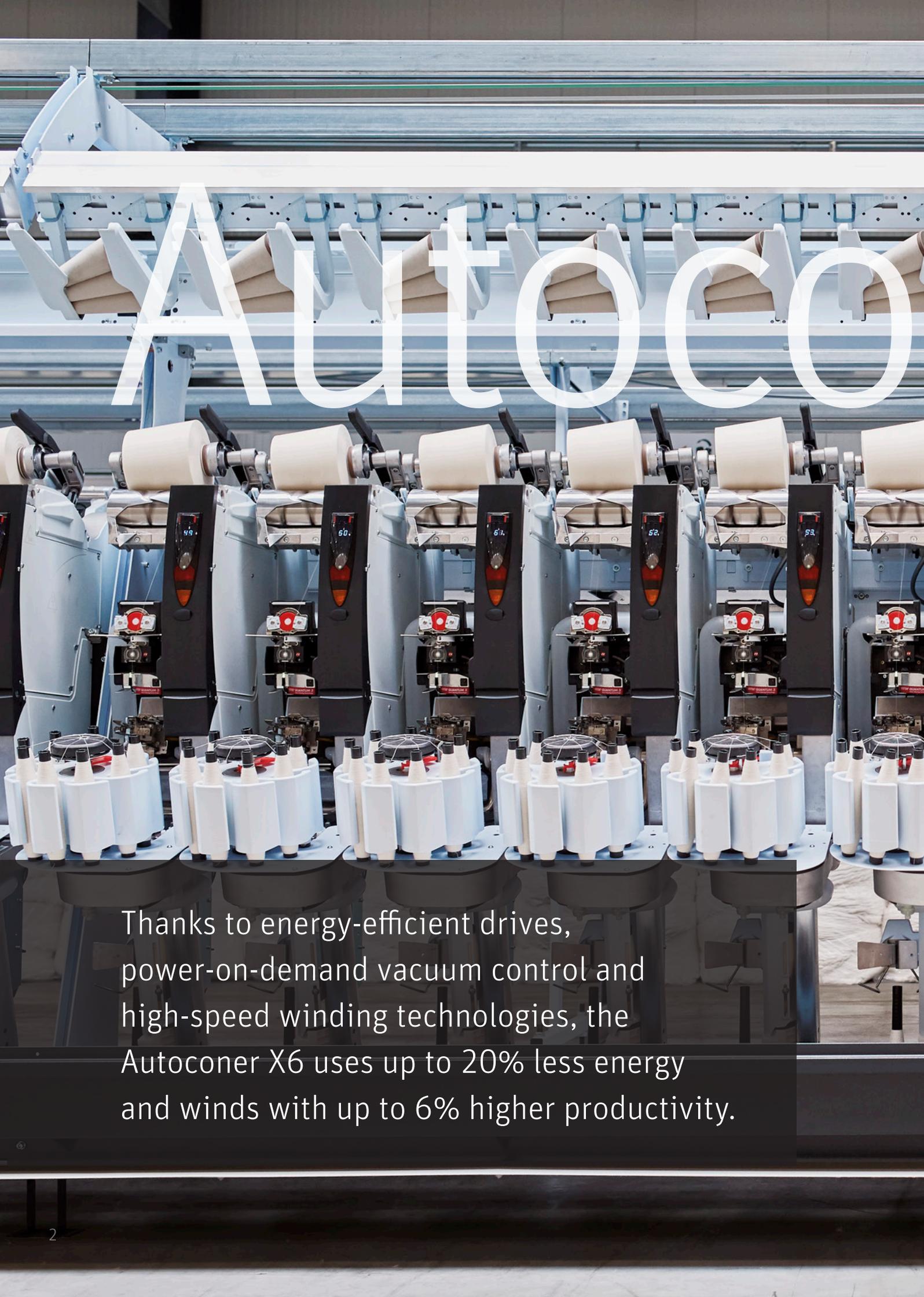
Autoconer X6

Manual feeding – type RM, E, K, RC



Easy operation and
high process flexibility

Autoconer



Thanks to energy-efficient drives, power-on-demand vacuum control and high-speed winding technologies, the Autoconer X6 uses up to 20% less energy and winds with up to 6% higher productivity.

merit X6



Highest Efficiency

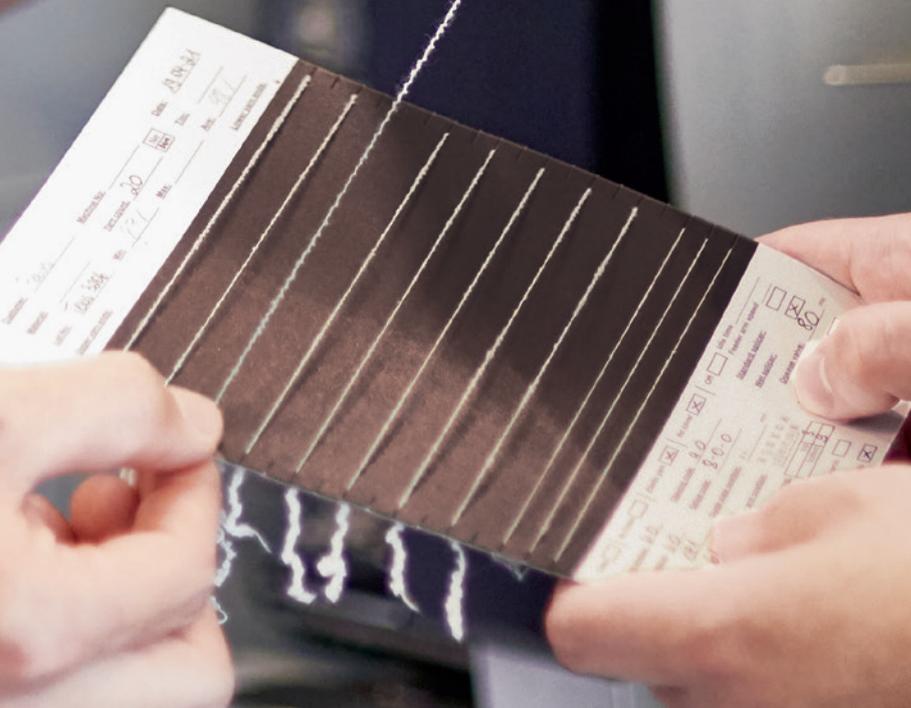


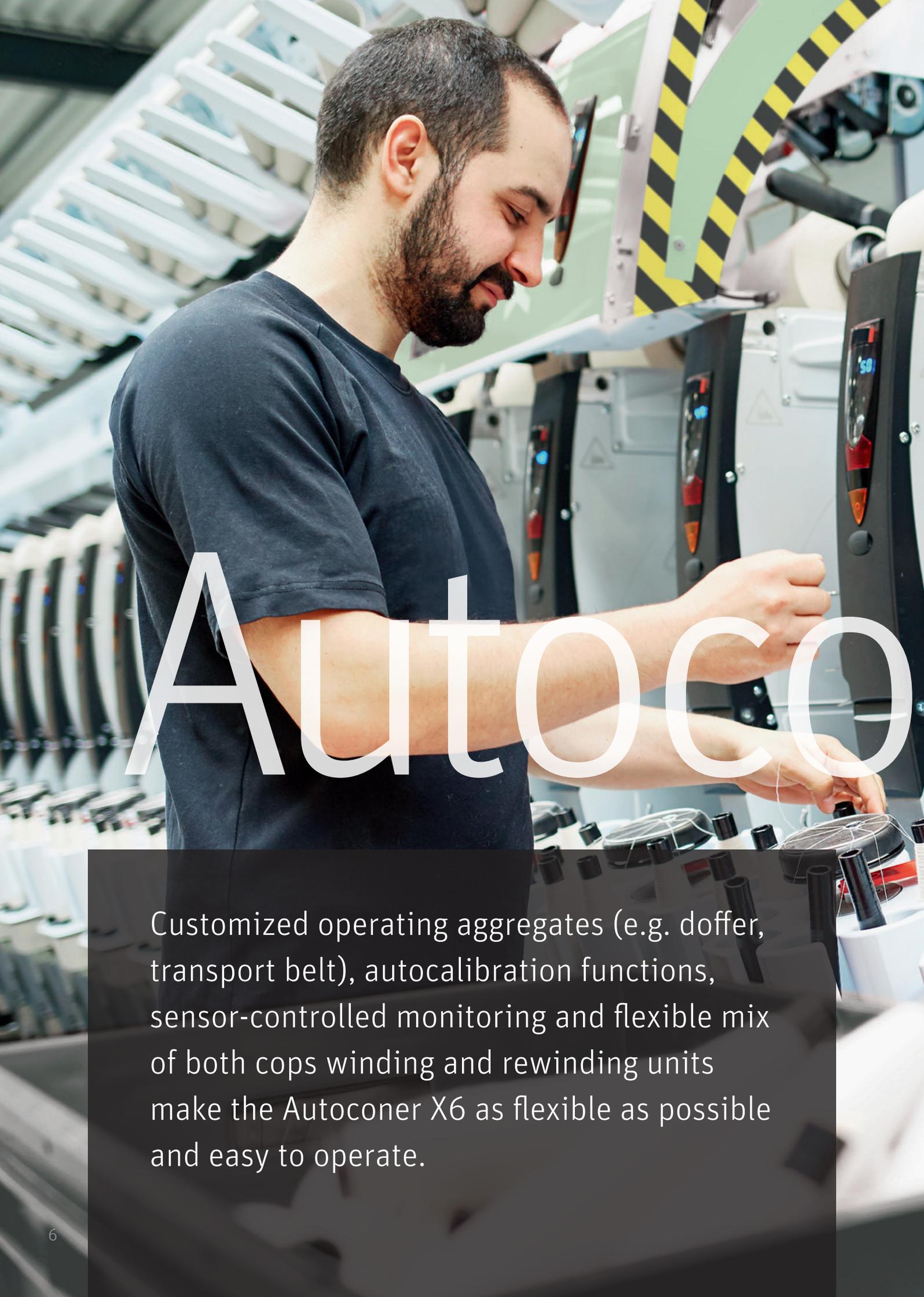
Autocon

Spliced joints that are indistinguishable from the parent yarn and process-optimized package formats are the hallmarks of the Autoconer X6. The innovative Smartsplicer systems deliver superior quality, regardless of the raw material.

