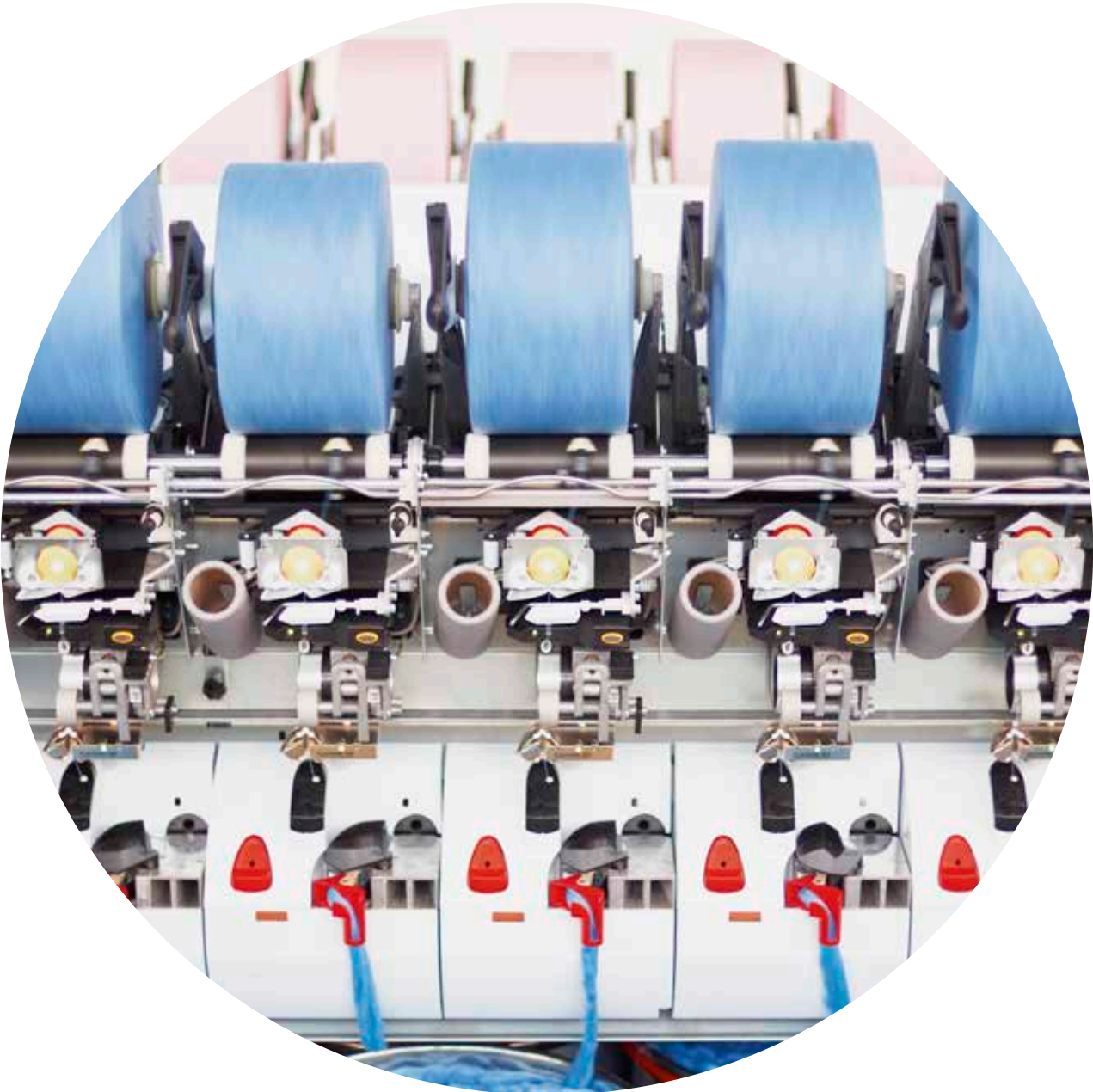



**SAURER.**




**Think economically.**

**BD 8**





**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 right solution for you.**



**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, E<sup>3</sup>, optimizes energy, economics and ergonomics of every new machine generation with added intelligence. Anticipating the need for circular economy, all of our spinning machines are already optimised to process recycled or regenerated fibre materials.**

