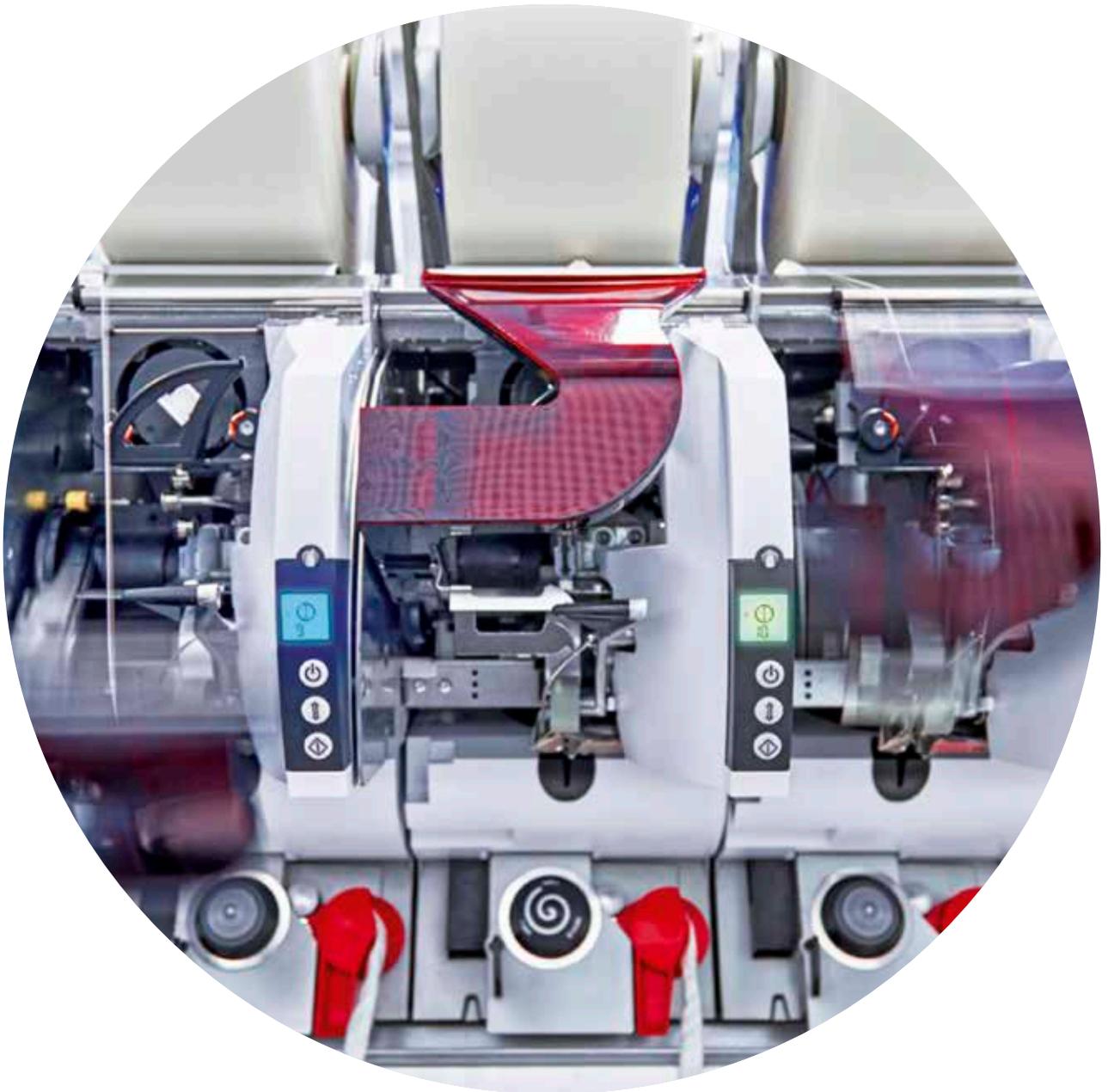


SAURER.



Think ahead.

Autocoro





Schlafhorst Systems offer the highest versatility in the market. Whether an application requires the uniqueness and productivity of air spinning or the smart flexibility of rotor spinning, we have the solution for you. Starting from the blow room and carding, the Schlafhorst Systems are designed to ensure the excellent utilization of any kind of fibre.

E³: Optimising energy, economics and ergonomics, adding intelligence. With our customers' needs always top of mind, E³ forms the basis of our design philosophy.