Yarn-Like Splicing

ner X6



A man with a beard and short dark hair, wearing a dark blue t-shirt, is shown in profile, focused on operating a large industrial machine. The machine has a control panel with a digital display showing '58'. The background shows a factory environment with various mechanical components and a yellow and black striped safety barrier.

Autoconer

Customized operating aggregates (e.g. doffer, transport belt), autocalibration functions, sensor-controlled monitoring and flexible mix of both cops winding and rewinding units make the Autoconer X6 as flexible as possible and easy to operate.

A close-up photograph of a modern industrial robotic machine, likely a sewing or embroidery machine. The machine is primarily black and white, with several spools of white thread mounted on a rotating carousel in the foreground. The background shows the complex mechanical structure of the machine, including various joints, sensors, and a digital display showing the number '52'. The overall scene is brightly lit, highlighting the precision and automation of the equipment.

Flexible, Ergonomic Machine Operation

ner X6

OUTSTANDING

ADVANTAGES

Autoconer X6 (RM, Rewinding)

Quality Packages

Benchmark for commodity and high-end applications

Flexible, drumless winding technology Preci FX for both cop processing and rewinding



High Process Reliability

Autocalibration functions,
sensor-controlled functions

Integration into spinning mill
management system ESSENTIAL

Flexibility: Cops Winding and Package Rewinding

Type RM for cop winding

Type E, K, RC: different automation
levels in package rewinding

Combination of cop winding and
package rewinding

High Productivity

High-speed winding and short cycle sequences with Launch Control, Smartcycle, Smartjet, Eco-Drum-Drive

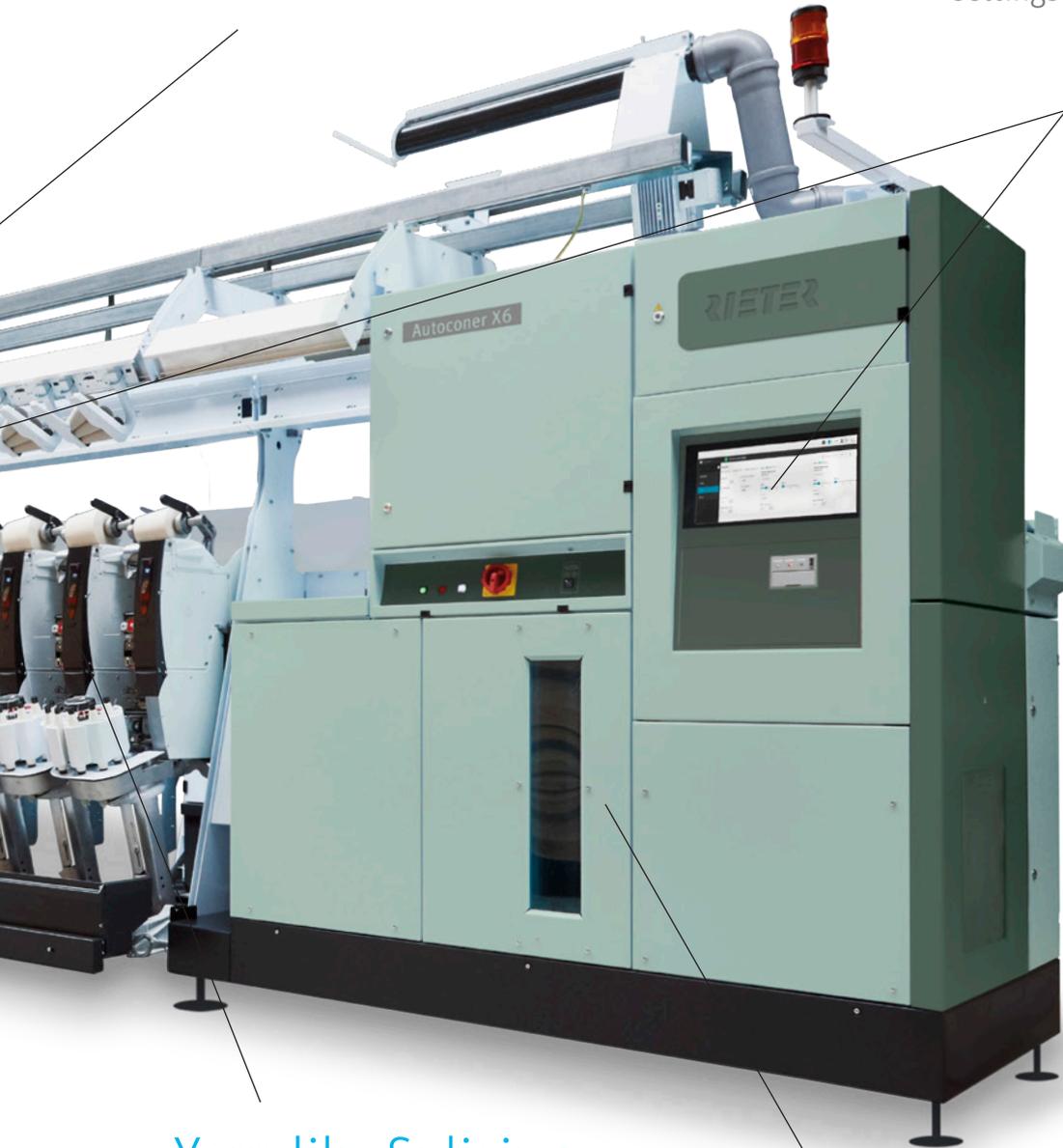
Unique 9+1 feeding principle, type RM

Up to 96 winding units

Easy Handling and Operation

Package doffer with intelligent functions

Operating unit for central settings and data analysis



Yarn-like Splicing

Smartsplicer family to splice all materials

Open prism technology for improved splice quality, easy handling, more universal use

Resource Saving Winding

Lower energy consumption with Power on demand vacuum control

Energy-efficient cleaning

Less yarn waste

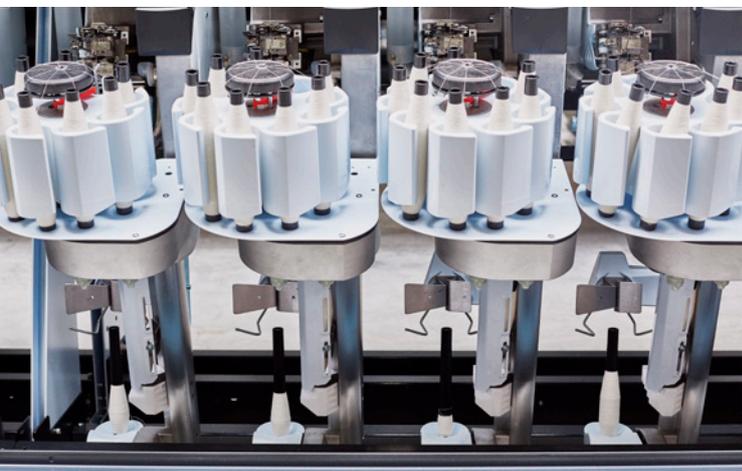
Ergonomic, Reliable, Productive

Easy to operate

For the type RM machines all manual jobs are carried out in an ergonomically favorable position. The cops are manually inserted into the round magazine. After winding the operator sorts empty tubes/residual cops at the integrated sorting table. Using the doffer and transport belt, the operator can pick-up the final packages on a central point at the end of the machine.

Productivity at a high level

The unique 9+1 feed principle ensures maximum productivity. Due to the additional reserve cop position, the cop changing cycle is faster than with other winding machines. The automatic correction of incorrectly placed cops relieves the operator and increases process reliability and thus productivity.



Customized, Flexible Process Design

Customized flexibility

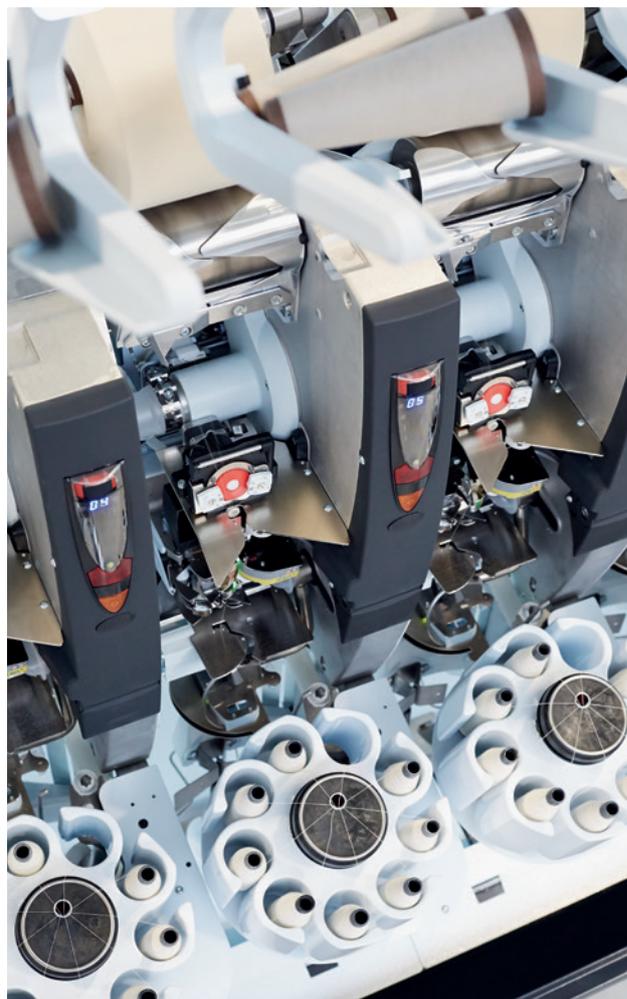
The type RM can process cops of all natural fibers, with a tube length of up to 360 mm. Parallel processing of different lots on one machine is easy to handle.