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# 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.**



## **E<sup>3</sup>: our development philosophy**

The needs of our customers are our top priority. With every new or further development, we pay attention to reducing energy consumption, increasing efficiency and improving ergonomics. The E<sup>3</sup> philosophy underlies all our designs and our smart solutions provide added value to customers.

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

## Energy

Less energy

- Minimum energy costs thanks to Twinsuction
- Energy saving drives and optimised control system
- Maximum cost transparency thanks to Energy Monitoring

## Economics

Maximum productivity

- Long machines with 600 spindle positions
- Premium package quality
- Take-up speeds up to 230 m/min
- More productivity per square metre
- Efficient waste separation thanks to three-chamber filter system

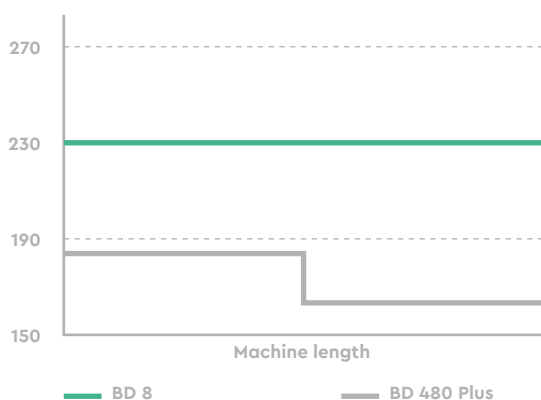
## Ergonomics

Reduced workload

- Automatic package doffing units
- Automatic waste removal
- Automatic machine start with DigiJSI
- Low operation height
- Digitally controlled efficiency visualisation

