

**SAURER.**



**Be flexible.**

**Bobbin transport systems**





**Zinser Systems offer a wide range of specialised ring-spinning solutions from bale to package. Starting from the blow room and carding, Zinser Systems is designed to ensure the excellent processing of fibres. Efficient roving bobbin transport systems combined with intelligent ring-spinning machinery guarantee high yarn quality.**



**Saurer already has 30 years of experience in planning and installation of roving bobbin transport systems. The company has successfully implemented more than 250 systems worldwide.**

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## Highlights

- **More efficient production**
- **Individual transport solutions**
- **Different levels of automation**
- **Intelligent process flows between roving frame and ring-spinning machine**
- **Optimised material flow**
- **Higher quality of yarn**
- **Lighter workload and reduced personnel requirements**
- **Everything from a single source for individual support and service**



## The shortest track to success.

**Autoflow systems – Saurer roving bobbin transport systems are an innovative solution for transporting your roving bobbins from the roving frame to the ring-spinning machine. For the ideal use of your production, Autoflow supplies via a rail system and protects your roving. Autoflow offers the best solution for your spinning plant through various system and automation steps.**

### **Made-to-measure automation solutions**

Exploit the full potential of your spinning plant. Every spinning mill is unique, and every spinning mill has its own way to success. We support you with customised automation solutions for your processes.

The Autoflow rails allow the roving bobbins to be transported interruption-free. Autoflow makes your production successful through the intelligent control, low-maintenance and well thought-out components, and your downtimes are reduced significantly.



## Systematic logistics optimisation

### Successful production

With Saurer Autoflow, you can design your processes – from roving frame to ring-spinning machine – to be the fastest and the most intelligent. Your work sequences will be quicker, more reliable and more straightforward, which will result in more output.

You will be less dependent on personnel input, human sources of error are eliminated and yarn quality increases.

### Ideally equipped with tailor-made developments

From the roving frame to the ring-spinning machine, the right material flow logistics solutions function so effectively because we always keep sight of the overall process and use proven elements such as the Rowelift automatic transfer station. We provide you with new features and offer special custom technology developments for your requirements, bringing you high quality benefits and cost savings.



## More success automatically

### Exploit the full potential of your spinning mill

Saurer Autoflow systems offer significant time savings and reduce personnel costs. Free yourself of unproductive maintenance and handling times and avoid impaired quality due to manual errors. For the most efficient production system you've ever had.

### Transport reliability: don't settle for second best

Saurer Autoflow is an extremely reliable system in the market.

### Your benefits:

- Self-locking track switches
- Closed track system prevents contamination
- Low rolling resistance of the bobbin trains

## Perfect yarn quality

### Your quality assurance: Autoflow

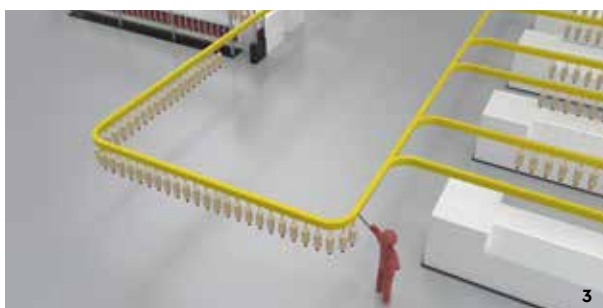
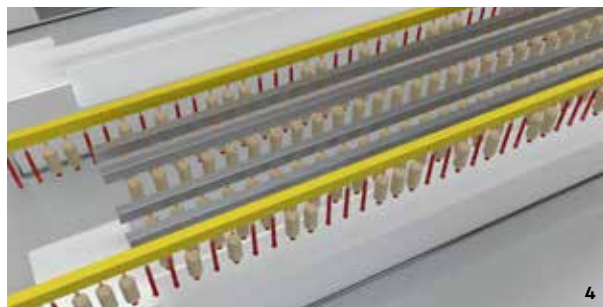
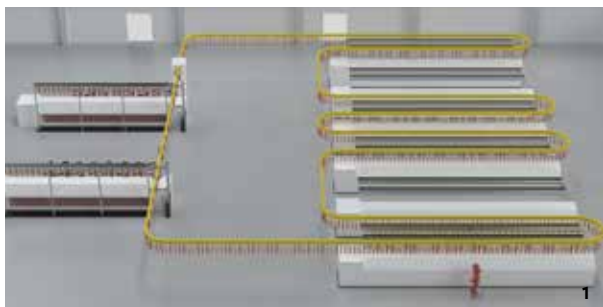
With Saurer Autoflow systems your staff can no longer accidentally damage, soil or mix up the materials. The transport system, which is free of fly contamination, brings the bobbins automatically and reliably to their proper position. For optimal quality yarn – with no material mix-ups.

