

SAURER.



Moving ahead.

Autocard SC 8





The features of our new Autocard SC 8 ensure excellent fibre utilisation, sliver quality and spinning efficiency. Saurer's pre-spinning portfolio from blowroom to carding is the basis for top yarn quality for ring, rotor and air spinning systems.

Saurer is a leading, globally active technology company with a focus on machines and components for yarn production. We support the textile industry in the areas of sustainability, digitalisation, and automation. For decades, sustainability has been an important part of our vision. The basis of our design philosophy, E³, optimizes energy, economics and ergonomics of every new machine generation with added intelligence. Anticipating the need for circular economy, all of our machines are already optimised to process recycled or regenerated fibre materials.



Content

6

The 3rd generation

8

Blowroom/carding process process

10

High carding quality

12

Intelligent automation and digitalisation

13

Chute feeder

14

High efficiency

15

Technical data

18

Senses & Sun

Spotlight Sustainability.

Sustainability has been a focus at Saurer for decades. Saving resources is enormously important to us when developing new machines, technologies and upgrades. Our machines are optimised for the processing of sustainable fibre materials. Benefit from these features in the future when you use sustainable fibres to give textiles a second life.



Our development philosophy

Through cutting-edge research and development, we boost our clients' profitability by improving our products' flexibility, increasing output and saving on raw material. increasingly, our machines are also becoming smarter, reducing the need for human involvement, which allows our customers to save on cost.

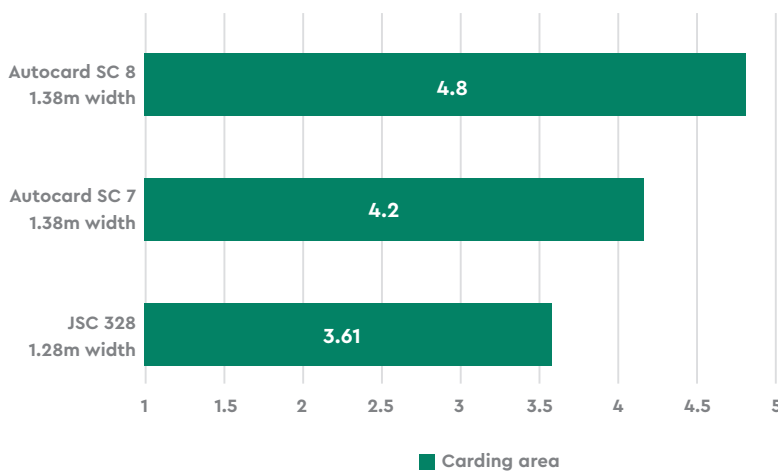
With the transformation of the textile industry for the Circular Economy, the processing of sustainable fibres is another important focus point in our development.

Main benefits

- 28% increase in production
- 30% space saving
- 25% energy saving in production
- 50% less labour and daily maintenance costs