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Highlights

- **Benchmark for automation and digitalisation**
- **50 % higher piecing capacity with SynchroPiecing 36**
- **TurboStart: Run-up in less than 10 minutes**
- **Up to 5 % more productivity due to increased doffing capacity up to 8 DCU**
- **Higher waste tolerance with the new, flexible spin box and vacuum trash cleaner VTC**
- **Light concept enables 3 % higher performance by efficient operator guidance**
- **Mill management system Senses for analysing all spinning data in one program – in real time, safely and from anywhere**

E³ Energy Economics Ergonomics

Energy

Less Energy

- Minimum energy costs
- Maximum cost transparency through energy monitoring

Economics

Unrivalled productivity

- SynchroPiecing 36 and TurboStart
- 25% higher doffer capacity
- Vacuum trash cleaner VTC

Ergonomics

Reduced workload

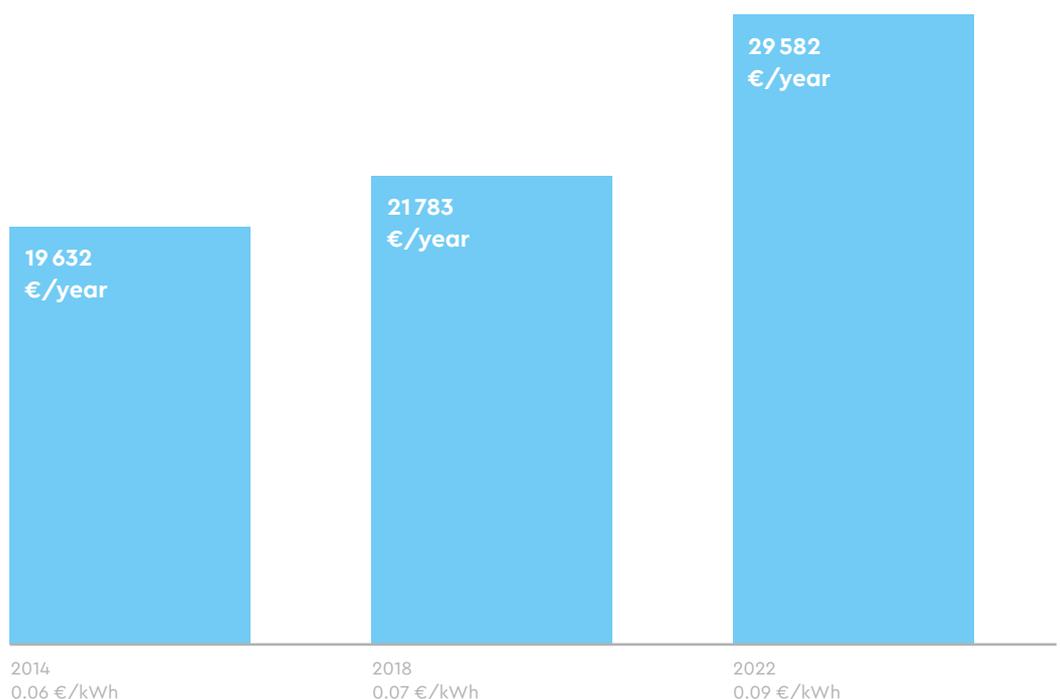
- Visualisation of spindle efficiency and empty cans