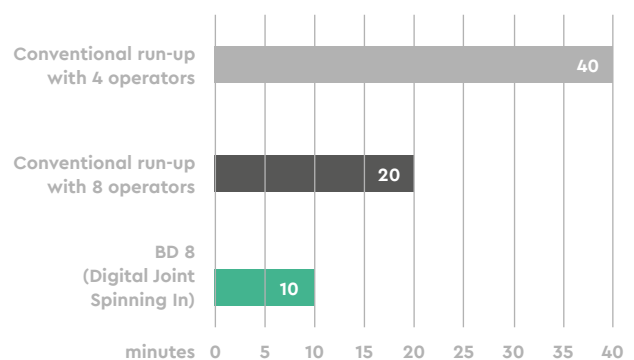
### Up to 40% higher take-up speed

Take-up speed m/min



### Full production in just a few minutes

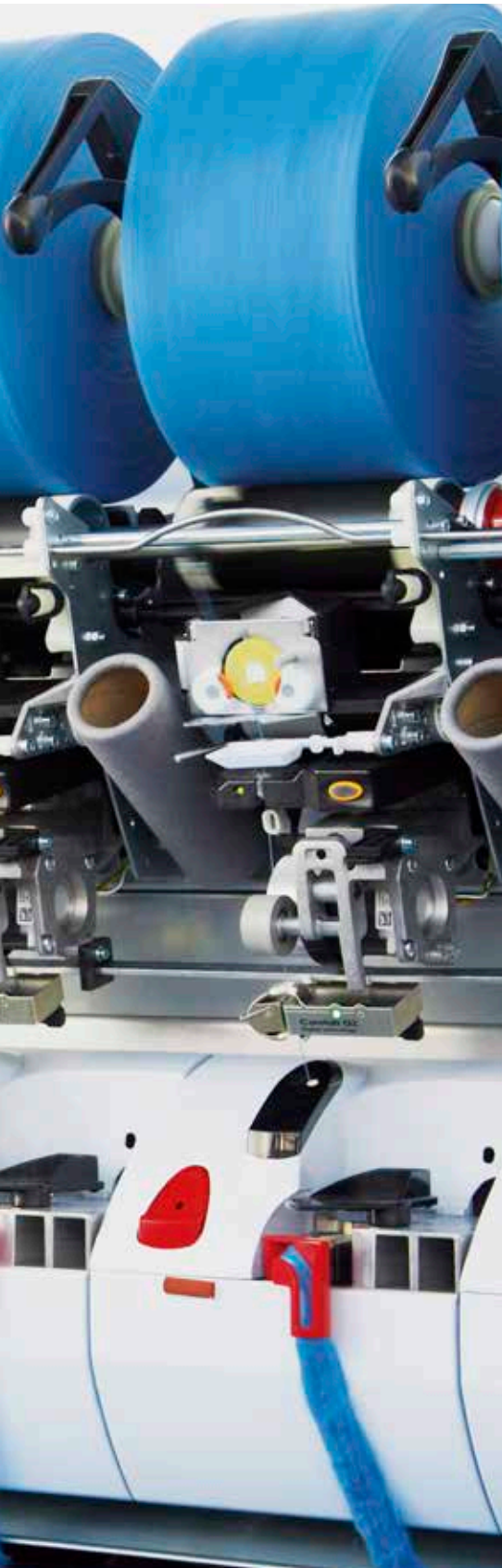
Run-up time for 600 positions



# Your package for your

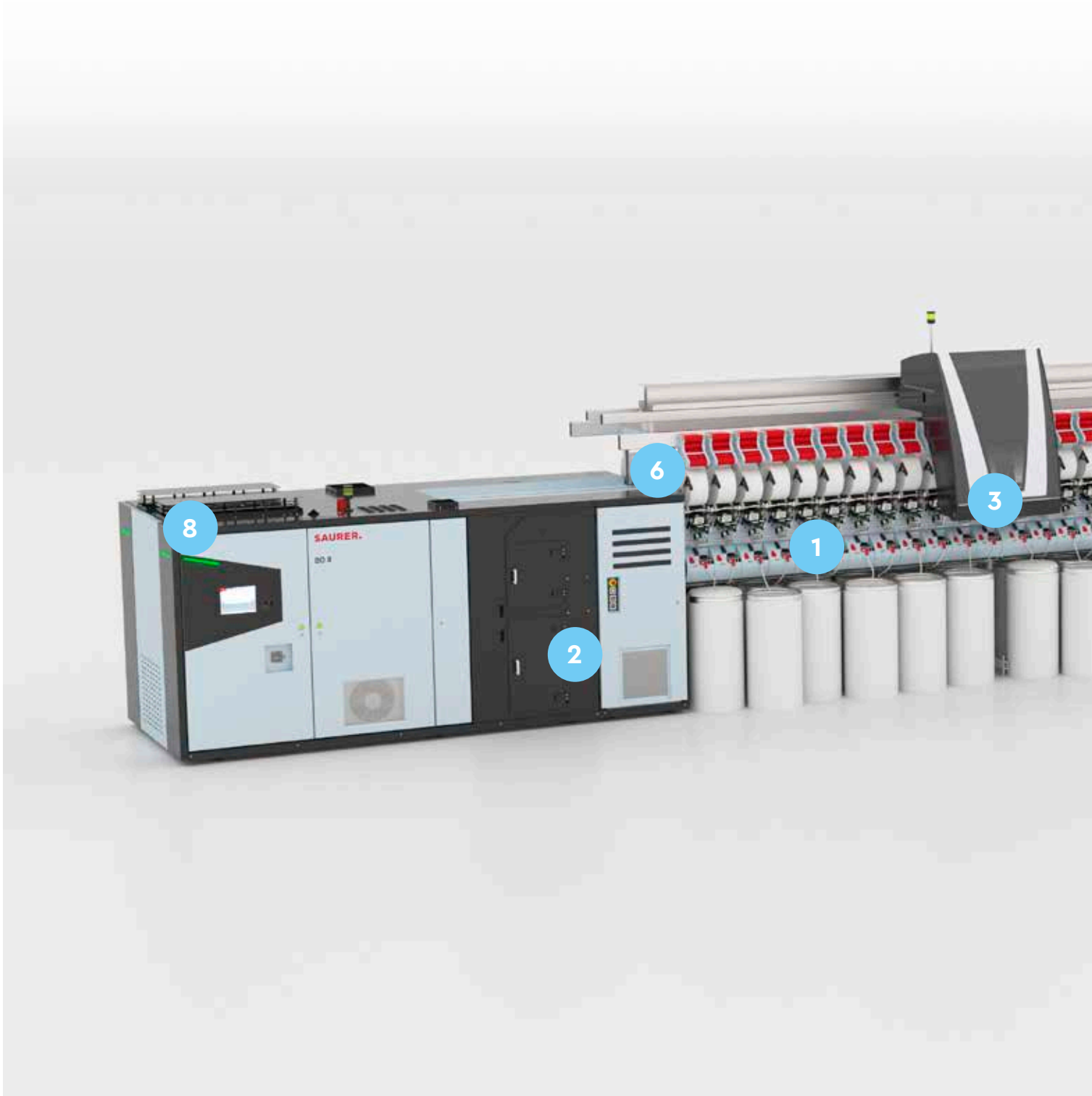


# Success.

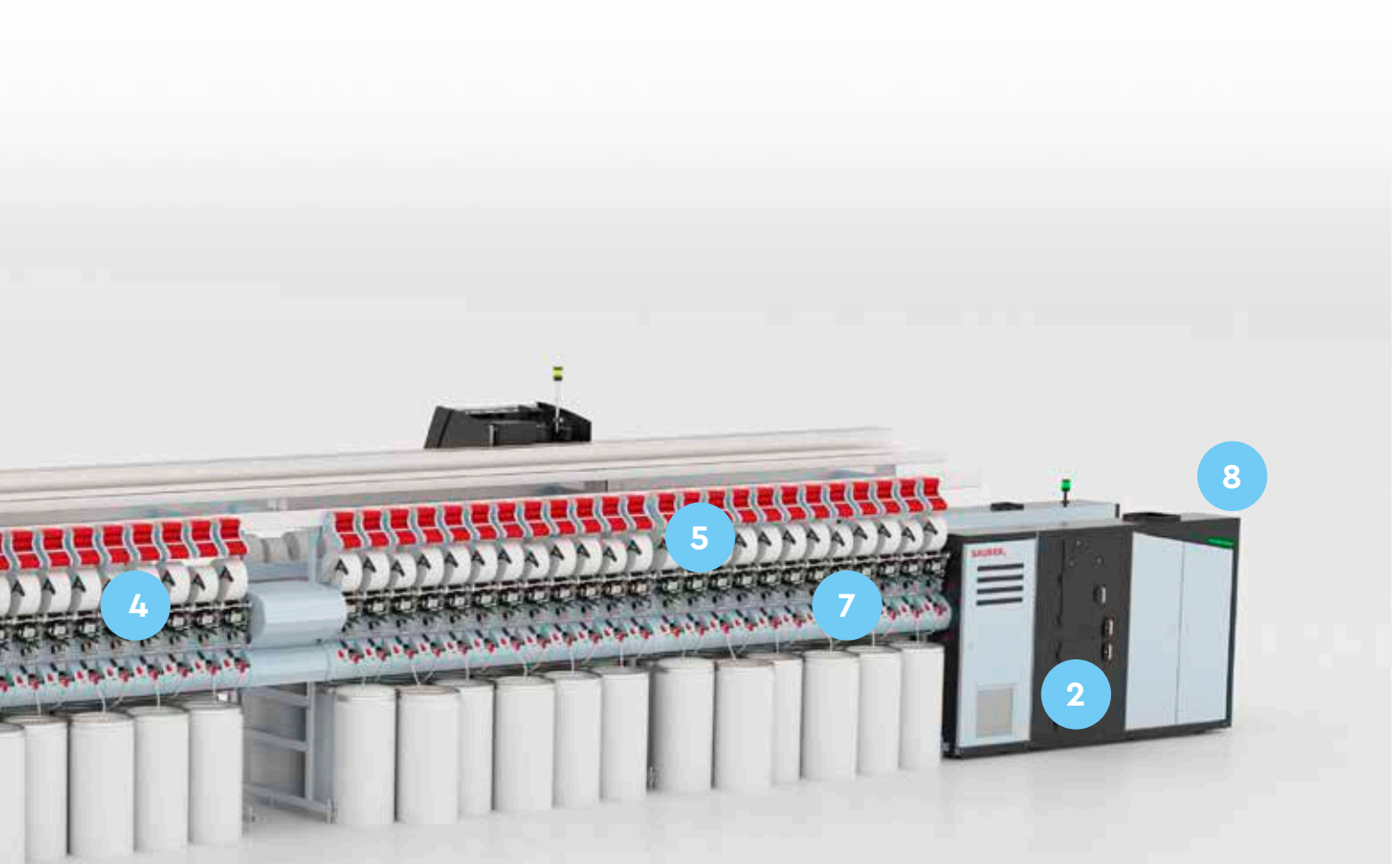


- Resource-saving spinning with less energy consumption
- Maximum productivity for highest profit
- Automatic doffing units (DU) for higher efficient and lower personnel requirements
- Time- and labour-saving machine operation, for easy working
- Highest flexibility for entirely new sales market
- Autocoro package and piecing quality with excellent unwinding properties in downstream process

## BD 8 – powered by Autocoro technology.








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**1 Highest piecing quality with Digipiecing**

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**2 Energy-saving with Twinsuction**

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**3 More efficiency with new doffing unit (DU)**