Carding Area

in square meters

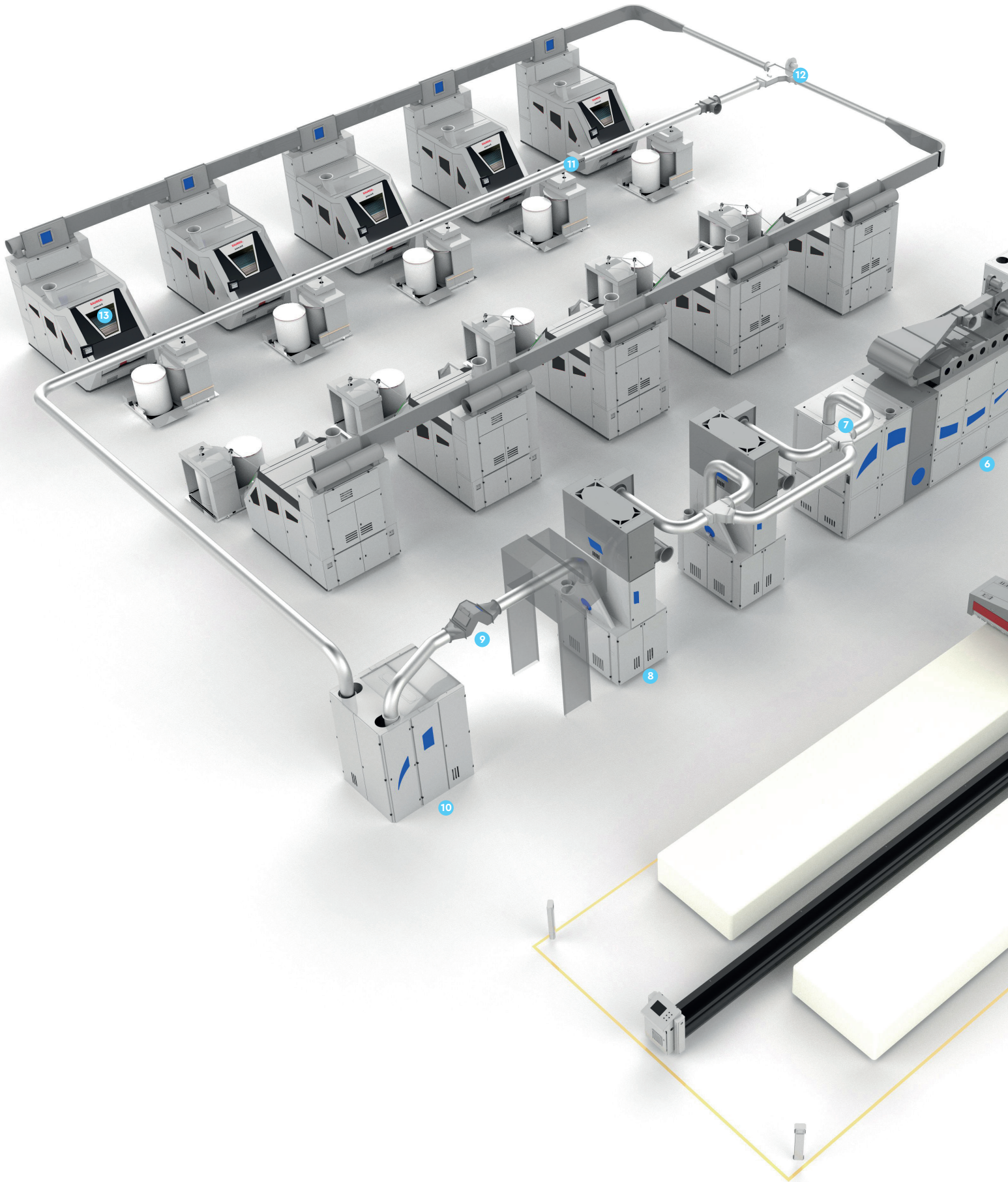


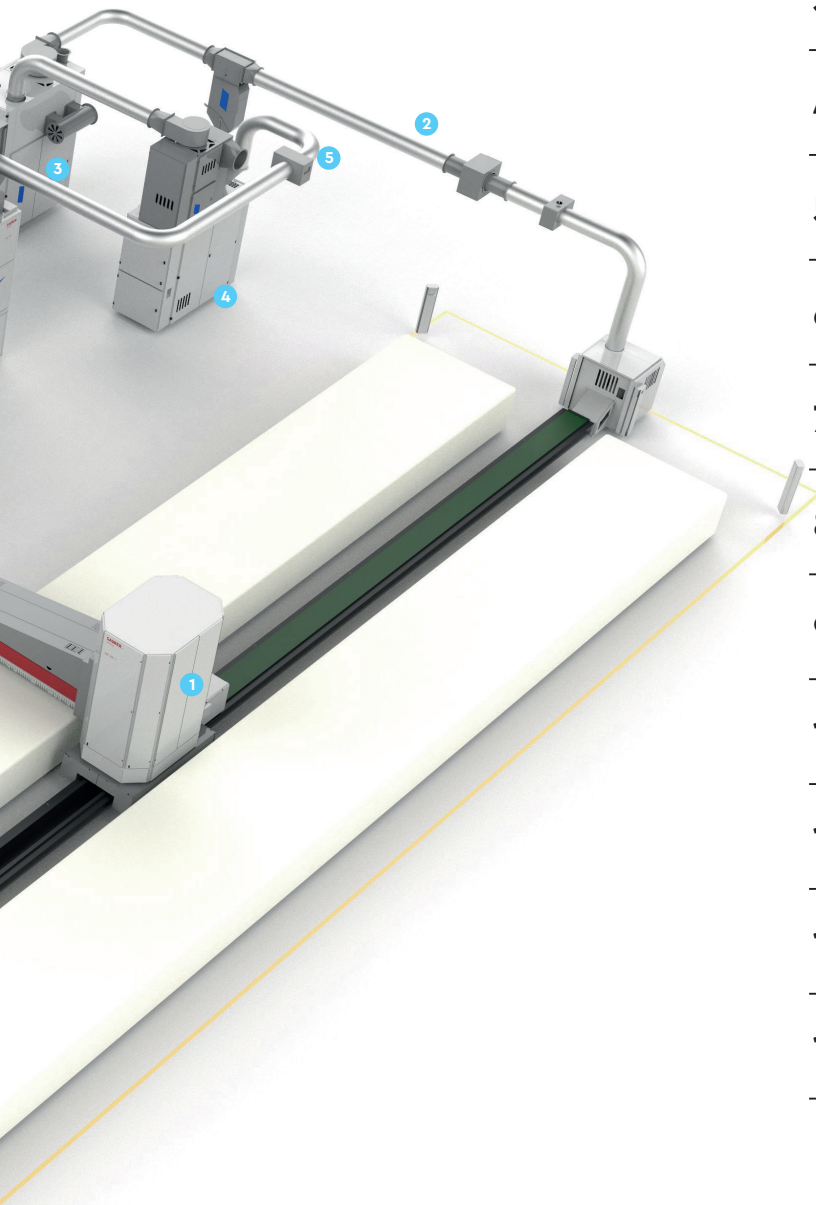
The 3rd Generation.





- **Increased production**
With the largest carding area, Autocard SC 8 production is increased by 28% and energy consumption is reduced by 25% while maintaining the same quality.
- **Higher automation**
We do everything to make the machine easier to operate. On-line monitoring and automatic adjustment of the gauge between the revolving flats, detection and automatic adjustment of the droppings, on-line control of the fibre quality, assisted piecing and much more make the operator's life easier.
- **More digitalisation**
Real-time monitoring of the temperature in the cylinder working area combined with intelligent calculation allows to display the distance between the revolving flats and the cylinder in real time.
- **Process control**
Easyspin displays various process parameters to the operators. Equipped with the Predata network module, you can remotely monitor the Autocard SC 8 and get real-time information on the production status.
- **Improved quality**
Thanks to an automatic monitoring and adjustment system of the distance between the rotating flats and the carding cylinder, the carding gap is kept stable, and the carding quality is guaranteed in real-time.





-
- 1 JSB 008D Reciprocating bale plucker

 - 2 119 MD6 Spark and metal dual separator

 - 3 JSB 100 Multi-function air-flow tower

 - 4 JSB 103A Mono-axial flow opener

 - 5 119E Spark separator

 - 6 JSB 325/JSB 027 Multi-mixer

 - 7 TF 29 Three-way control valve

 - 8 JSB 318/JSB 319 Fine opener

 - 9 TF 27 Magnet trap

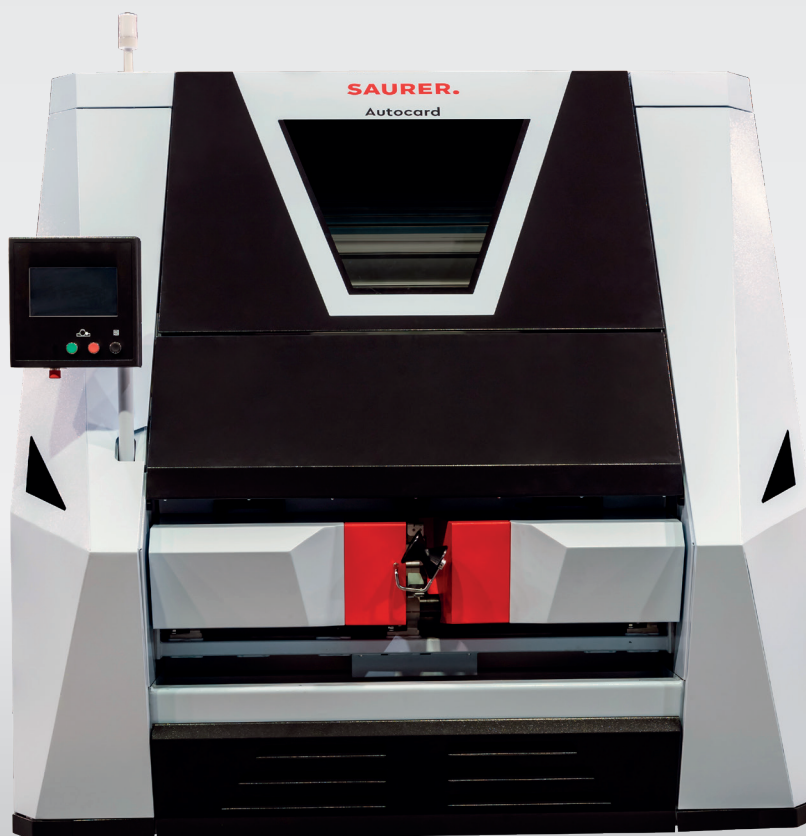
 - 10 JSB 201 Dedusting machine

 - 11 119 E Spark separator

 - 12 TF80 T Shape distributor

 - 13 Autocard SC 8

Flexible blowroom/carding process for all fibre materials from natural fibres, like cotton, to man-made fibres and recycled and regenerated fibres.