# Intelligent automation solutions.





- **Finely graduated automation options  
- from manual to fully automatic**
- **Custom process-based adaptation of  
Autoflow systems with Fixflow and  
Flexflow**
- **Creel automation in various levels of  
automation from Cimtrack 1 to  
Cimtrack 5**
- **Innovative automation expansions**
- **Intelligent material flow management**



## The choice is yours

### Autoflow systems are divided into:

#### Fixflow

The securely connected circuit between roving frames and ring-spinning machines moves constantly. Fixflow is best suited to constant production with few or no article changes during maximum production.

Fixflow offers a clear layout with optimum use of space as well as an easy-to-operate control system. Different articles and lots are recognisable for the user with tube colours, they only insert the roving bobbin into the ring-spinning creel. A well organised process.

#### Your benefits:

- Space-saving, dynamic buffers directly at the ring-spinning machine
- Clear assignment of lot and articles, preventing confusion
- Roving bobbins are removed from the continuous circuit

#### Flexflow

Flexflow offers the maximum flexibility for a modern spinning plant. It is best suited to frequent lot changing and flexible production plans.

Flexflow ensures smooth bobbin transfer and maximum use of your production capacity. Each roving frame can supply each ring-spinning machine, different lots can be moved at the same time. With flexible integration, you have an infinite number of possibilities. Roving bobbins and tubes move exactly to where they are needed.

#### Your benefits:

- Intelligent control assigns ring-spinning machines to article
- Programmable automatic lot changing
- System can be retrofitted and expanded
- Partial automation is possible at any time

1 Fixflow  
2 Flexflow  
3 Flexflow manually operated

4 Cimtrack 1  
5 Cimtrack 3  
6 Cimtrack 4



### Highly individualised planning

From the economic solution with manual transport of the trolley trains through to the fully automated spinning mill with tube colour detection and all specialties such as Cimtrack creel automation – no requirement is too small or too big for us. We would be pleased to configure the best-fitting solution for you.

Autoflow easily and elegantly fits with your architecture. Curves, heights, multi-level solutions – none of these are a problem for our expandable track system of high-grade aluminium.

### Cimtrack – creel automation tailored to your requirements

Autoflow offers Cimtrack 1 to Cimtrack 5 – including innovative automation enhancements.

### Creel automation starts with Cimtrack 1

The roving bobbins are directly transported to the reserve row of the ring-spinning machine. The bobbin change and piecing remain the responsibility of the operator.

Cimtrack 1 is possible with Fixflow and Flexflow.

### Creel automation complete with Cimtrack 3/4/5

With full creel automation all rows of the ring-spinning machine creel are designed as transport rails where trolley trains can drive. One track at each machine side serves for storage purposes.

If one row runs out of material, the next one automatically takes over.

Your operating staff only pieces up the roving ends to the waiting full bobbins.



1



2

## Maximum productivity with clever technology

### One-to-one transfer with fully automatic Rowelift transfer station

Put an end to mix-ups and damage to materials. Rowelift provides contactless and fully automatic transfer of the roving bobbins from the roving frame to bobbin transport system. The Rowelift transfers tubes and bobbins one-to-one and in record time.

### Tube magazine for automatic tube change

Automatic tube magazine with a large capacity so that automatic roving bobbin change is never interrupted. The automatic tube magazine ensures the orderly operation of the roving frame and prevents stoppage and alarms from going off.

#### Your benefits:

- Automatic colour recognition without manual input of colour code
- Avoidance of colour mixing
- 100% clean state of roving tubes

### Roweclean and SRC 1 – Cleaner: automatic tube cleaning tailored to your needs

Choose between the Roweclean tube cleaner, which stands directly at each roving frame, or the SRC 1 – Cleaner as a "stand-alone" module with up to 12 cleaning units integrated in the Flexflow transport system. The roving is removed and gently opened by airflow so that roving remnants can be re-used, as they are "unmixed".

#### Your benefits:

- High success rate of up to 98%
- Perfect adaptation to different spinning raw materials
- Easy adjustment of cleaning parameters
- Optimised control of the cleaning time
- Fibre recycling



## Intelligent material flow management

### Spinning plant logistics made easy

Your material flow management becomes wonderfully simple with our intelligent article management, material and fill level information, user-friendly screen or via remote control from any mobile device. Benefit from our logistics software! And if you have urgent questions, our can remote service provides rapid assistance.