The flexible winding technology makes it possible to meet all requirements for process-optimized quality packages for dyeing, weaving, warping, knitting, twisting.

Cop processing and package rewinding on one machine

If customers want to rewind only smaller package lots or package residues, they can integrate sections of the re-winding machine types E, K and RC for package processing into the cop-processing machine type RM.

User-friendly central setting of different winding parameters facilitates handling of different applications.



Autoconer X6 Rewinding Machines

Equally high quality standard

In addition to cop processing, the Autoconer X6 product family also offers rewinding machines for all requirements. Autoconer X6 rewinding machines guarantee high quality due to their advanced technology when rewinding packages and residual packages.

The customer can choose from different automation levels for package feeding and can process different package formats and sizes. All technological features of cop processing are also available for package rewinding. Same principles of package doffing and parameter setting make handling very easy for the operator.

Type E easy individual creeling

- Manual package feed with single creeling
- Rewinding with yarn clearing and automatic yarn joining
- Drum or Preci FX displacement technology

Drum	■
Preci FX	■
Clearer	■
Splicer	■
Package doffer	■
Package feed	Manual, simple
Feed package diameter	300mm
Feed package traverse	3" – 10"

■ Standard ■ Option



Type K ergonomic comfort creeling

- Comfortable manual feed of reserve package in ergonomically optimal position
- Automatic change of feed packages with change mechanism
- Rewinding with yarn clearing and automatic yarn joining
- Drum or Preci FX displacement technology

Drum	■
Preci FX	■
Clearer	■
Splicer	■
Package doffer	■
Package feed	Manually, convenient
Feed package diameter	240 mm
Feed package traverse	3" – 6"

■ Standard ■ Option



Type RC large magazine for package remnants

- Manual feed of the residual packages into the large capacity magazine
- Magazine for 6 or 12 package residues
- Rewinding of residual packages
- Rewinding with yarn clearing and automatic yarn joining
- Drum or Preci FX displacement technology

Drum	■
Preci FX	■
Clearer	■
Splicer	■
Package doffer	■
Package feed	Circular magazine
Feed package diameter	115 mm (12-package magazine) 190 mm (6-package magazine)
Feed package traverse	3" – 6"

■ Standard ■ Option



First-Class Package Quality

Perfect package build-up

- Improved electronic anti-patterning of the latest generation
- Secure yarn guiding and yarn displacement with Eco-Drum-Drive System
- Launch Control (non-slip acceleration)
- Actively controlled yarn trap to safely avoid winding of loose, wound-in yarn residues
- Precisely measured yarn lengths

Process-oriented package format

- Manufacture of any package format
 - Cylindrical to tapered up to 5°57'
 - Traverse 3", 4", 5", 6"
- Large diameter of up to 326 mm

Uniform density

- Yarn tension control for uniform package density as interaction of Tension Control, unwinding accelerator and yarn tensioner
- Tension Control per section to adapt the density profile per defined lot
- Cradle compensation



Excellent yarn quality

- Gentle yarn guiding thanks to straight yarn path with little deflection and well-positioned yarn guiding elements
- Waxing unit for satisfactorily waxed yarns.

Reliable quality assurance

- Quality Cut power failure circuit (lifting of the package, no pattern zones or damage to surface of the package)
- Central setting of winding and splicing parameters for absolute uniformity and reproducibility
- Autocalibration e.g. of suction tube and splicer feeder arm
- Quality-assured monitoring of wound yarn length/diameter
- Drum lap detection, Quality Guard
- Sensor monitoring of yarn path and winding process

Efficient waxing unit

The waxing unit waxes S- and Z-yarns perfectly and gently without handling, always in the optimal range in combination with Autotense FX. The waxing unit is highly efficient: 30% less waste wax with secured waxing application thanks to wax roll monitoring by sensor.



Preci FX for Process-Optimized Package Design

Individual, flexible package design

With Preci FX, packages can be designed flexibly and individually. It increases efficiency in downstream processes and minimizes logistics and process costs. Preci FX allows to switch between three winding technologies: pattern-free random winding, precision or step-precision winding.

Easy to operate

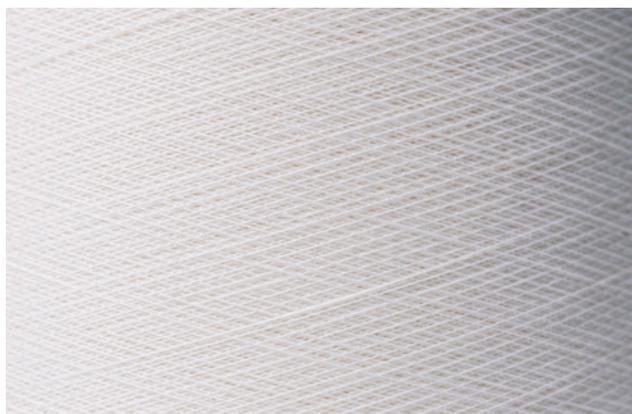
Define process-optimized package characteristics. Set the appropriate winding parameters at the operating unit in the minimum of time. Take advantage of proven sample recipes. Customer can switch flexibly between 3", 4", 5" or 6" format with minimum conversion effort.

Cost-effective downstream processing

The machine produces perfect, pattern-free packages for every process with maximum reproducibility and minimum set-up effort:

- Packages with a high packing density for warping, weaving, twisting, knitting
- Packages with low, uniform density and round flanks for the dyeing mills
- Special biconical packages or packages with a filling function for best unwinding behavior
- Stable packages with optimum shape when processing elastic materials

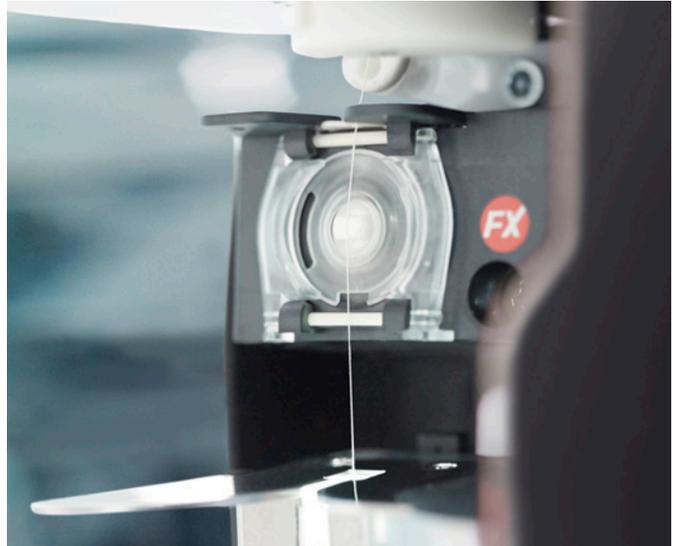
The ceramic-coated surface of the drive roller makes it possible to process a wide range of materials without high wear.



Premium Drum Winding

Autotense FX with Variotense FX

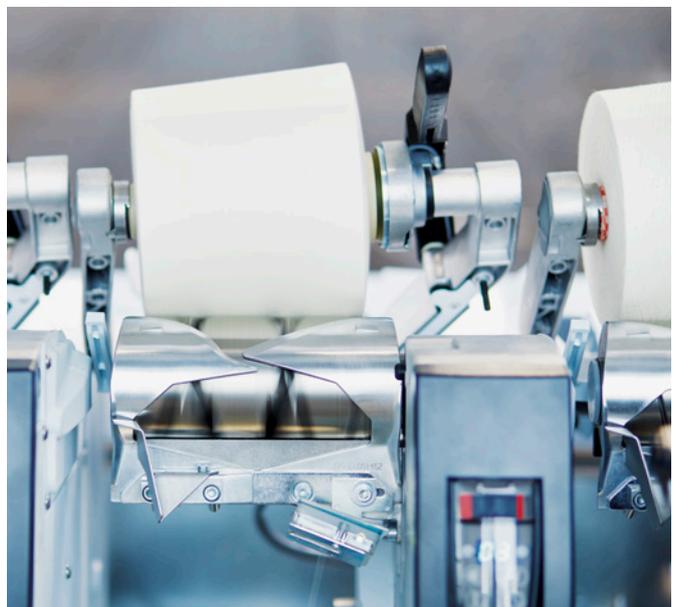
Autotense FX monitors continuously the yarn tension level and adjusts the yarn tension to exactly the required level: a sensor measures the yarn tension continuously at each winding unit, and the tensioner readjusts it in fractions of a second. Set the parameter for yarn tension in cN centrally at the HMI. The integrated Variotense FX function ensures almost straight package flanks when processing elastic yarns by targeted yarn tension adaptation.