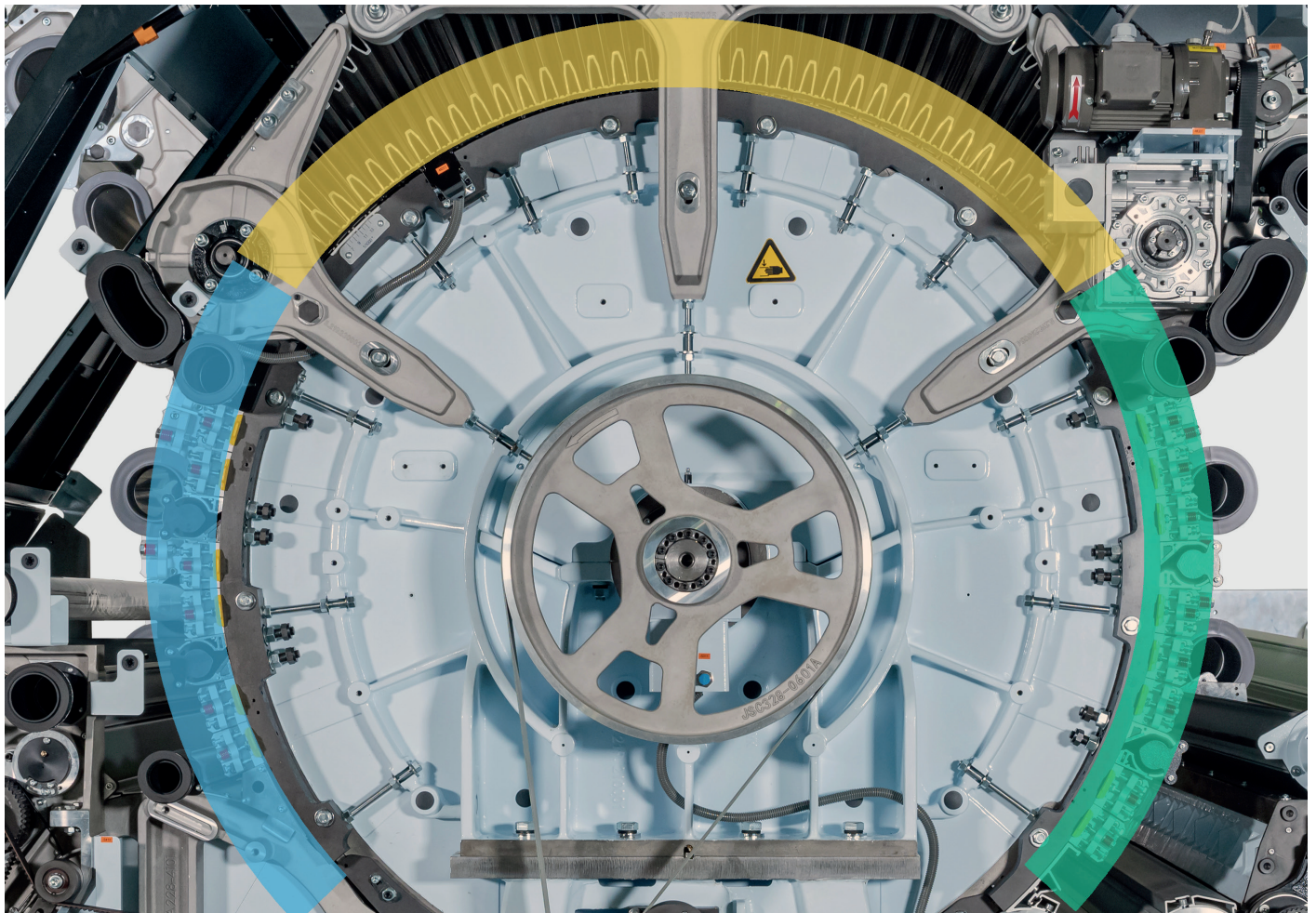
High carding quality.

The brand new Autocard SC 8, with its outstanding performance and innovative technology, is moving ahead in the development of carding machine technology. With a width of 1.38m metres and a cylinder diameter of 1.46m, the Autocard SC 8 is specially designed for customers who require high efficiency and high-quality fibre processing.

Whether it is to improve production efficiency, enhance product quality or make equipment maintenance more convenient, Autocard SC 8 is the ideal choice for spinning mills aiming to improve yarn quality.

Product highlights

- Suitable for all short fibres
- Maximum cylinder diameter: 1.46m*
- Maximum carding area: 3.43m*
- Maximum carding area: 4.8m² *
- Temperature and metal detection in cylinder zone
- Dropping detection and automated setting
- Pneumatically assisted piecing
- Integrated chute feeder
- Seamless can change
- Core components for energy saving



- Front carding 0.95m 12 front flats
- Revolving flats 1.44m 112 revolving flats, 42 working flats
- Rear carding 1.04m 16 rear flats

4.8m² effective carding area

We moved ahead by increasing the size of the SC 8 cylinder to 1.38m width and 1.46m diameter. In addition, the innovative design and positioning of the licker-in and doffer elements increase the effective carding section length and thus the carding area.

The carding section length is increased to 3.43m from 2.82m on the previous generation.

The effective carding area is expanded from 4.2m² to 4.8m².