### Saurer Autoflow: quicker lot changes for increased output

Controlled lot startup and completion saves you time and resources. Bobbins that are running out can, if necessary, be moved to the neighbouring ring-spinning machine. That's Saurer Autoflow – maximum capacity utilisation combined with ultimate flexibility.

### Your benefits:

- Fully automated movement commands by central control system
- Multiple materials/roving counts can be assigned to certain tube colours by using article numbers
- No material mix-up
- Clearly structured material flow
- Driving jobs are controlled in the whole system
- Realisation of "first in, first out" principle
- Train movement strategy tailored to your requirements

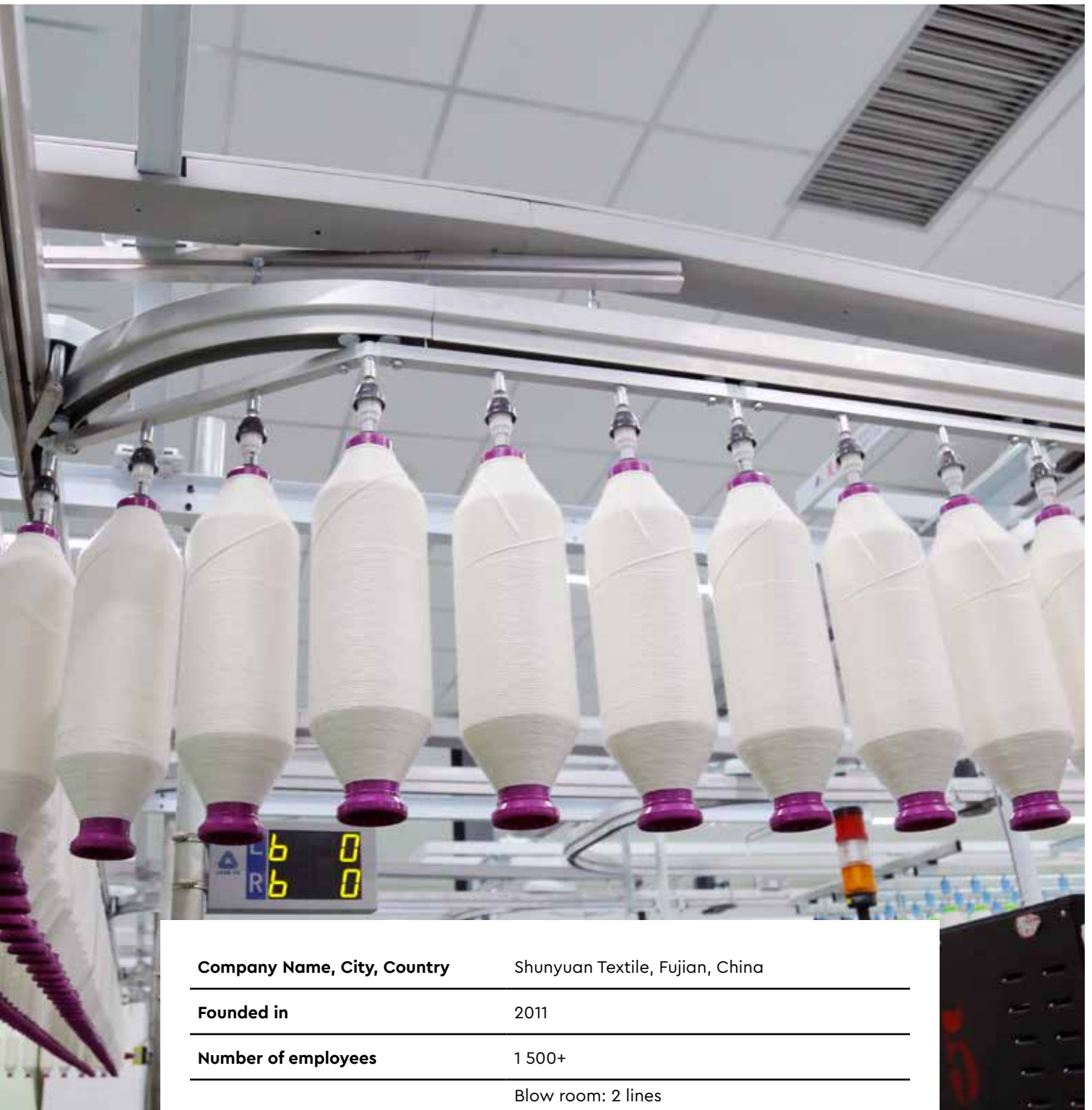
# Value added for Shunyuan Textile



Zunrong Zheng,  
General Manager Shunyuan Textile,  
China

**During the epidemic in 2020, we purchased the Saurer ring-spinning machinery including the bobbin transport systems. Thanks to the excellent machine performance and stability, we were able to resume a normal production before the market recovered.**