Propack FX including Variopack FX

Propack FX is the electronic package-cradle anti-patterning system and avoids critical pattern zones before they develop. Variopack FX ensures straight flanks on packages with elastic yarn by targeted adaptation of yarn tension and cradle pressure. For packages with superb dyeing and unwinding characteristics.

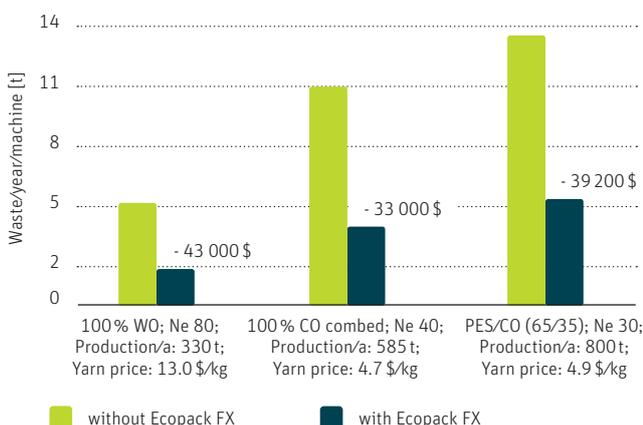
Additional benefits of Propack FX: central setting of cradle pressure and higher cradle contact pressure when starting up winding – for increased productivity and high reproducibility.



Lower waste with Ecopack FX

Ecopack FX produces quality packages with a length deviation of less than 1% thanks to the contactless optical precision length measurement. Due to the exact measured yarn length package by package customer profit by drastic reduced yarn waste in downstream processing, especially in warping process.

Ecopack FX: reduction of yarn waste



Balloon control with Speedster FX

Speedster FX influences the balloon formation during unwinding of the cops. With this sensor controlled cops unwinding high yarn processing speeds are possible without negative impact on yarn quality.

The effects of this technologically optimal balloon formation are depending on different parameters e.g. tube length, yarn count, material, set winding speed. Lower yarn stress during cops unwinding, reduction of sloughing-off yarn layers, excellent yarn quality and high productivity are the results.



Yarn-Like Splicing

Yarn-like splicing for all applications

With the Smartsplicer family the Autoconer X6 sets the benchmark for easiest handling and impressive quality in every application. The unique simplicity reduces the operator's workload and ensures top splicing quality:

- Appearance of the splice identical to the yarn
- Maximum strength
- Outstanding dyeing results
- Profitable downstream processing

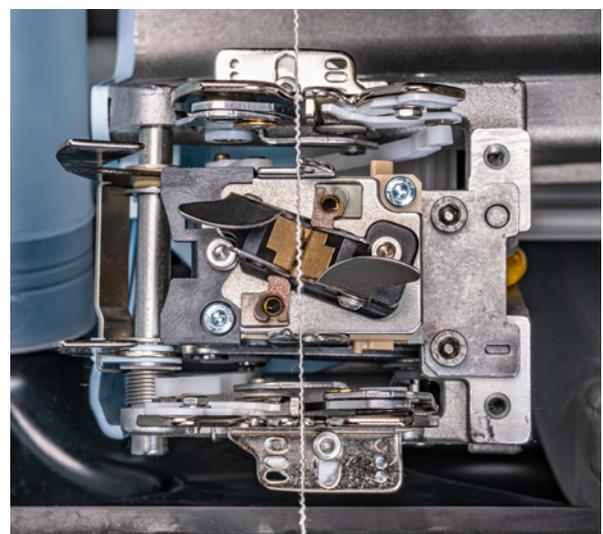
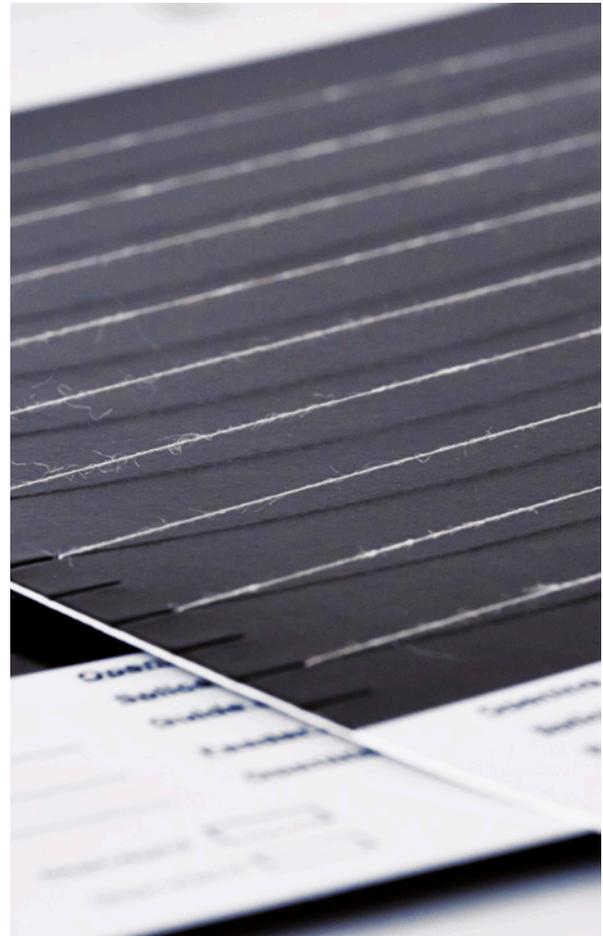
Ready for use, easy handling

With just a few clicks, the operator can set all splicing parameters centrally. The intelligent autocalibration of the splicer feeder arm ensures consistent splicing quality. Preconfigured, optimally adapted splicing components in the winding unit (Quick-Change Unit) minimize the setup effort. The splicer comes ready for use, and with ceramic shears as standard.

Stay up-to-date with new features, easy to retrofit

With the new open prism technology Rieter is making splicing even better and much easier. And another small part brings a big advantage. The new feeder arm centering leads to a higher reproducibility and stability for splice quality. It is easy to retrofit. Ask for technological support and decide for the right technology for your application.

All customers can update their system to currently available splice technology, as all innovations are compatible down to Autoconer 338.



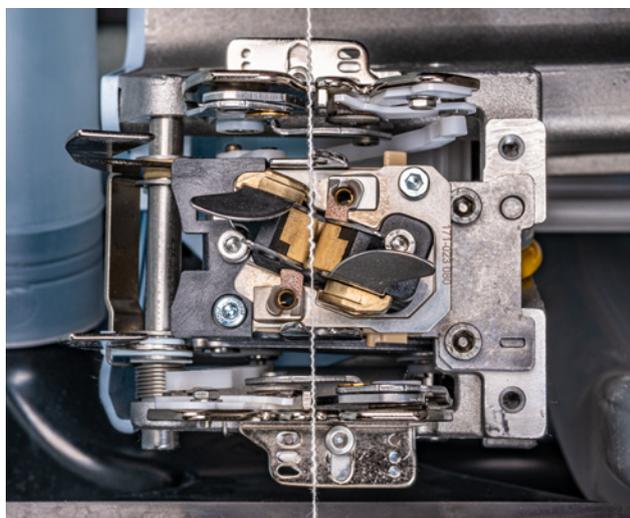
Open Prism Splice Technology

Designed for universal use, splicing on new level

With the open prism technology, spinning mills can cover the entire spectrum of cotton yarns and cotton blends (>30% CO), as well as elastic yarns in a wide variety of material combinations with CO, PES, CV and blends as single, duo or multi-core yarns. The prism OZ1 is recommended for Ne 30 to Ne 120 and finer, with the all-new OZ2 prism, customers can widen the application range up to Ne 4. In future the application range is being expanded to include S-twisted yarns with the new prism OS. Customers obtain greater and much more even average splice strength and better splice optic.

Denim yarn spectrum with one splice system

The production of modern denim fabrics requires both coarse single yarns and high-elastic core yarns. This is where the open prism technology is unique and unbeatable: all types of yarns can be processed with one splicing system. You can easily switch between elastic and standard yarn processing. The splicing parameters are almost the same.



Less handling and maintenance, greater process reliability

Operators will find the system easy to use: nearly the same settings for a wide yarn count range; less cleaning required due to open design and drastic reduction in amount of water used, or even dry splicing. The splice process itself is more stable, while the fault rate and number of splice cuts are reduced to a minimum, unparalleled in the market.