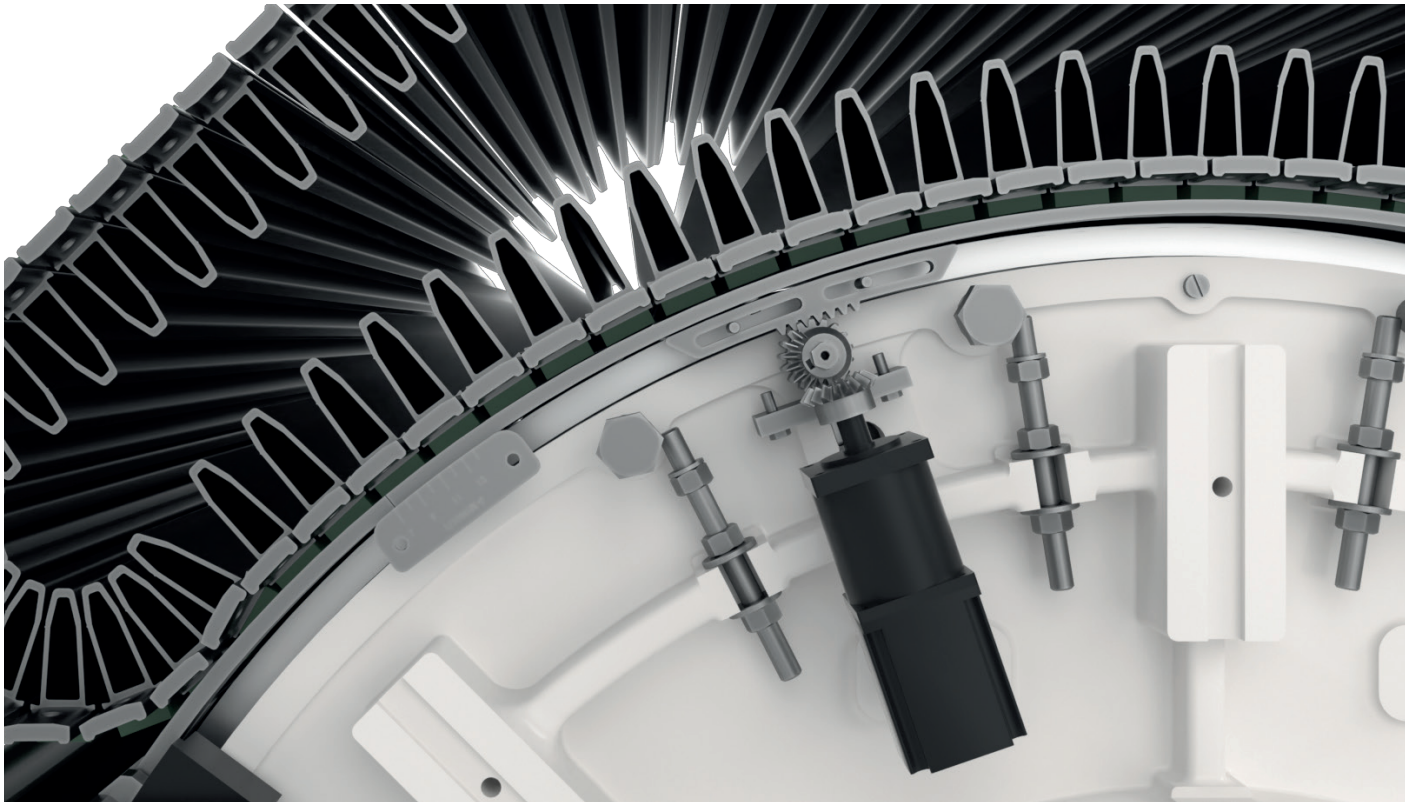
This innovation ensures that fibres are fully carded, and sliver quality is the same. Autocard SC 8 achieves higher carding production with less energy consumption, using less space and maintaining sliver quality.

Core components for energy saving

Minimum power consumption is ensured thanks to the higher precision of key components such as the cylinder, doffer, and electrical parts. In addition, the Autocard SC 8 incorporates servo motors to improve control accuracy and eliminate the need to change pulleys during technical adjustments.

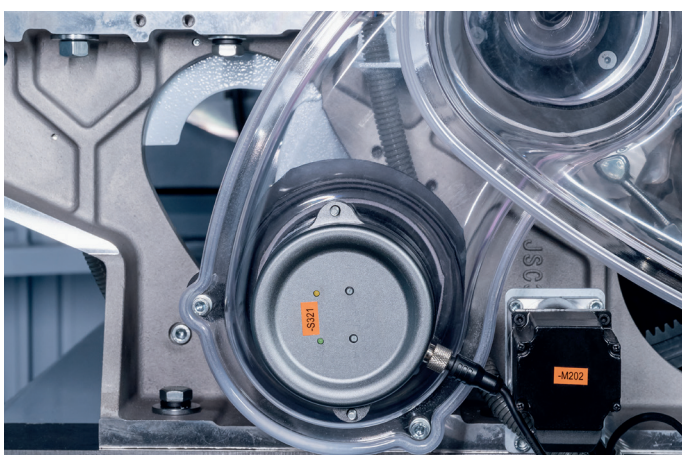
Each drafting unit is driven independently, allowing operators to easily adjust the process online.

Automated. Digital. Intelligent.



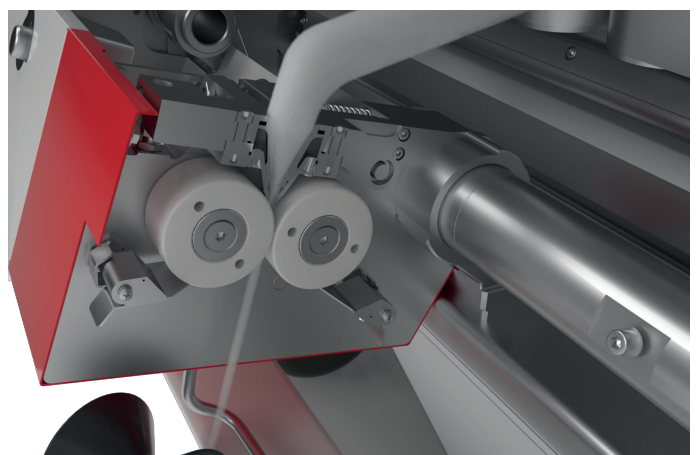
Automatic online adjustment of revolving flats gauge

The revolving flats gauge plays a crucial role in controlling the quality of the card web. The Autocard SC 8 revolving flats uses patented anti-thermal deformation technology to prevent bending deformation of the aluminium flats during the carding process. At the same time, real-time monitoring of the temperature in the cylinder working area is used to achieve on-line adjustment of the revolving flats gauge. The optimum gauge value can optimise the reduction of neps and impurities, reduce fibre damage and improve the service life of the card clothing.



Droppings detection and automatic setting

A droppings detection device has been added to the suction hood of the licker-in waste collection area to monitor the droppings of the carding machine in real time. Automatic adjustment of fibre droppings can ensure maximum fibre utilisation and satisfying sliver products.