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**4 Proven Digital Joint Spinning In (DigiJSI) technology for faster runs up**

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**5 Big package 320 mm and 5 kg with premium package**

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**6 More flexibility with Multilot and Pilotgroup**

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**7 Highest production speed up to 230 m/min**

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**8 Best operator guidance with the light concept**

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## Think economically

New challenges in the textile markets demand individual solutions. Discover the new BD 8 with a focus on economical efficiency.

Choose between the BD 8 Standard and the energy-saving model BD 8 with Twinsuction. Benefit from more than 50 years of experience as a technology leader in semi-automatic rotor spinning.

Create high-quality yarns with a focus on flexibility, ergonomic design, and sustainability. The new BD 8 is the benchmark for sustainable spinning in semi-automatic rotor spinning – powered by Autocoro technologies.

### **Pioneer for recycling and waste spinning**

More than 3 million BD spinning positions sold globally prove that BD technology from Saurer secures a superior position in the textile industry. The widely recognised BD technology for nearly half century guarantees a longer machine life and higher stability, which has proven itself to meet the Saurer quality standard. Use our many years of experience with the BD line in the field of recycling and waste spinning for your business.



## Think sustainable

### Maximum energy saving with Twinsuction

Save energy with the new Twinsuction on both sides compared to the competition. Produce in a permanently energy-saving way and benefit from higher quality stability across all spinning positions.

### Energy Monitoring

The Energy Monitoring system monitors the energy consumption online. You see the current energy consumption per lot per kilogram of yarn. Or you can analyse the stored consumption data and organise your production to save even more energy.