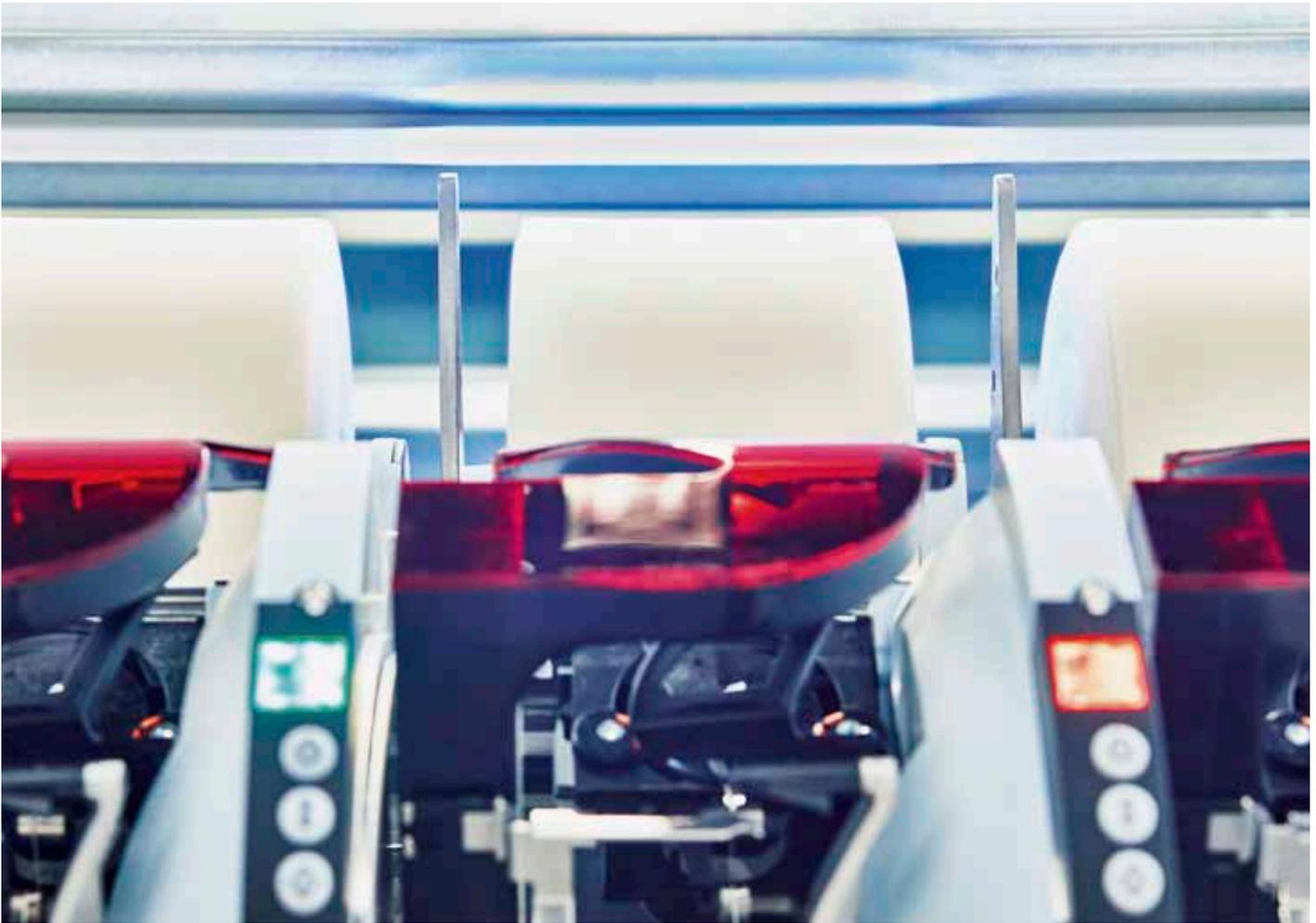
E³: our product promises

With our customers' needs always top of mind, we ensure that our products deliver optimised energy consumption, economics and ergonomics, with a focus on intelligence. This E³ principle forms the basis of our design philosophy. Our passion for textile machinery drives us to manufacture innovative products that add value to our clients' businesses.

Annual savings with Autocoro vs conventional machine

600 spinning units, Turkey, weaving yarn Ne 24, 143 000 rpm





Think ahead

The Autocoro has revolutionised rotor spinning mills. Its individual spinning positions technology and its intelligent automation and digitalisation give it unparalleled productivity. With the third generation of the legendary Autocoro, the foundations for Industry 4.0 are being laid.

Proven automation perfected for the future

You can completely trust the individual spinning position technology of the Autocoro. This sophisticated technology has proven itself millions of times. Embedded in comprehensive automation solutions, the autonomous spinning positions can fully exploit their intelligence. Human interventions are consistently reduced and sources of errors are eliminated.

Self-optimised production

We make machine intelligence reachable. The Autocoro is the first rotor spinning machine that controls itself. With the Autocoro, you can exploit opportunities for optimisation that even the most experienced operators cannot achieve.

Raw materials optimisation through waste tolerance

Reduced cleaning costs, increased spinning stability – even for extreme applications in the area of recycling, the new Autocoro sustainably increases efficiency.



Uninterrupted value creation

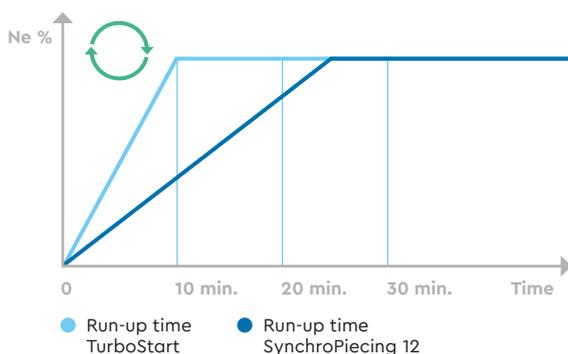
SynchroPiecing 36

The trend towards increased sustainability and use of recycled materials requires greater piecing capacity, particularly for long machines. The new Autocoro responds to this and now pieces up to 36 spinning positions simultaneously. This 50% increase in piecing capacity decouples productivity from the quality of the raw materials. Yarn breaks now rarely affect efficiency.

TurboStart

36 parallel piecing processes speed up the new Autocoro in less than 10 minutes from a downtime to the highest efficiency in continuous production. It does not take longer than this for your production to reach its usual productivity level again after a run-up or an interruption. The new Autocoro then switches intelligent to the area of SynchroPiecing numbers for continuous production.

Automatic switch from TurboStart back to SynchroPiecing 12





Up to 25% less energy costs

Energy-saving drives

Innovative e-drives with improved process and control technology save many thousands of kilowatt hours year after year.

Energy Monitoring

Check your energy consumption online and read it off conveniently from the HMI, per lot or per kilogram of yarn. Make your production even more energy-efficient.



Best solutions for recycled fibres

Up to eight doffing units

The new Autocoro with up to eight doffing units ensures high efficiency with coarse yarns with short production intervals, e.g. made from regenerated fibers, even if they are produced on long machines.