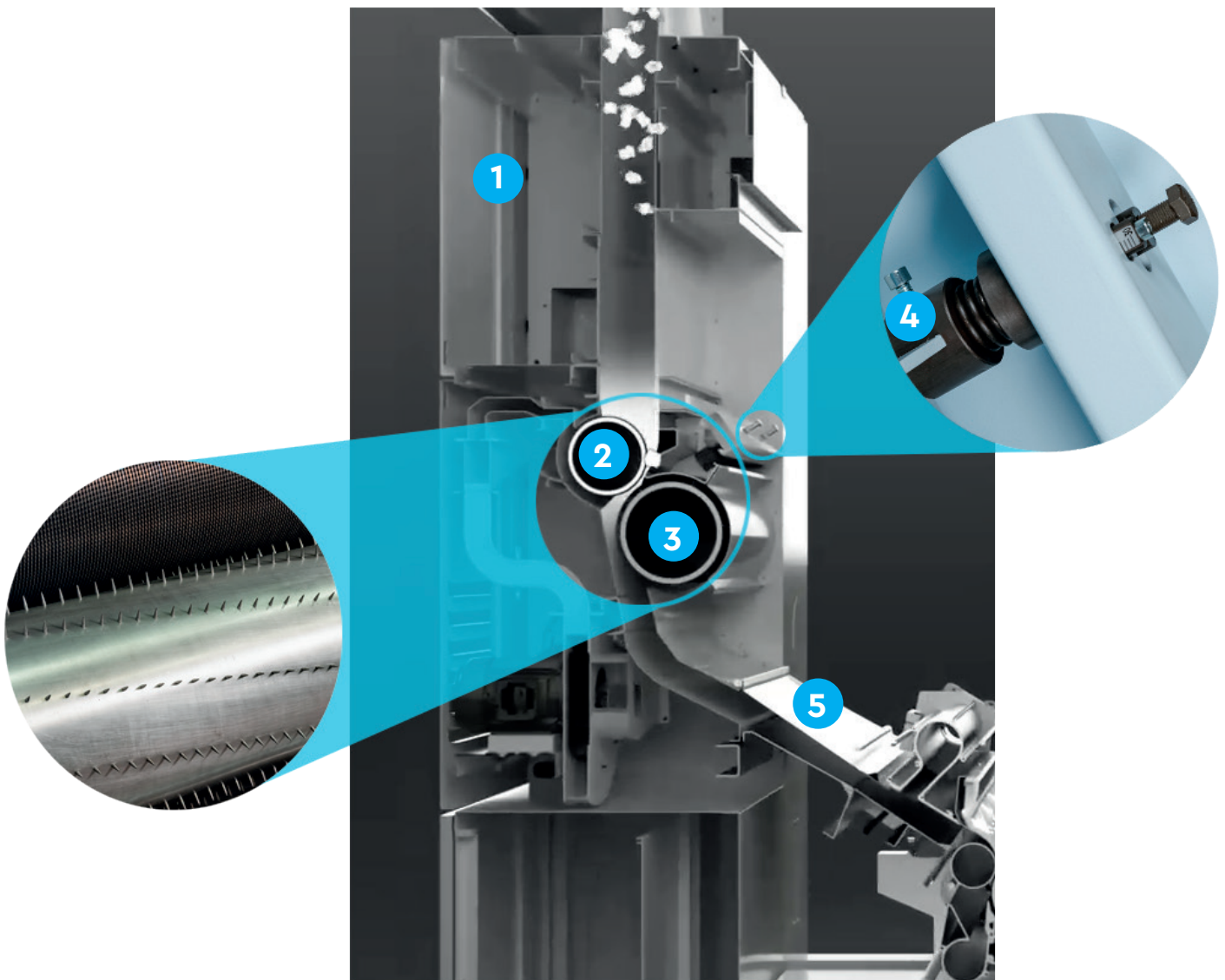


Automatic assisted piecing

Compared to traditional carding machines, the piecing process is simpler and requires less time. In addition, this reduces the need for skilled workers in the carding room and improves production efficiency.

New high efficiency chute feeder

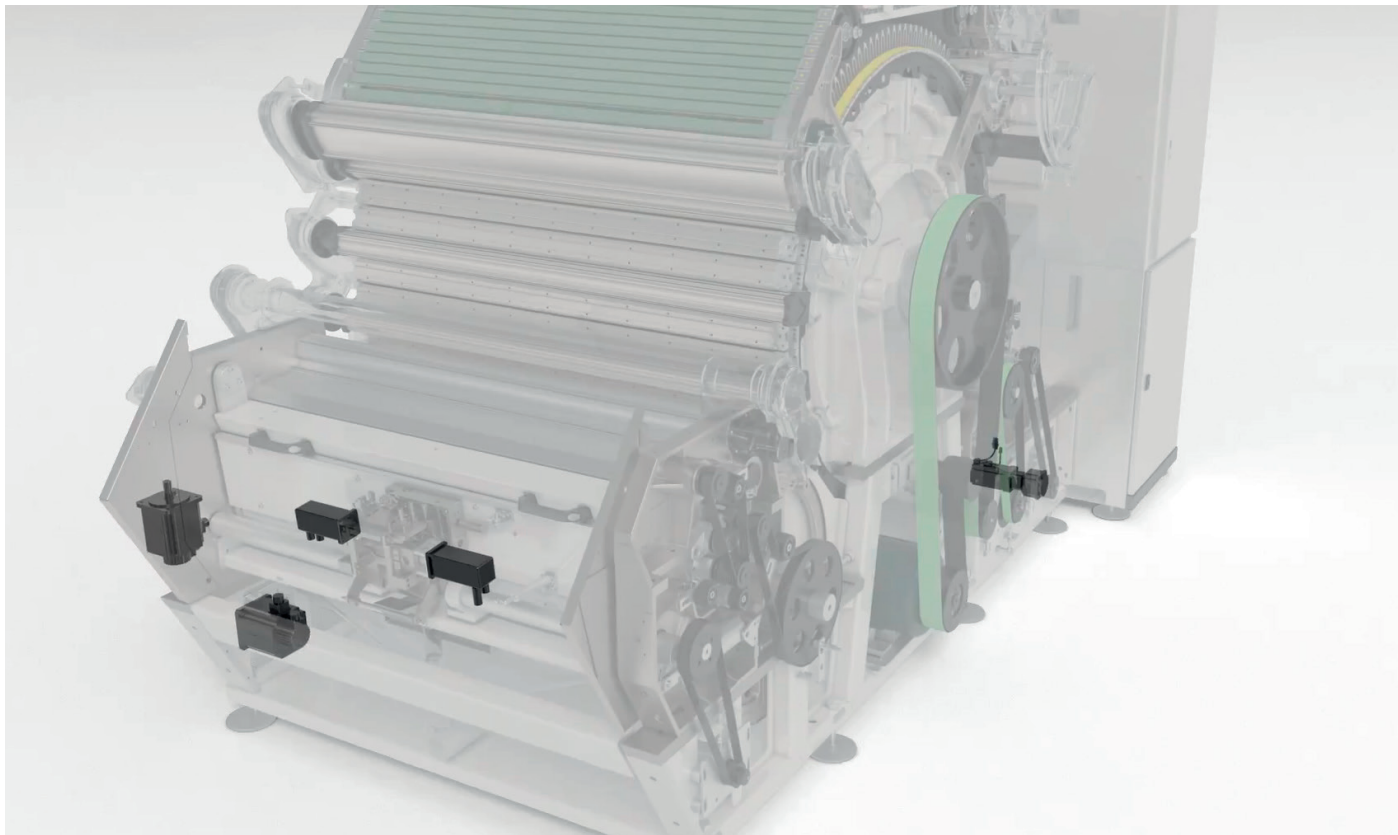
By increasing the cotton storage capacity of the chute feeder and using an enlarged feeding roller and elastic pressure feed shoes, a more continuous and smooth holding and feeding of the fibres is guaranteed. The fibre flow from the blowroom process pipeline is continuously and evenly transported to a stainless-steel channel after being opened by the beater.