<b>Company Name, City, Country</b>	Shunyuan Textile, Fujian, China
<b>Founded in</b>	2011
<b>Number of employees</b>	1 500+
<b>Number and type of machines/ Number of spindles</b>	Blow room: 2 lines JSC 326 carding machine: 24 machines Autospeed: 9 machines/1 440 spindles Roving bobbin transport system: Flexflow ZinserImpact 72: 36 machines/53 568 spindles Winding machine: 36 machines/1 584 spindles
<b>Production</b>	22 tonnes of cotton compact yarn per day, Ne 32 to Ne 42
<b>Final product</b>	Ring and compact yarns for knitting garments
<b>Website</b>	<a href="http://old.fjsyfz.com/index.html">http://old.fjsyfz.com/index.html</a>

# Bakan Tex's success with automation



Bozir Mukitdinov,  
General Direktor Bakan Tex,  
Uzbekistan

**Our recipe for success consists of modern automation and strict quality management. With its powerful machines and its comprehensive automation expertise Saurer is an in-demand partner for the implementation of investment projects for the production of quality yarns.**

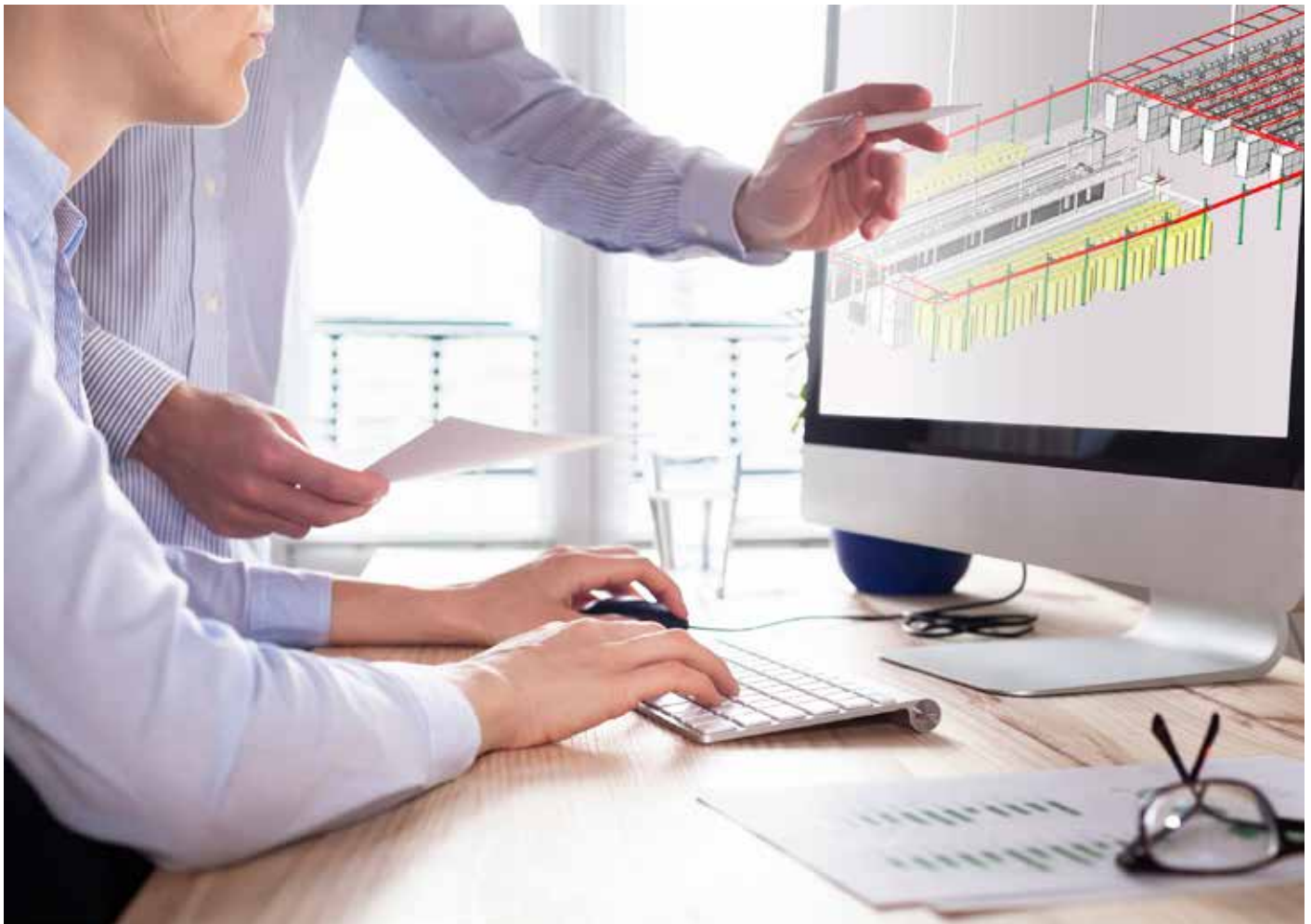




<b>Company Name, City, Country</b>	Bakan Textile, Tashkent, Uzbekistan
<b>Founded in</b>	2017
<b>Number of employees</b>	450
<b>Number and type of machines/ Number of spindles</b>	Autospeed: 12 machines/1 920 spindles Roving bobbin transport system: Fixflow ZinserImpact 72: 33 machines/63 360 spindles Winding machine: 33 machines/1 452 spindles
<b>Production</b>	41 tonnes of cotton compact yarn per day, Ne 30 to Ne 40
<b>Final product</b>	Ring and compact yarns for knitting garments
<b>Website</b>	<a href="http://www.bakantex.com">www.bakantex.com</a>



Discover  
more