Special advantages in elastic yarn application

When splicing cotton-based elastic core yarns, duo-core yarns and multi-core yarns, the open prisms are used in combination with the Elastosplicer. Customers benefit from a number of advantages:

- Dry splicing of elastic yarns or with a significantly smaller amount of water
- Elasticity of the splice zone right through to the finished fabrics
- Dyeable splice joints for uniform dyeing process
- Embedded elastic filament ends

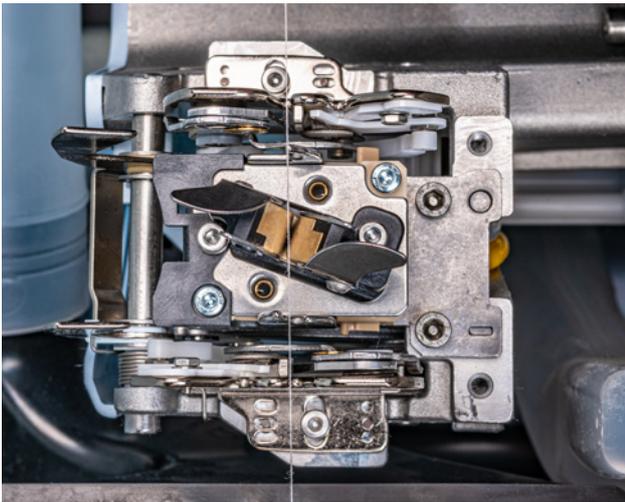


Smartsplicer Family

Smartsplicer (open/closed)

Easy handling and short, reliable splicing cycles make the pneumatic Smartsplicer a winner. It is suitable for:

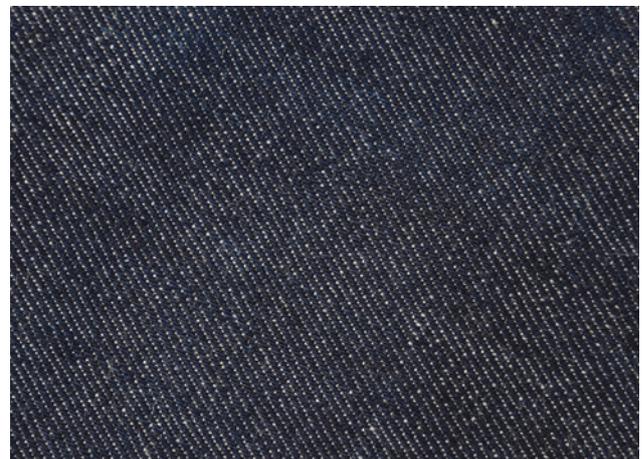
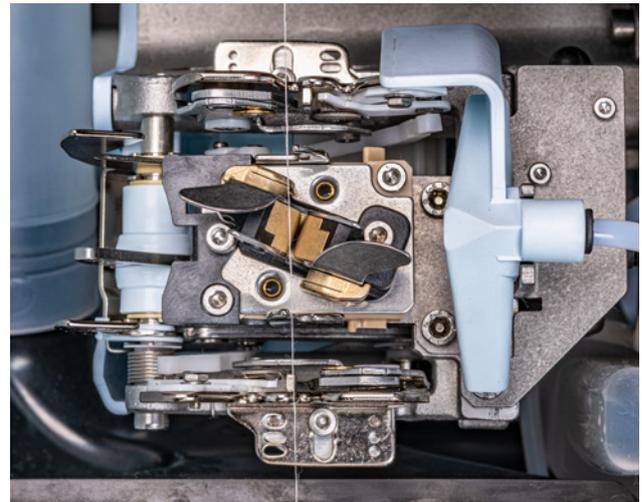
- Standard yarns cotton, blends
- Compact yarns cotton, blends
- Polyester, viscose, blends



Smartsplicer Injection (open/closed)

The splicing air is enriched with moisture by a metering valve. This is set simply and centrally at the operating unit. The result is higher strength and an improved appearance. In combination with open prisms the water amount can be drastically reduced or in many cases it's no longer needed. It is suitable for:

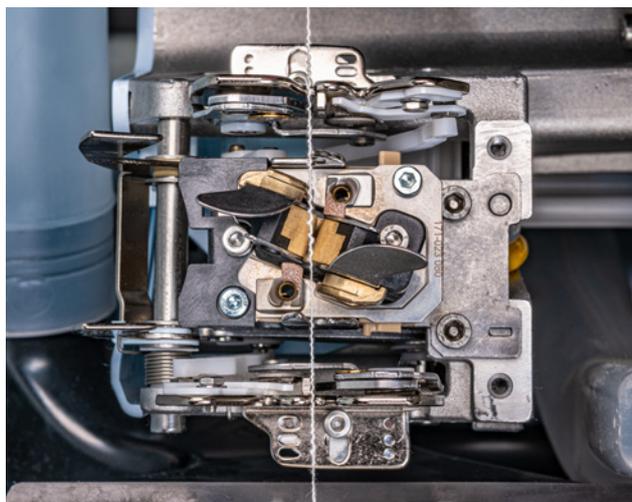
- Cotton yarns, compact yarns
- Denim yarns
- Linen yarns
- Rotor and air-jet yarns
- Plyed yarns



Smartsplicer Elasto (open/closed)

The splicer head includes braking elements for reliable processing the elastic material. The combination Elasto/Thermo or Elasto/Injection is also possible.

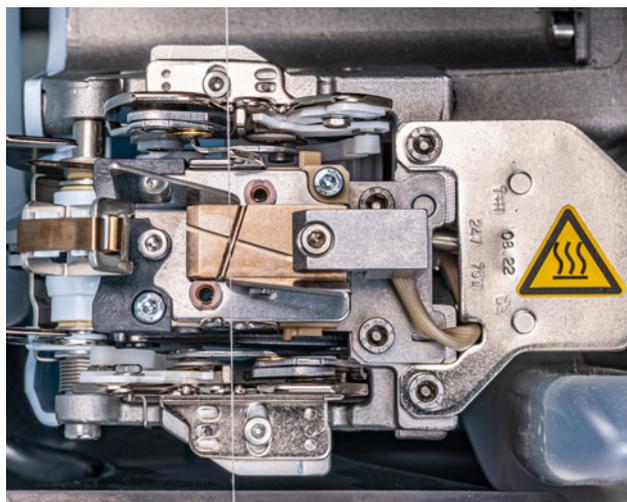
- Elastic core yarns
- Dual core yarns (Elasto/Injection)
- Multi-core yarns (Elasto/Injection)



Smartsplicer Thermo

For wool and wool blends the splicing air can be heated incrementally by selecting the temperature centrally at the operating unit. It is used for:

- Wool yarns, also with elastic content
- Wool blends, also with elastic content
- Synthetic yarns, also with elastic content



Winding Technology for Maximum Production Output

Productivity increased

The winding process of the Autoconer X6 is optimized for maximum performance. Short cycle times, maximum acceleration, short braking, efficient yarn search, reliable material supply, intelligent and precisely coordinated technologies increase the productivity.

Eco-Drum-Drive System

Reduced energy costs, formidable performance: the innovative Eco-Drum-Drive System with energy-efficient bearing technology makes it possible. Unproductive downtimes are cut nearly to zero. Spinning mills produce more per shift.

Yarn tension control for excellent cops unwinding

The combination of unwinding accelerator and effective yarn tensioning systems (Tension Control, Autotense FX) ensures uniform yarn unwinding over the entire cop.

Launch Control: faster to high speed

With Launch Control, the Autoconer X6 accelerates to maximum speed faster than before – automatically and without slippage. And the additional contact pressure generated by Propack FX (optional) will get the production off to an even quicker start.

High-speed anti-patterning

The anti-patterning cycle has been optimized to increase efficiency with simultaneous, gentle yarn handling. Customers benefit from enhanced productivity, even during this key phase in the winding process.



Shorter cycle, higher productivity

From clearer cut to package restart within shortest time: cycle sequences have been intelligently automated. With Smartcycle, the cycle process can be variably customized – for measurably higher productivity.

Long-term stable yarn pick-up by autocalibration

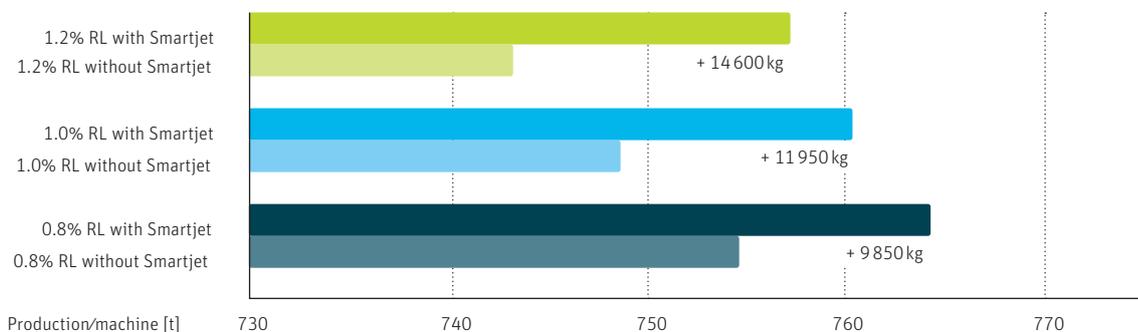
The position of the aerodynamically optimized suction nozzle gives a reliable function with long-term stability and reproducibility thanks to intelligent autocalibration – for maximum efficiency.

Intensified upper yarn search with Smartjet

Thanks to a variable cycle sequence, the suction nozzle intensifies the yarn search. If the yarn can not be detected, the doffer supports with the unique Smartjet. Reduction of manually operated red lights up to 80% is possible.

Higher productivity thanks to Smartjet

Example: CO, Ne 40, type RM (80 spindles), 8400 working hours



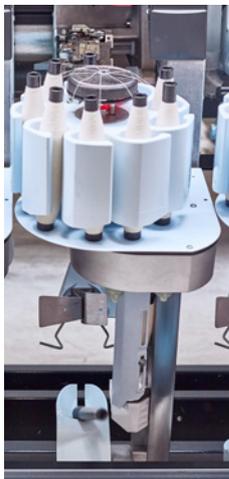
Efficiency with Up to 96 Winding Units

Easy cop feed, fastest cop change

The unique 9+1 cop feeding principle for Autoconer X6, type RM is the guarantee for fastest cops change cycles in the market. An additional cops is kept in reserve position in the loading shaft. The operator can feed the cops as usually into the circular magazine.