Vacuum trash cleaner (VTC)

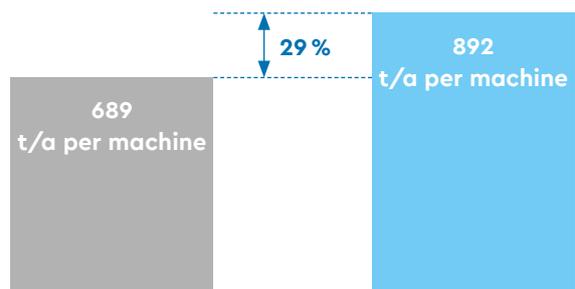
Especially when spinning recycling yarns, the machine environment is increasingly polluted by dust and fibre residues. The VTC removes them particularly efficiently. The spinning boxes remain clean and efficiency increases while the manual maintenance effort decreases.

Flexible spin box

The fibre beard supports of the new spin box can be lengthened or shortened by simply clipping them on and off. This means that the speeds of the opening roller can be precisely matched to the raw material. This also ensures the desired quality when spinning recycled yarns and at the same time minimises fibre losses.

29% more productivity for recycling yarns

Ne 30, 65% regenerated cotton, 35% PES



conventional machine
600 spinning units
94 000 rpm
200 yarn breaks/1000 rh

Autocoro
600 spinning units
120 000 rpm
1400 yarn breaks/1000rh

**Flexible MultiLot technology**

The Autocoro spins up to five lots at the same time. With Fancytation, it can spin both flat yarns and effect yarns. The lots can be assigned individually according to their size.

Lot changes and test packages at full production

With smooth lot changes, the Autocoro changes from one lot to the next without loss of production, even with clean lot separation when changing cans and spinning components.

With PilotSpin you can produce any number of test packages with different settings, while the remaining spinning positions simply continue spinning.