## Complete spinning systems

### Engineering – tailor-made solutions

A competent team of Saurer engineers develops individual solutions of spinning mill automation. The focus is always on the respective requirements of our customers and their markets. With coherent overall concepts that meet all requirements for process optimisation and increased efficiency, Saurer ensures the future-proof competitive advantage of its customers' spinning mill.

### Our engineering team can support you with:

- Meeting requirements of management
- Concept and layout
- Schedule and project management
- Installation and commissioning
- Employee training
- Product and process optimisation
- Maintenance and repair
- Updates and Upgrades

## Senses – the new mill management system

### For maximum added value and profitability

Senses is the new Saurer mill management system for the entire textile value-added chain. The information system collects, bundles and visualises the production, quality and machine data of your entire spinning mill. The application delivers valid information to management and the machine operators in order to profitably optimise the use of raw materials, material, time, personnel, energy and capital. Senses is therefore the ultimate addition to your Saurer machinery. The application runs on all smart devices, adapts to your demands and can be upgraded to new Senses Elements at any time in the Saurer Software Shop. Use your new digital senses and sustainably optimise the profitability of your textile business through real-time information and big-data mining.

## 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.**

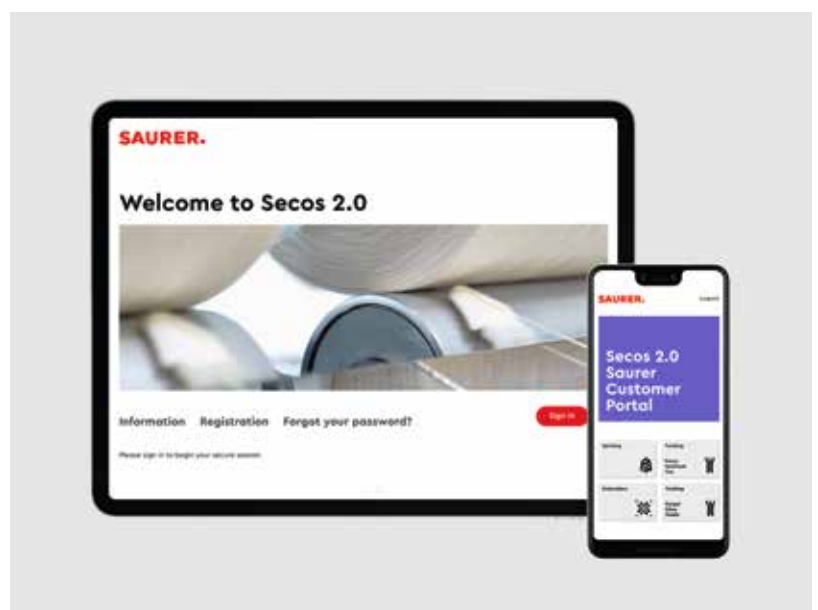
**We keep you competitive.**

## Secos

### Saurer Customer Portal

The modular Secos 2.0 customer portal packages all important information about the customer's machine park as well as the services available.

- 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



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



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