More kilograms per square meter

When planning spinning mills it is important to make maximum use of the space for the required production capacity. Simply to wind more kilograms on the same area. Long machines (up to 96 winding units) mean that the layout can be organized to yield the highest productivity.



Resource-Saving Winding: Energy Efficiency

Optimized aerodynamics

Circular cross-sections in suction channels, an innovative surface structure and other flow optimisations minimise air resistance. No valuable energy is wasted on the Autoconer X6.

Energy Monitoring

On the Energy Monitoring display it is possible to check the current energy and compressed air consumption per kilogram of yarn. The stored consumption data can be analyzed in order to make the production even more energy-efficient.

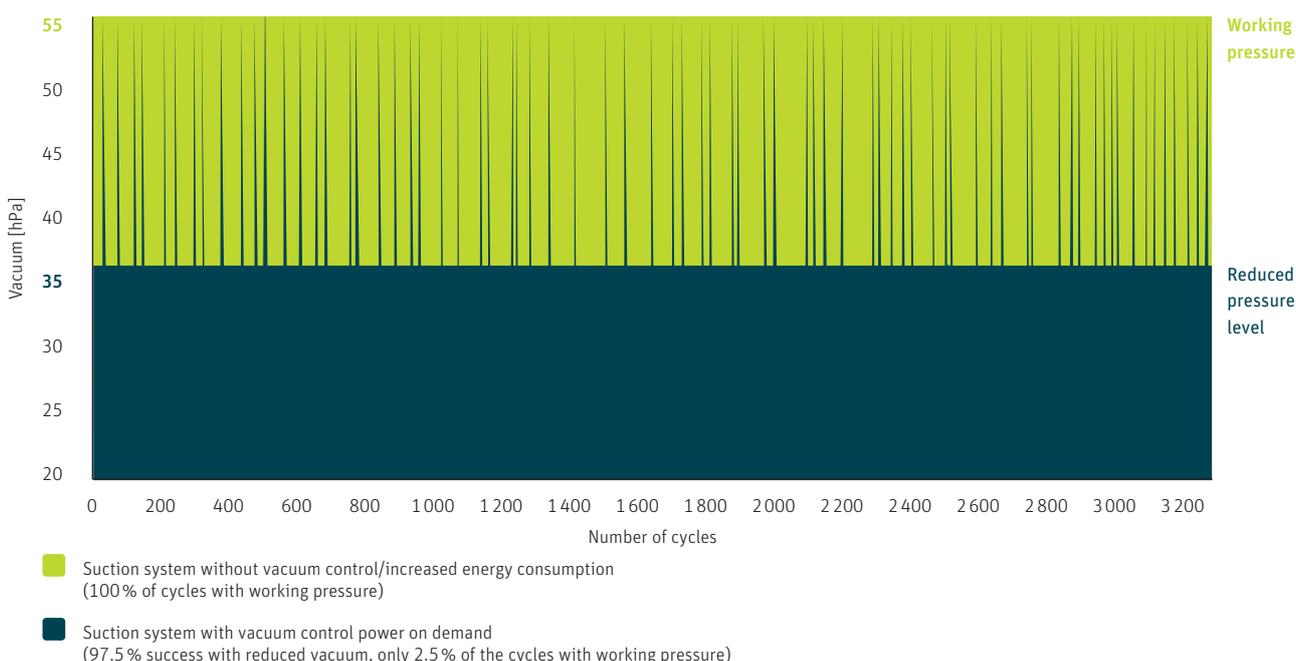
Powerful and economical drive technology

Whether Eco-Drum-Drive, suction system motor, frequency converter or belt drives – the Autoconer X6 drives convert energy into performance. High-quality and economical motors of the latest generation achieve higher efficiencies and energy savings.

Vacuum control Power on demand

Vacuum control enables winding with an absolutely low vacuum level. The suction system automatically regulates between energy-saving standby mode and higher vacuum for reliable yarn pick-up. Massive energy savings are the result.

Secure, smart and economical vacuum supply (Practice sample: type D, 70 winding units)



Less Yarn Waste

Reliable upper yarn pick-up

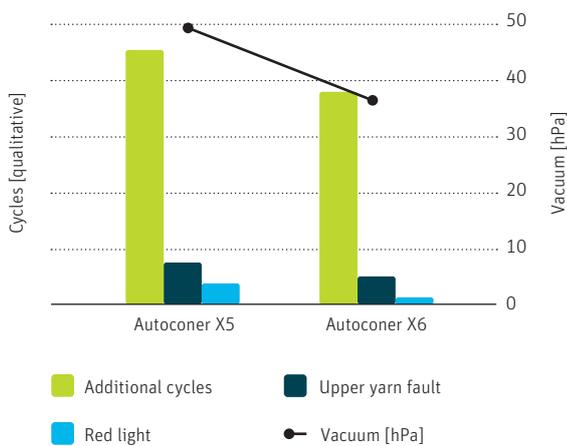
Only the Autoconer X6 offers complete solutions for the perfect interplay of upper yarn pick-up without damaging the yarn: the intelligent upper yarn sensor, the aerodynamically optimized suction nozzle with a special surface finish and Smartcycle with its intelligent cycling sequence. Smartjet in the doffer rounds off the automated, efficient upper yarn search.

Massive yarn savings

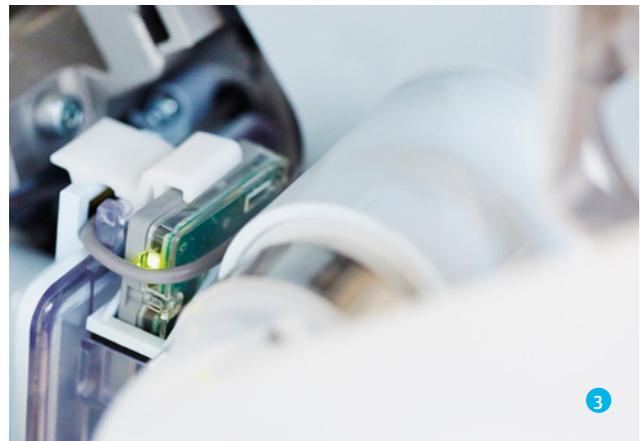
Ecopack FX guarantees precisely measured yarn lengths and thus minimizes yarn residues in downstream processing. The lower yarn sensor and snarl preventer minimise yarn waste during cycling. Yarn and dust residues are collected separately: for the recycling of valuable yarn resources.

The Autoconer X6 with all its aggregates and functional processes is consistently designed for economical and frugal use of valuable yarn resources.

Reliable high upper yarn pick-up with energy-saving vacuum



1. Smartjet
2. Snarl preventer
3. Upper yarn sensor
4. Smartcycle with suction tube



Energy-Saving Cleaning

Multijet: lower compressed air consumption

The frequency and intensity of the blowing pulses for cleaning the winding unit can be set according to customers requirements: centrally at the operating unit. This enables to control the consumption individually and save valuable compressed air.

Optimized dust removal system

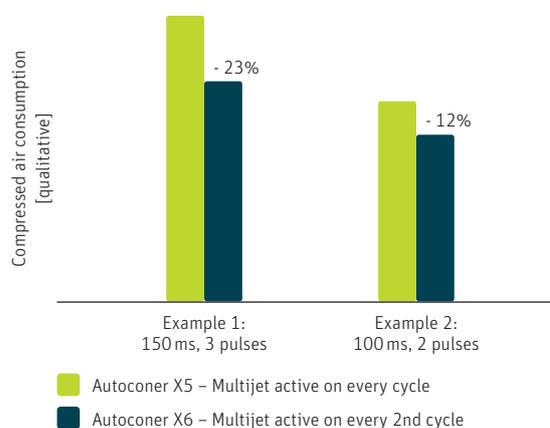
The Autoconer X6 cop dust removal system has been designed to be more aerodynamically efficient. One module can now keep 24 winding units clean, i.e. 20% more than before (not in rewinding machines).



Energy-optimized traveling cleaner

Thanks to an aerodynamically intelligent design of the traveling cleaner, compressed air is precisely directed to the critical points and thus better exploited. Customers benefit from increased efficiency through more effective drive and low energy consumption.

Reduction in compressed air consumption with Multijet



Intelligent Package and Tube Handling

Doffing in record time

X-Change doffs all common package and tube formats within a very short time (Multitube handling), with intelligent advance request mode, travel optimization, a high travel speed (43 m/min) and 10-second doffing time. The advantage: maximum doffer capacity, minimum manual effort.

A clever concept: the empty tube strategy

If the tube magazine of a winding unit is empty, X-Change automatically fetches an empty tube of the same format from a neighbouring magazine and starts package doffing straight away. It cuts waiting times and speeds up production.

Learning capability and intelligent handling

During initial application X-Change “learns” the shape and structure of the tubes and how best to grip it. It remembers this upon renewed presentation. The doffer does this automatically.

Tube Check

Thanks to Multitube handling, the X-Change doffer doffs all common package formats by itself. With Tube Check the doffer detects tubes that are not round by laser sensor and removes them independently. The packages are always held securely in the cradle to ensure high package quality.



Intermediate package storage

The combination of doffer and intermediate package storage offers further optimization potential for doffing and clearing the finished packages. Thanks to the intermediate storage of two finished packages and lot-by-lot clearing, it is possible to vary production, doffing and personnel capacity.