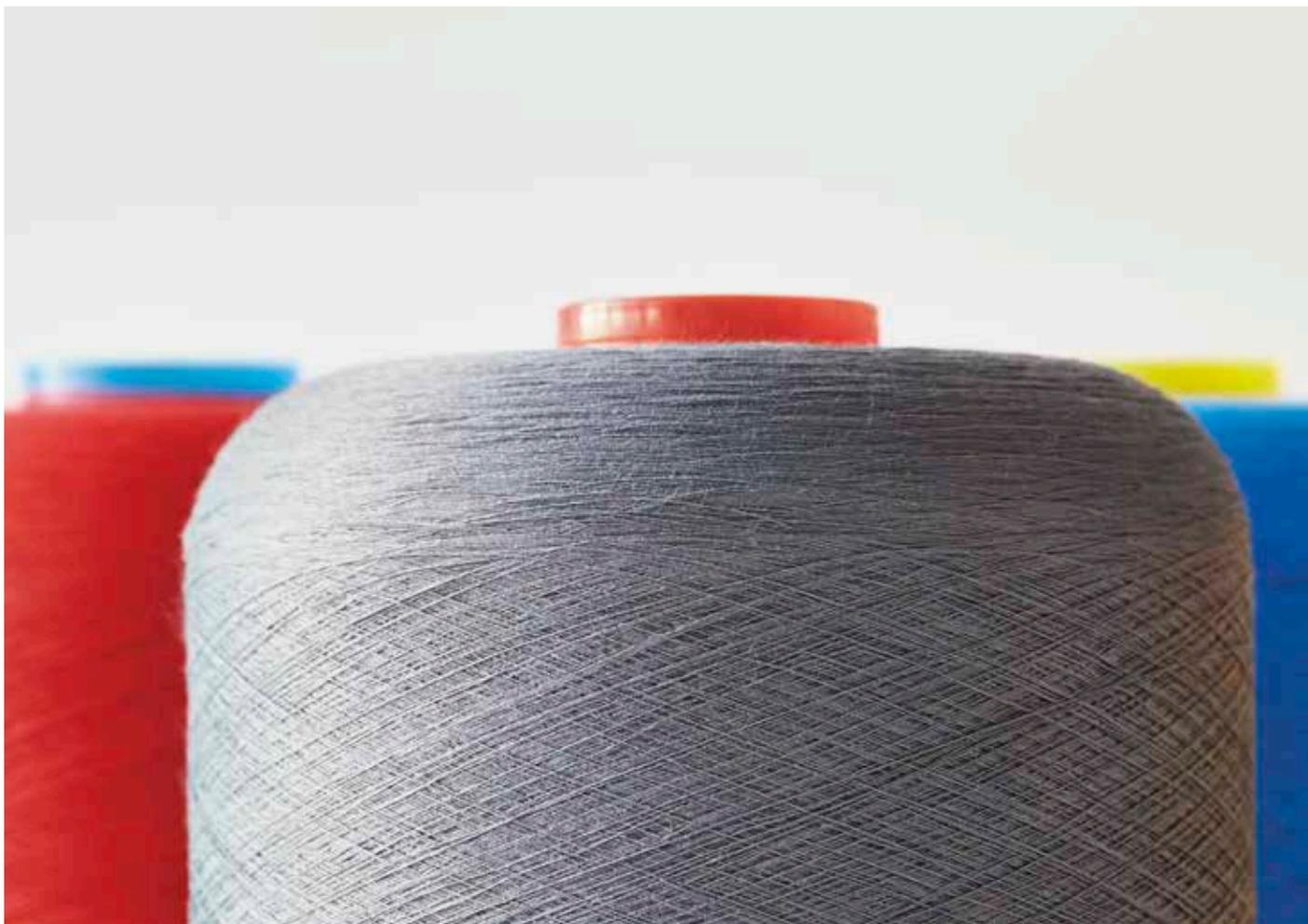
Digitally controlled quality

100% digital piecing

In-line DigiPiecing, the completely digitally controlled piecing technology in each spinning position, guarantees the highest quality of the piecings. It is also reproducible.

100% digital winding

Autocoro packages manufactured with DigiWinding have straight flanks and are up to 10% heavier with the same diameter. They increase the efficiency in weaving and knitting and save logistics costs for the spinning mill. This means freight costs are also reduced when they are shipped in sea freight containers.

**Save process costs**

With DigiWinding FX you produce high-quality, rounded dye packages directly on the Autocoro. Folding and rewinding are no longer necessary, and yarn production costs are reduced.

Perfect packages in all diameters

FlexPack FX increases the profitability of all package types, generates dye packages with rounded edges, packages with straight flanks or oversized packages in perfect, digitally controlled quality.



Controlled success

Signal concept increases efficiency

A showy signal concept with coloured LED bars above the operators long inspection patrols. It signals run dry cans and spinning positions with reduced productivity. The operators are guided efficiently. The efficiency increases by up to 3%. Symbol displays at each spinning position provide information for the operators about the different lots on the machine by using bright colours. Perfect control.