1. Cotton box with 20% more storage capacity
2. Larger diameter of the feed roller (250mm)
3. Spiral carding beater with more teeth (diameter 300mm)
4. Elastic pressure feed shoes, for more reliable, stable fibre supply
5. Integrated chute feeder

Each drafting unit has an independent variable speed regulation

Online process adjustment is more convenient

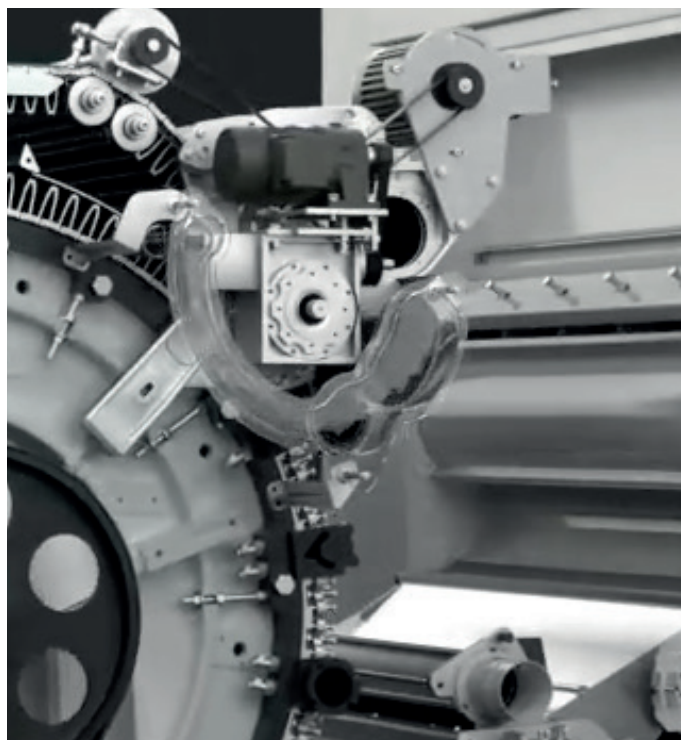


Energy saving motor

A permanent magnet motor is used to drive the cylinder, licker-in and cotton box, and a servo control is utilised for carding and feeding the fibres, resulting in a saving of more than 25% in power consumption.



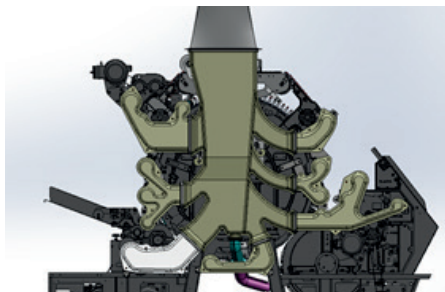
Independent frequency motor driven revolving flats



Flexible configuration for different raw materials.

Suction options

Three types of suction are available to realise the different utilisation values for different applications. Fibres can be collected separately to increase fibre utilisation and economic benefits.



Overall suction

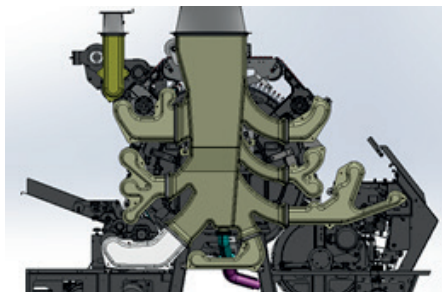
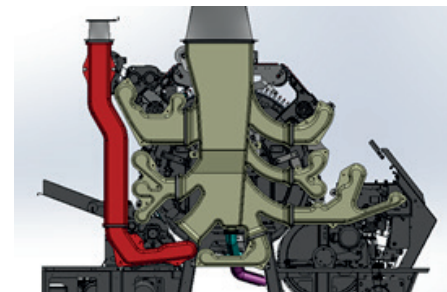


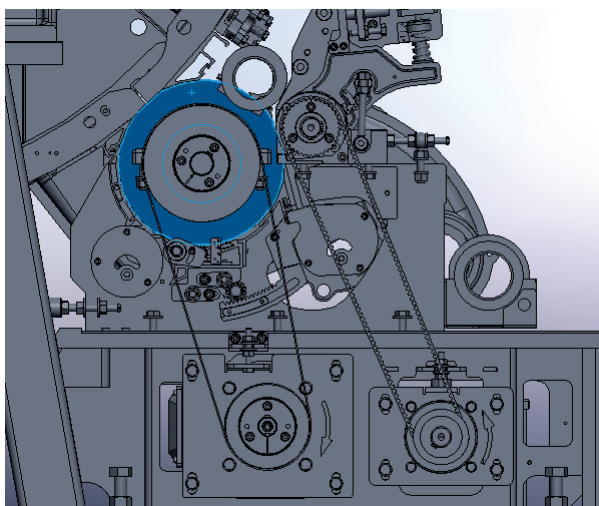
Plate suction



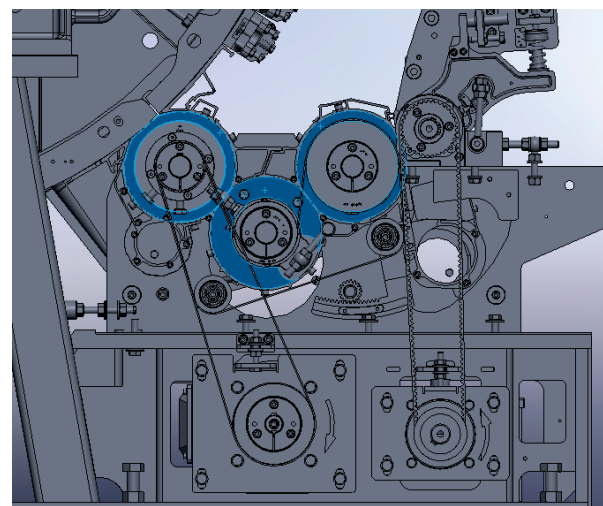
Licker-in suction

Licker-in options

Single licker-in and triple licker-in can be exchanged for processing different fibres.