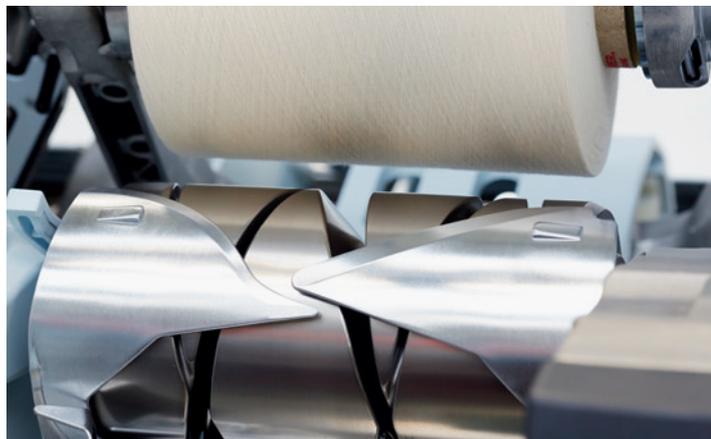
1. Intermediate package storage
2. Tube Check
3. Doffer with multitube handling



Quality Assurance in Detail

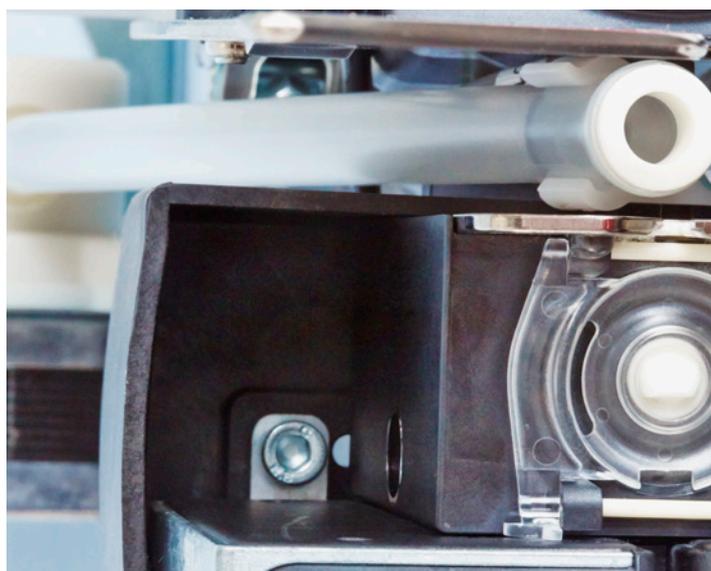
Autocalibration: on the safe side, package for package

The splicer feeder arm and the suction tube for upper yarn pick-up are self-calibrating. Everything is thus set correctly round the clock – no manual checks are required. Spinning mills profit from absolute production reliability and optimally reproducible package quality.



Quality Cut: safe in case of power failure

In case of a power failure, Quality Cut prevents uncleared yarn from being wound onto the package, avoiding wound-in yarn ends and run-out patterns.



Reliable downstream processing: the active yarn trap

The active yarn trap effectively sucks in loose yarn ends and dirt during winding – for even more process and quality assurance in downstream processing. Its aerodynamic design and targeted switching on and off during the winding and cycling process guarantee reliable function.



Easy Handling and Data Management

Powerful, comfortable user cockpit

The operating unit concept is characterized by clear functionality and utility. Capacitive touch display with a large, user-friendly 15.6" display, a zoom function, as is used in computers and smartphones as well as functional and practical graphics are characteristic.

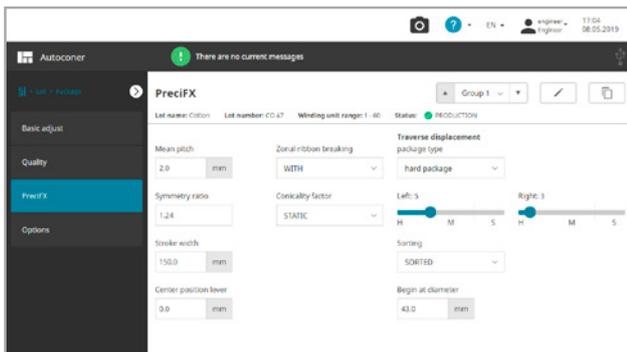
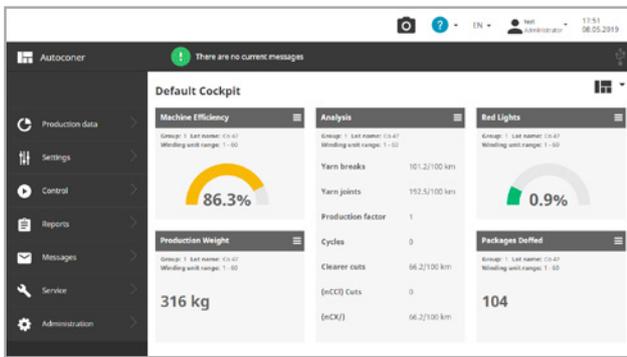
Individual configuration of the start screen with winding and process parameters of each user is possible as a cockpit. It is designed for state-of-the-art data archiving with much larger storage capacity. The extensive range of graphical and tabular evaluations can be adapted individually. Trend and history graphs over up to 15 shifts offer extensive analysis and optimization possibilities for the winding process.

Long service life, low maintenance effort

The Autoconer X6 uses extremely durable components, machine-specific optimized electronic components and robust process controls. A long service life and reduced servicing are the result – creating the ideal and easy handling production conditions!

Integration into ESSENTIAL

With ESSENTIAL, Rieter's all-in-one mill management system, data management for winding can be integrated into the overall spinning process management.



Process Reliability and Intelligent Control

Automation smartly networked

Reliability and efficiency without manual intervention. The Autoconer X6 realises this concept for the future down to the last detail.

Its automated process sequences are smartly interconnected and intelligently controlled. For increased efficiency and reliable high performance.

Upper yarn pick-up piecing cycle	Doffer X-Change	Launch control
Vacuum control Power on demand	Empty tube strategy	Slip-free start-up
Smartcycle	Intermediate storage	
Smartjet		

Smart sensor technology and autocalibration

The Autoconer X6 uses the latest sensor systems and drives for autocalibrating aggregates and functions. The advantage: precise, reproducible settings that remain stable over a long period without any manual input.

Smartsplicer	Smartcycle	Doffer X-Change
Autocalibration feeder arm	Autocalibration suction nozzle	Teaching mode
		Multitube handling

Automatic function monitoring

The functional design and intelligent sequences minimise stoppages and manual intervention. Customers benefit from greater process reliability and less workload for staff.

Circular magazine	Doffer X-Change
Automatic elimination of incorrect creelings	Package start-up control
	Tube Check



Technical Data

Machine concept	Single spindle machine, single-sided longitudinal design. Available as right-hand and left-hand machines.	Package diameter	<ul style="list-style-type: none"> • Max. 320 mm, from cylindrical to 5° 57' tubes • Max. 300 mm, for 5° 57' tubes with increasing taper to 11° • Emergency stop at 326 mm • Max. 260 mm, with intermediate storage.
Spindle gauge	320 mm from winding unit to winding unit 640 mm from winding unit to winding unit for type RC	Winding speed	Infinitely variable from 300 to 2 200 m/min, depending on yarn type, cop buildup and machine specification.
Materials processed	Single and plied yarns of natural and man-made staple fibers; a winding test may be required in some cases.	Acoustic emissions	Acoustic emission data satisfy the international standard EN ISO 9902-4.
Yarn count ranges	<ul style="list-style-type: none"> • 333 tex to 5.9 tex (Nm 3 to Nm 170; Ne 2 to Ne 100) • Winding test required for coarser or finer yarns 	Installed power	Depending on the number of winding units and the specified equipment options.
Package formats	<ul style="list-style-type: none"> • 83 mm (3 ") traverse, cylindrical to 4° 20' • 108 mm (4 ") traverse, cylindrical to 4° 20' • 125 mm (5 ") traverse, cylindrical to 4° 20' • 150 mm (6 ") traverse, cylindrical to 5° 57' optionally with increasing taper up to 11° 	Connections	Power and compressed air supply via customer connections.
Package tubes	Cylindrical and tapered, according to DIN/ISO standards.	Vacuum	<ul style="list-style-type: none"> • Vacuum generated by the suction system. • Discharge of hot exhaust air from the Autoconer X6.

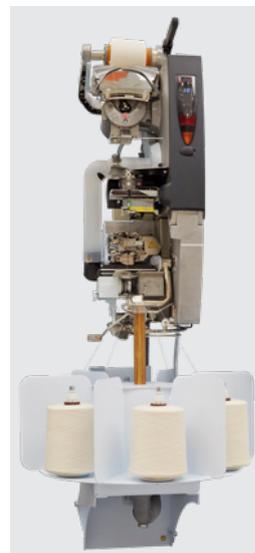
Equipment options feeding			
	Type RM		
Feed cop length	180 – 360 mm		
Feed cop diameter	max. 52 mm (9 pockets), max. 72 mm (6 pockets)		
Material feed/automation	Manual feed of cops into circular magazines sectional combination with E, K, RC		
Winding units/section size	Sections of 4, 6 winding units, 10 to 96 winding units, in steps of 2, according to section arrangement		
	Type E	Type K	Type RC
Material feed/feed change	Manual package feed Single creeling Manual feed change	Manual package feed Ergonomic with reserve package Automatic feed change mechanism	Manual package feed into large magazine (6 or 12 pockets) Automatic feed change mechanism
Number of sections, winding units, winding unit numbers	Sections of 4, 6 winding units 10 to 96 winding units, in steps of 2, according to section arrangement		Sections of 2, 3 winding units 5 to 48 winding units, according to section arrangement
Sectional combination	with RM, K, RC	with RM, E, RC	with RM, E, K