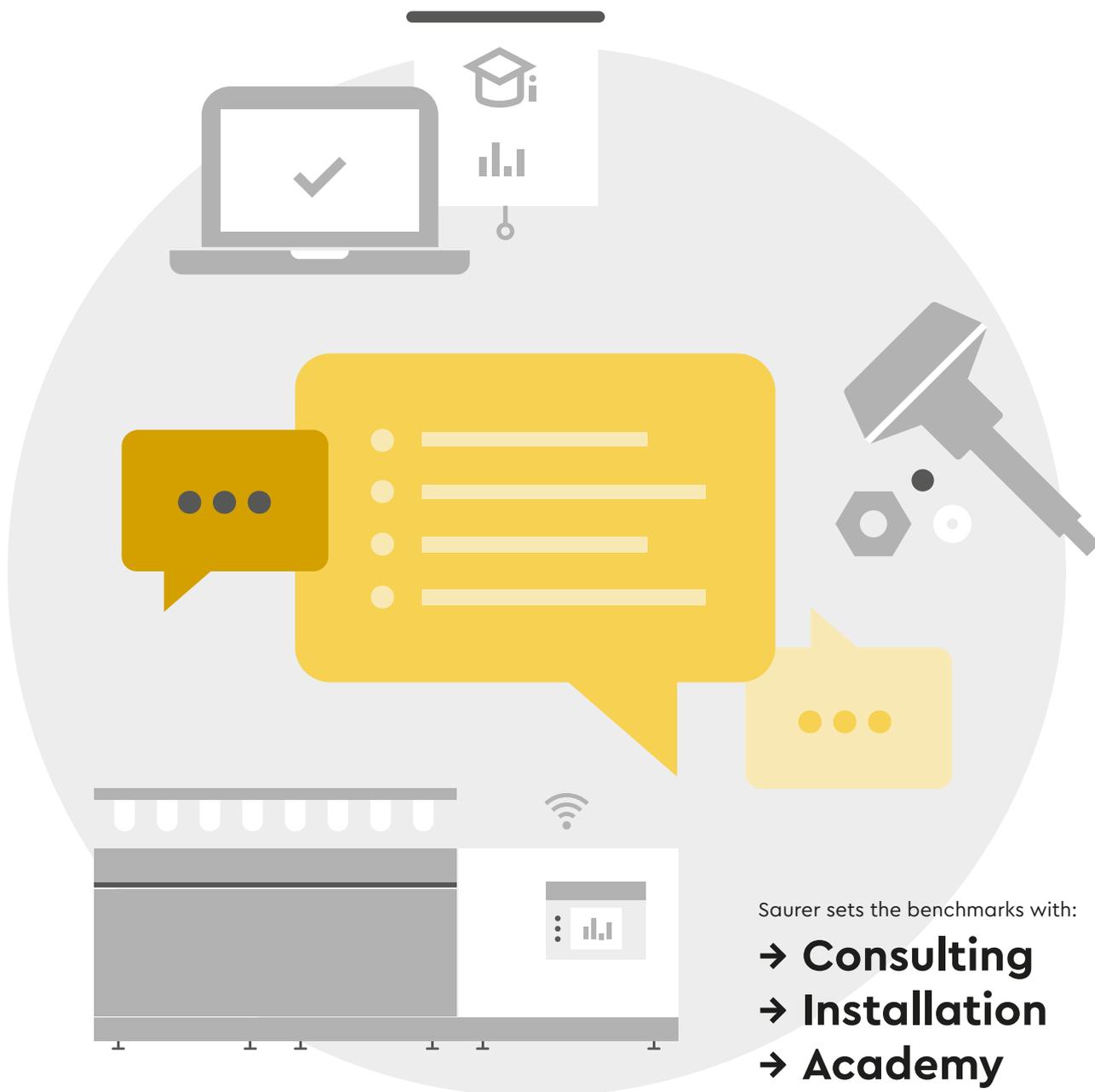
Equipped for Industry 4.0

The new Autocoro heralds the digital age in rotor spinning. Perfectly automated and intelligently digitalised, it is best equipped for Industry 4.0. Exploit new opportunities with the Autocoro and meet the challenges of the future.

Mill management system Senses

Senses is Saurer's IOT platform that allows you to connect all Saurer and third-party machines in one system. The application increases overall product quality and productivity through detailed and transparent data monitoring across various production processes along the textile chain. In addition, Senses supports the user with important information to quickly find problem-solving solutions. It runs on all mobile devices and a highly flexible user interface and the on-premises installation ensures high data security. Senses reduces your labour costs by automatically collecting and analysing data – even for future use without loss of data. Senses Elements are modular extensions of Senses to manage your mill and widen the function range in the areas that are particularly important to you. You can easily purchase the Senses Elements in our own Senses Software Shop.

Sun



Saurer sets the benchmarks with:

- **Consulting**
- **Installation**
- **Academy**
- **Original Parts**
- **Maintenance**
- **Updates and Upgrades**

Sun – Service Unlimited

Strong and reliable life-cycle partnership.

Unique smart solutions to increase the benefit to the customer.

Notable performance and sustainability throughout the machine lifetime.

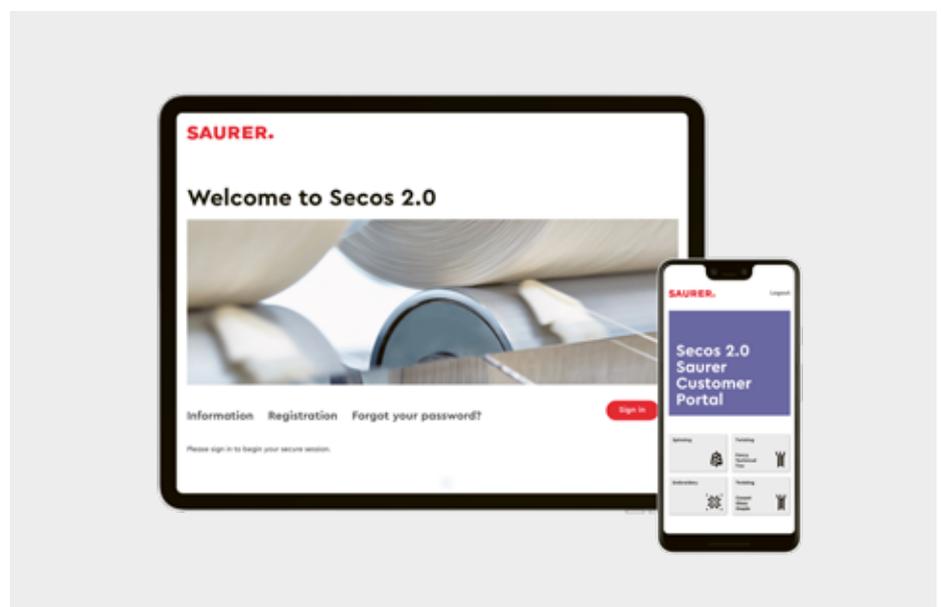
Sun is a bundle of differentiated services that add real value to Saurer machinery throughout its entire life cycle. Highly trained staff using state-of-the-art tools improve our customers' daily operations in a flexible and individual way. We provide the owners of Saurer machinery with innovative solutions and services to improve the product quality, machine performance and profitability.

We keep you competitive.

Secos

Saurer Customer Portal

- Order Saurer original parts quickly through the Secos e-shop. The most common wear parts for each machine type can now be found more easily with photo catalogues.
- Find instead of searching: all your data, all your machines, all your original parts at a glance
- Convenient order management with order history going back 5 years
- Quick finder functions with one-click buttons for favourites and current Saurer offers



Technical data (Basic equipment and options)

Automatic rotor spinning machine Autocoro

Technically designed for rotor motor speeds up to 200 000 rpm

Rotor motor speeds from 20 000 until 180 000 rpm in practice

Spin box SE 20

Take-up speed up to 250 m/min

Piecing with digital piecing technology DigiPiecing

Doffing of full packages with the doffing and cleaning unit Doffing Cleaning Unit (DCU)