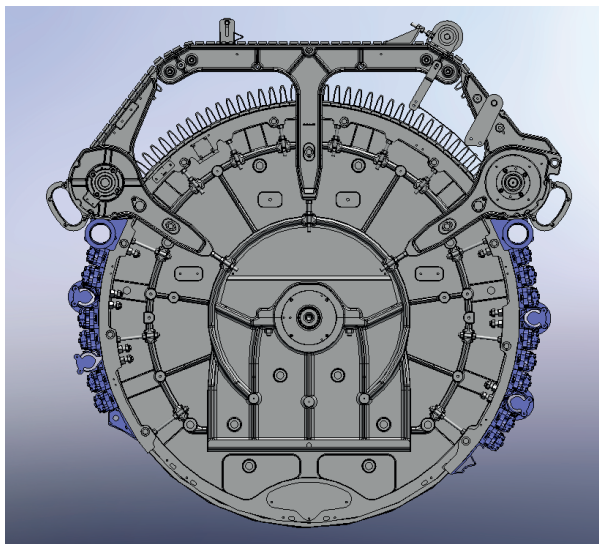
Single licker-in



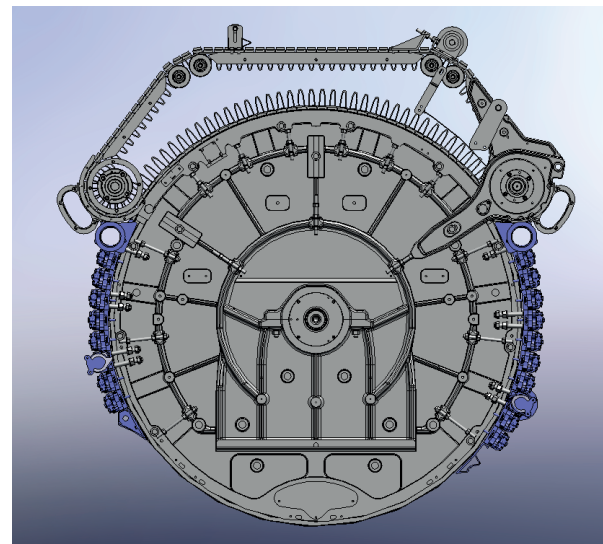
Triple licker-in

Stationary plate options

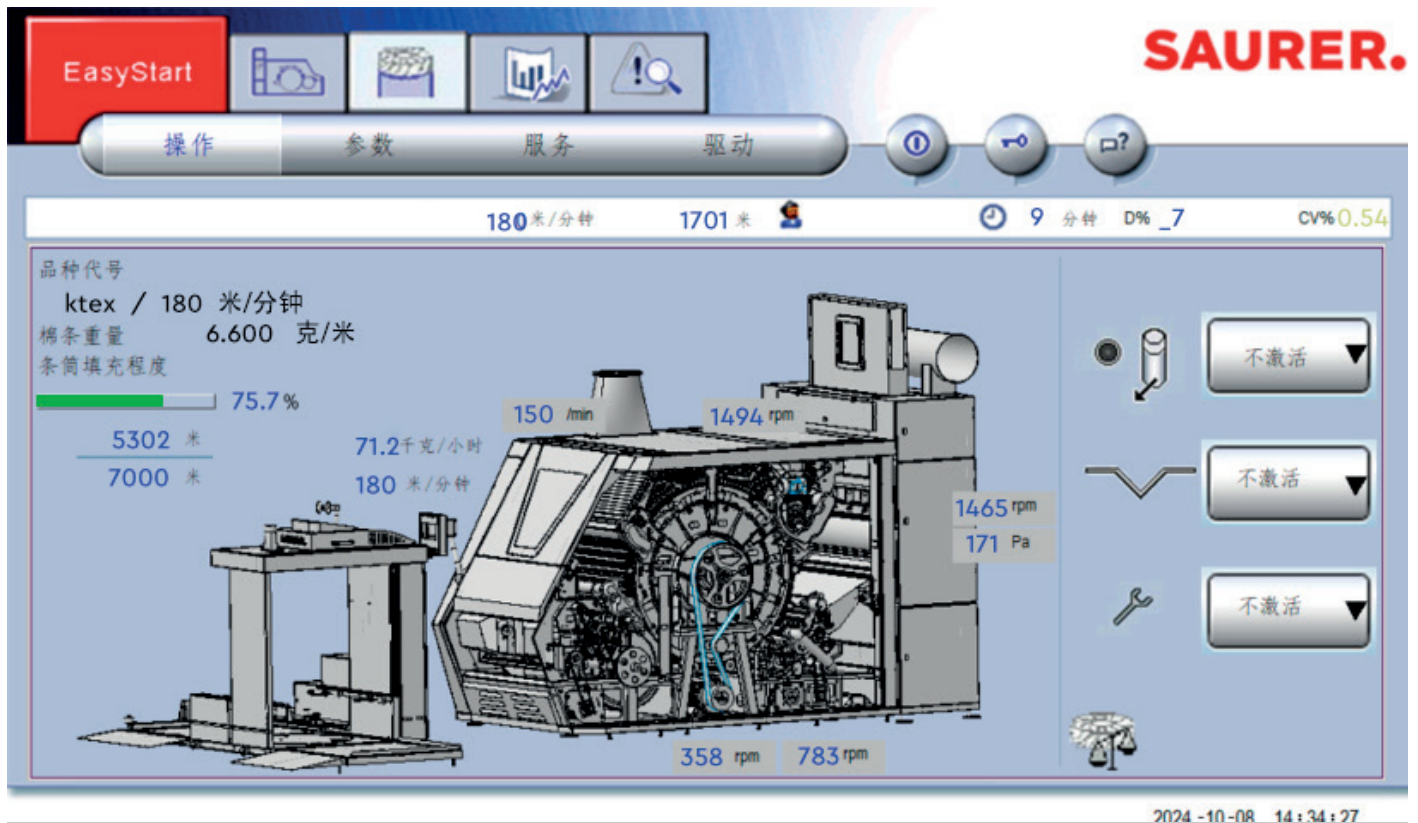
For cotton carding, 12 front and 16 rear stationary plates are standard. The number of front and rear stationary plates can be flexibly configured according to the opening and carding requirements of polyester and man-made fibres.