Type E



Type K

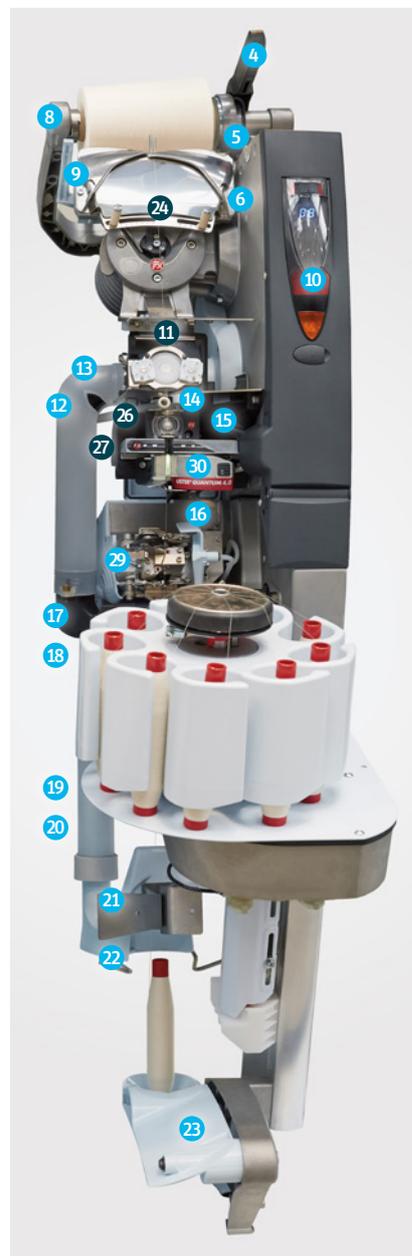


Type RC

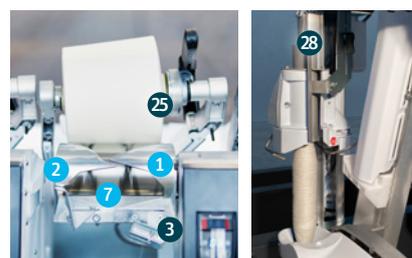
Equipment Options Winding Unit

Winding unit, winding unit control system, units in the yarn path	Type RM	Type E	Type K	Type RC
Eco-Drum-Drive System for winding speeds of 300 to 2 200 m/min (1)	■	■	■	■
Drum lap detection (2)	■	■	■	■
Quality Guard sensor (not in combination with Preci FX) (3)	■	■	■	■
Package cradle incl. cradle compensation (4)	■	■	■	■
Package brake and lift-off after yarn break or cop idling (5)	■	■	■	■
Launch Control (6)	■	■	■	■
Electronically controlled, high-speed anti-patterning (7)	■	■	■	■
Electronic length measurement and package diameter computation (8)	■	■	■	■
Quality Cut power failure circuit (9)	■	■	■	■
Winding unit display (10)	■	■	■	■
Waxing including wax roll monitoring (11)	■	■	■	■
Suction tube with autocalibration, Smartcycle (12)	■	■	■	■
Upper yarn sensor (13)	■	■	■	■
Yarn trap (14)	■	■	■	■
Tension Control (15)	■	-	-	-
Tension Control / section	■	-	-	-
Multijet (16)	■	■	■	■
Electromagnetic yarn tensioner, centrally adjustable (17)	■	■	■	■
Gripper arm (18)	■	■	■	■
Lower yarn sensor (19)	■	■	■	■
Residual yarn shears (20)	■	-	■	■
Adjustable unwinding accelerator (21)	■	-	-	-
Snarl preventer (22)	■	-	-	-
Material feed (23)	■	■	■	■
FX-Serie	■	■	■	■
Preci FX (24)	■	■	■	■
Anti-patterning system Propack FX incl. Variopack FX (not in combination with Preci FX) (25)	■	■	■	■
Yarn tension control system Autotense FX incl. Variotense FX (26)	■	■	■	■
Precision length measuring system Ecopack FX (27)	■	■	■	■
Speedster FX (28), not for rewinding machines	■	-	-	-
Automatic yarn joining				
Smartsplicer (for standard and compact yarns) (29)	■	■	■	■
Smartsplicer Injection, Thermo, Elasto (29)	■	■	■	■
Electronic yarn clearing (30)				
Standard clearer	■	■	■	■
Superior clearer	■	■	■	■

■ Standard ■ Option - not available



Type RM



Machine Equipment Options

Autoconer X6	Type RM	Type E	Type K	Type RC
Cleaning the machine				
Multijet per winding unit with adjustable frequency of the pulse	■	■	■	■
Cop dust removal	■	-	-	-
Standard traveling cleaner	■	■	■	■
Joint collecting chamber for yarn waste and dust	■	■	■	■
Separate chambers for yarn waste and dust	■	■	■	■
Automatic emptying of yarn waste chamber into a central suction system	■	■	■	■
Package doffing and removal				
X-Change package doffer	■	■	■	■
Smartjet	■	■	■	-
Tube Check	■	■	■	■
Package conveyor belt	■	■	■	■
Package removal system with intermediate storage (packages max. 260mm diameter)	■	■	■	■
Interface with automatic package removal	■	■	■	■
Information systems				
Operating unit with graphic user interface via touchscreen and USB interface	■	■	■	■
Spinning mill management system ESSENTIAL	■	■	■	■
Power unit				
Energy Monitoring	■	■	■	■
Energy Monitoring Pneumatic	■	■	■	■
Suction system with intelligent vacuum control (AVC) and sensor, Power on demand	■	■	■	■

■ Standard
 ■ Option
 - not available

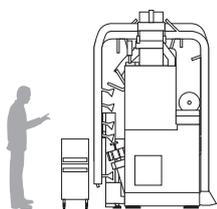
Machine dimensions Autoconer X6, type RM, E, K, RC (winding unit number samples, delivery as combination of 4 spdl. or 6 spdl. (2 or 3 for type RC) section is possible)										
Winding units RM, E, K	10	12	18	24	30	36	42	48	54	60
Winding units RC	5	6	9	12	15	18	21	24	27	30
L measurement [mm]	6773	7413	9411	11409	13407	15405	17403	19401	21399	23397

Winding units RM, E, K	66	72	78	84	90	96
Winding units RC	33	36	39	42	45	48
L measurement [mm]	25395	27393	29391	31389	33387	35385

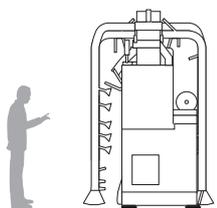
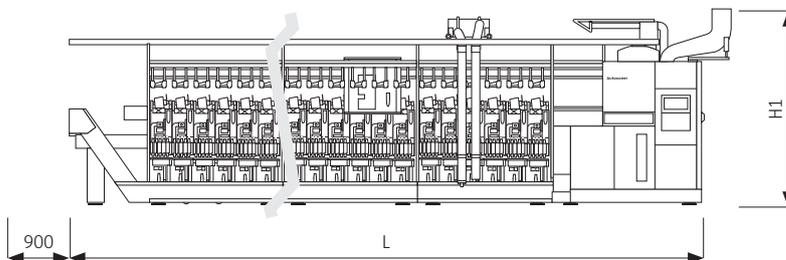
Take + 900 mm space for cop carriage shunting into account, type RM with continuous tube transport

Height	
H1 [mm]	2928

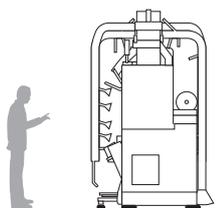
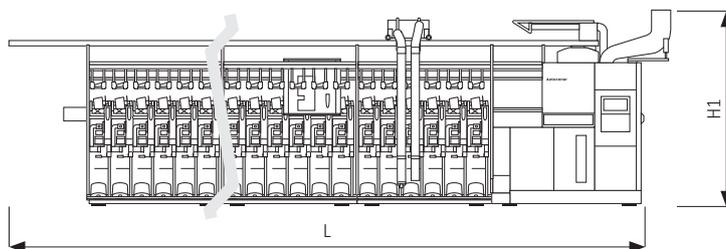
Dimensions



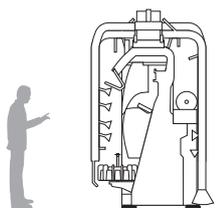
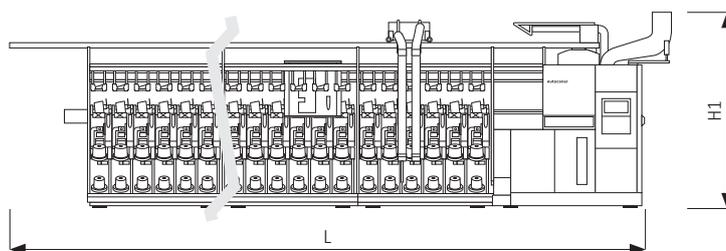
Autoconer X6, type RM



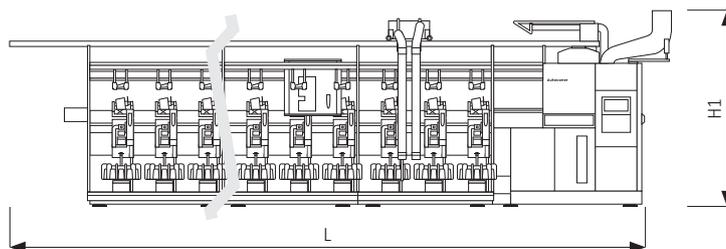
Autoconer X6, type E



Autoconer X6, type K



Autoconer X6, type RC





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