Sectional design with 24 spinning positions per section

Spindle gauge: 230 mm

E-Drive technology for energy-saving yarn production

Max. number of spinning units: 768

Technology data

Raw materials

Natural and manmade fibres and their blends

Fibre length up to 60 mm

Yarn count range

167 – 10 tex

Nm 6 – 100

Ne 3.5 – 60

Sliver count

8.0 – 2.5 ktex

Nm 0.125 – Nm 0.40

Ne 0.07 – Ne 0.24

Draft

25 – 400 fold

Basic machine

Digital controlled piecing technology DigiPiecing for simultaneous piecing	●
Energy Monitoring on the informator, shows the energy consumption per kg yarn	○
SynchroPiecing 6 for up to 6 simultaneous piecings	●
SynchroPiecing 12/24/36 for up to 12, 24 or 36 simultaneous piecings	○
TurboStart for up to 36 simultaneous piecings during the machine ramp-up time - Deactivated after finalisation of ramp-up - Piecing during normal production with selected SynchroPiecing execution 6, 12 or 24	○
PilotSpin: freely selectable number of related spinning positions - For the production of sample and test packages with up to 5 different settings - No automatic package doffing	○
2 package doffing and cleaning units with EIS (Event Identification System) - Integrated cleaning head for the pneumatic and mechanical cleaning of spinning components - Pneumatic cleaning of spin box and winding head - Operation with colored touch display - Automatic cover opening at the touch of a button	●
DCU Status-Light Visualisation of empty starter-bobbin in DCU (with LED)	○
Empty can and spindle efficiency visualisation with LED bar - Visualisation of empty spinning cans and off-standard machine efficiencies with colored light signals above every spinning unit	○
VTC Vacuum Trash Cleaner for suction of fluff and dirt	○
Tube magazine for up to 432 empty tubes , arranged in 12 rows with 36 empty tubes per row	●
Tube magazine for up to 576 empty tubes , arranged in 12 rows with 48 empty tubes per row	○
EVA Electronic Vacuum Adjustment for a constant and electronically controlled spinning vacuum 65 to 95 mbar	●
Informator: Input of spinning parameters, data display on screen or via an external printer (not included in the scope of supply) by means of USB interface	●
Dual-chamber system Yarn residues, waste and fibres are collected separately	●
Optimized trash removal - Optional for machines up to 552 spinning units - Standard equipment for machines with 576 spinning units and longer	○ ●
Fancynation yarn device , number of sections operated with Fancynation can be freely selected in combination with MultiLot (option)	○
Connection to central waste disposal systems	○
Conveyor belt per machine side for package removal	●
Connection to central transport systems for packages	○
Central lubrication and bearing temperature monitoring of the suction system motor	●
MultiLot processing system 2/3/5 Simultaneous production of up to 2, 3 or 5 lots on one machine, including - Seamless lot changes - Tube magazine with single-motor drive of lot-related tube rows in up to 5 groups - Automatic tube colour detection by sensors (single-colour tubes) - 2 package conveyor belts with individual control	○
Senses Mill Management System	○

● Basic equipment ○ Option

Technical data (Basic equipment and options)

Spinning and winding unit

Spinning unit

Corobox SE 20:

- Metal cover ●
- Exchangeable fiber beard support with freely selectable length (short or medium length)
- Single-motor driven rotors, magnetic axial and radial bearings
- Technically designed for rotor motor speeds up to 200 000 rpm,
rotor speeds from 20 000 – 180 000 rpm in practice with infinitely variable setting and digital control
- Single-motor driven opening rolls with infinitely variable electronic setting and digital control
- Single-motor driven and digitally controlled SDSI Single Drive Sliver Intake

Additional exchangeable fiber beard support (short or medium length) ○

DigiPiecing: Digitally controlled piecing technology at each spinning position by means of single-motor driven piecing elements ●

Yarn quality monitoring

Corolab XQ – digital yarn monitoring system for quality control and for clearing thick and thin places ●

Corolab XF – digital yarn monitoring system for quality control and for clearing thick and thin places and foreign fibres ○

Digital piecing tester at each spinning position ●

Winding unit

Digitally controlled winding process and package build with single-motor package drive and single-motor yarn guide ●

Take-up speed: Up to 300 m/min for any machine length ○

DigiWinding: Digitally controlled function for straight package flanks without traverse reduction, complete digital anti-patterning ○

DigiWinding FX: Rounded package flank transitions mean reduced process costs in the production of dye packages, includes DigiWinding ○

Multicolour symbol display: Menu navigation based on symbols and pictograms, display of the production groups in different colours ●

Electronic length measuring unit for packages with a defined yarn length ●

Motor-driven waxing device for wax rolls up to a size of 75 × 50 mm ○

Additional package cradle damping for manmade fibers (Tilger) ○

Package formats

Cylindrical packages up to 300 mm in diameter ●

Tapered packages 1°50' up to 280 mm diameter ○

FlexPack FX: Cylindrical packages up to 350 mm diameter, packages with particularly high or particularly low density and for packages with rounded flanks ○