Stationary plates: 12 front, 16 rear
Fibre web cleaner: 3 front, 3 rear



Stationary plate: 14 front, 18 rear
Fibre web cleaner: 2 front, 2 rear



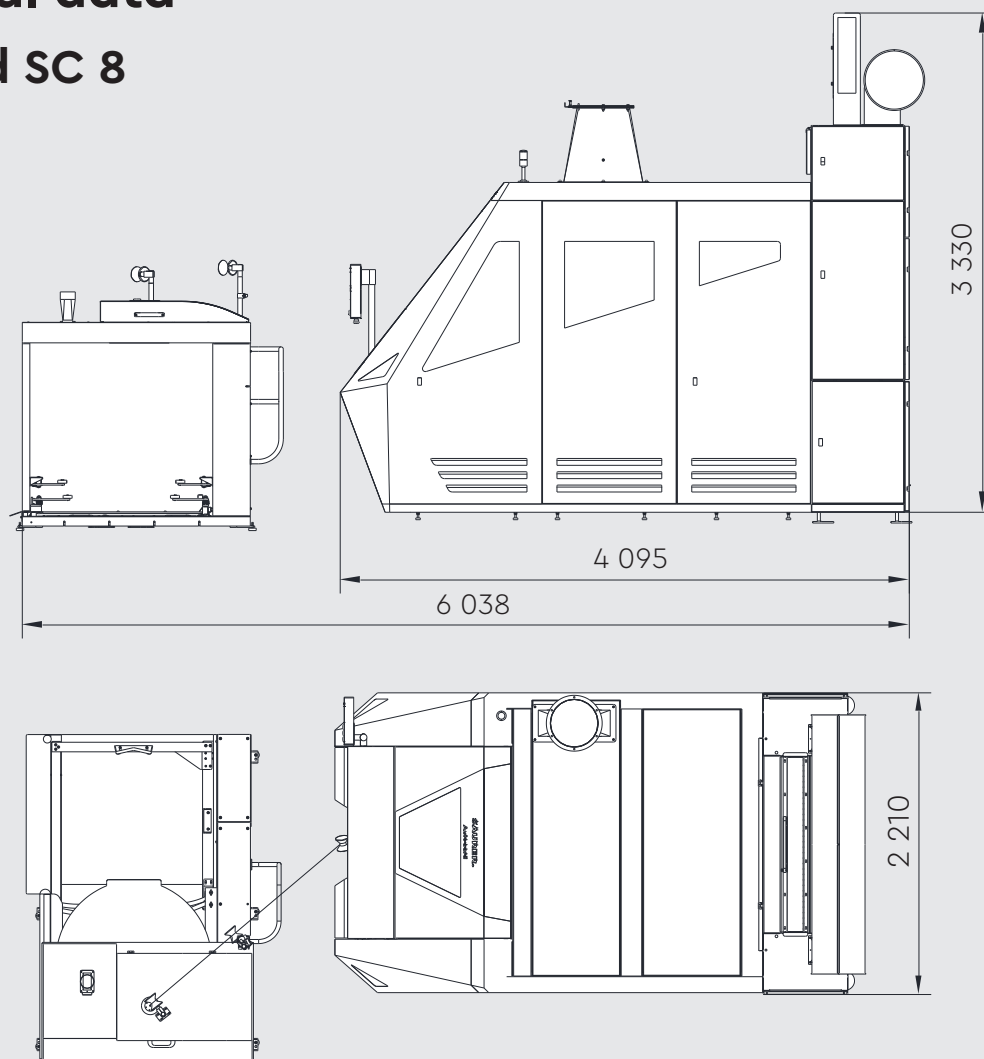
Userfriendly human-machine interface

This interface called Easyspin allows easy setting of multiple process parameters and offers hierarchical rights management to protect settings. Easyspin displays various process parameters and is equipped with a Predata network module for remote operation and technical support.



Technical data

Autocard SC 8



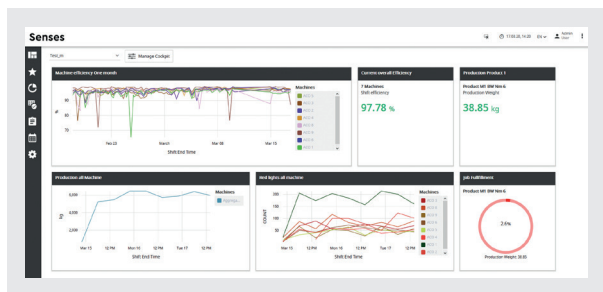
No	Item	Specifications	Remark
1	Operation direction	Right hand	Facing the exit direction, the main transmission is on the right side
2	Cylinder width(mm)	1 380	
3	Workable fibre	Cotton and man-made fibres	
4	Fibre length(mm)	22~76	
5	Linear weight of card sliver(g/m)	3.5~9	
6	Total drafting ratio	70~130	From feeding roller to stripping roller
7	Max. delivery speed(m/min)	480	
8	Sliver speed(m/min)	15~25	
9	Lap width(mm)	1 300	
10	Beater diameter(mm)	300	
11	Beater speed(rpm)	777,1 435	
12	Licker-in diameter single licker-in(mm)	250	
13	Licker-in revolution single licker-in(rpm)	900 (50Hz)	Variable frequency regulation, speed set directly on the screen
14	Licker-in diameter triple licker-in(mm)	172.5	
15	*First licker-in triple licker-in(rpm)	1 190 (50Hz)	Variable speed regulation, adjustable from HMI
16	*Second licker-in triple licker-in(rpm)	1 854 (50Hz)	Variable speed regulation, adjustable from HMI
17	*Third licker-in triple licker-in(rpm)	2 447 (50Hz)	Variable speed regulation, adjustable from HMI
18	Cylinder diameter(mm)	1 460	
19	Cylinder speed(rpm)	250~600	Variable speed regulation, adjustable from HMI
20	Doffer diameter(mm)	700	
21	Doffer speed(rpm)	Max.200	
22	Q'ty of revolving flats / working flats	112/42	
23	Revolving flats speed(mm/min)	5.2f	F is frequency converter
24	Coiler specification(mm)	Diameter (Φ400,Φ450,Φ600, Φ900,Φ1 000,Φ1 200) Height (900,1 000,1 050,1 100,1 150, 1 200,1 250,1 300,1 400,1 500)	
25	Waste extraction air (m ³ /h/Pa)	4 800/-800	
26	Installed power(kW)	31.15	
27	Air consumption(NL/h)	1 000	
28	Net weight(kg)	About 7 500	

*This is only applicable to carding machines with three licker-ins

Senses – Sensibly connected.

Visualise your Autocard machine data with Senses.

In Senses you can collect, visualise and analyse the machine data of your Autocard and all other Saurer machines.



Data transparency in pre-spinning

Senses makes the machine data of your Autocard machines transparent. With the help of the individually configurable cockpit, you always have all the data relevant to you in view.

Find out more about Senses.



Simple, fast and secure recipe management*

With Senses, you can easily distribute recipes digitally to your machines. This reduces the setting time at the machine as well as the risk of incorrect entries. In addition, you have an overview of all your machine settings at all times, you can identify deviations and correct them in Senses if necessary.

Find out more about Senses Element Recipe.



Increasing efficiency with off-standard

The off-standard analysis makes it quick and easy to see which cards are not running optimally and you can react accordingly. This increases the productivity of your Autocard machines on the one hand and the sliver of the yarn you produce on the other.

Find out more about our Off-Standard View.



* Some functions are option-dependent

Sun – Service Unlimited.

Keep your pre-spinning competitive with our Life Cycle Partnership.

We offer innovative solutions and services to ensure product quality, machine performance and profitability throughout the machine life cycle. Original parts ensure the full potential of your machine. Tested and proven for decades in spinning mills worldwide.



Updates and Upgrades

Let us increase your productivity and improve the performance of your mill. Keep your machines up to date with our modifications, retrofits and software updates.

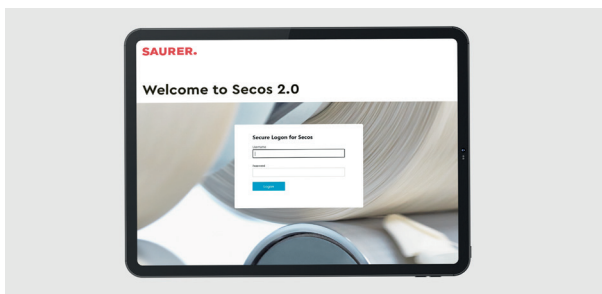
Find out about our latest updates & upgrades for your installed machine base.



Preventive maintenance

Preventive maintenance ensures reliable production: you can avoid unplanned machine downtime and keep your mill running at a high level of efficiency.

Find out more about our preventive services for your installed machine base.



Secos – more than just your e-shop

In Secos you can order your original parts online and find all your machine documentation.

Find out more about our Secos e-shop & register now.
secos.saurer.com



Saurer Academy

Learn anywhere, any time with the online media library and book online seminars, presence training at Saurer or your own mill through the Saurer Academy.

Find out more about our Saurer Academy & register now.
academy.saurer.com



Saurer (Changzhou) Textile Machinery Co., Ltd.
558 Huixian Road, Jintan District,
Jiangsu Province
P.R.China 213200
T +86 519 82314836
info.service@saurer.com
saurer.com



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



Regarding this brochure

Research and development never stand still. This may mean that some statements about the Autocard SC 8 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.