● Basic equipment ○ Option

Spinning cans

Round cans

Ø 457 mm (17,5"): two rows

Ø 530 mm (20"): three rows

Height 900 mm up to 1 200 mm (36" to 48")

Rectangular cans

220 mm width x 970 mm depth

Height 900 – 1 200 mm (36" to 48")

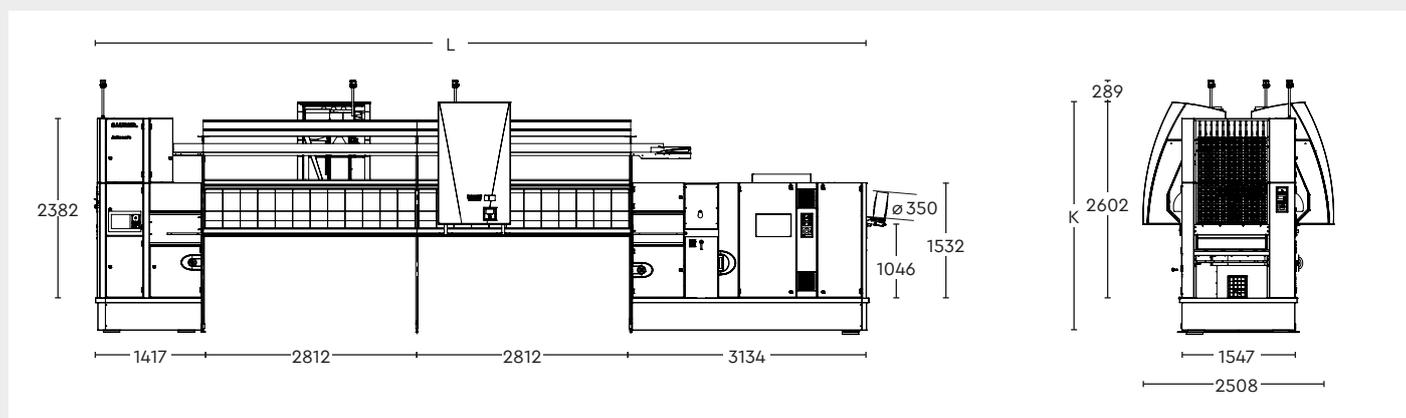
Height when using can supports: 1 070 mm (42")

Dimensions

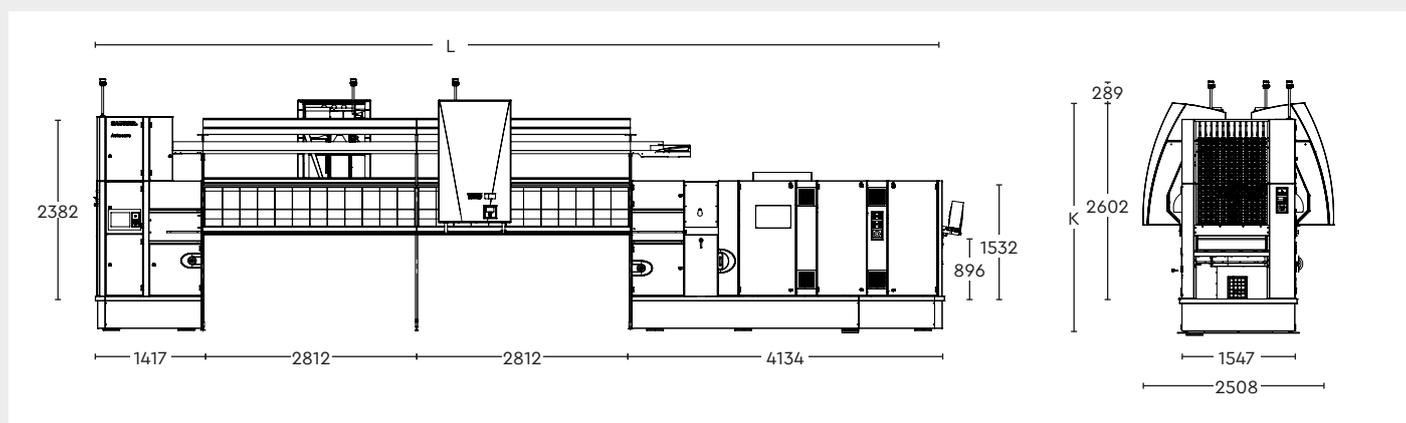
Dimensions and weights

	Spinning units	Sections	Net weight (2 doffers)	Length L1	Net weight (2 additional doffers)
	48	2	6 800 kg	10 174/11 175 mm	600 kg
for each additional section	24	1	1 400 kg	2 812 mm	

Suction unit (standard design)



Suction unit (reinforced design)



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Our quality management system complies with the requirements of EN ISO 9001.



Partner of the Engineering Industry Sustainability Initiative

Regarding this brochure

Research and development never stand still. This may mean that some statements about the Autocoro have been rendered obsolete by technical progress. The illustrations are selected for informative content only. They may contain special equipment which is not included in the standard scope of supply.