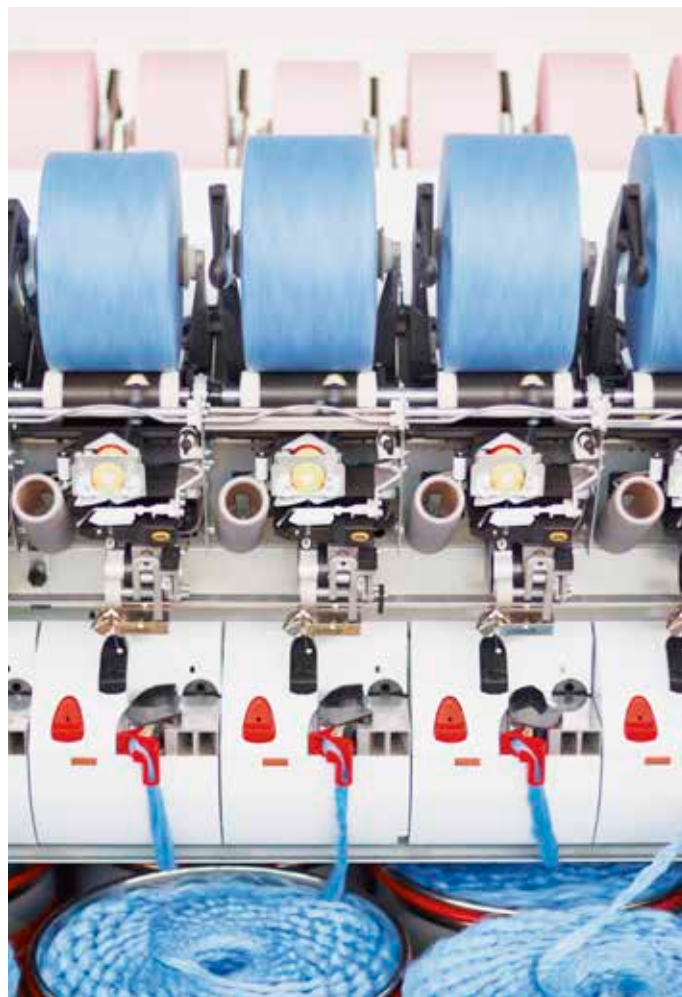
### Sustainable waste separation

With the three-chamber-filter system you are able to separate the waste in an efficient way. Good fibres, yarn and impurities are individually collected. Ideal for further processing.

Group	Obj.	Efficiency	Packages	Clearer cut*	Yarn breaks*	Red lights*	Power consumption
1	✓	88.4%	27 / 180	234	126	2.3	1.24 kWh/kg
2	✓	88.5%	129 / 530	288	101	0.4	0.93 kWh/kg
3	⊖	0.0%	0 / 0	0	0	0.0	0.00 kWh/kg
4	⊖	0.0%	0 / 0	0	0	0.0	0.00 kWh/kg
5	⊖	0.0%	0 / 0	0	0	0.0	0.00 kWh/kg
6	⊖	0.0%	0 / 0	0	0	0.0	0.00 kWh/kg

Lot name: Cotton  
Lot no.: 3045  
Yarn count: 30.0 Tex  
Working range: 1 - 144  
State: Production

\* per 1000 Pn  
Spinning positions: 40  
CURRENT SHIFT: Production



## Increased productivity

### **New: doffing unit (DU)**

The new BD 8 with up to four doffing units ensures high efficiency and lower personnel requirements. The full packages can be changed automatically with no interruption to the spinning process. The BD 8 ensures high efficiency with coarse yarns with short production intervals, even if they are produced on long machines. Your operators are unburdened and available for new tasks.

### **New: semi-automatic package remover**

The package remover automatically lifts the finished packages from the winding unit and transports them onto the package removal conveyor belt. Doffing cycle less than 6 seconds. Fewer workers are required, profitability increases.

### **High-speed packages with Autocoro quality**

Produce the quality packages of the utmost precision. Only the combination of Digipiecing with the additional drive unit at the centre of the machine offers you a take-up speed of up to 230 m/min for all machine lengths – whether producing tapered or cylindrical packages. This makes the BD 8 faster than any other semi-automatic rotor spinning machine.

### **Very large packages and yarns up to Ne 1**

The BD 8 is the only semi-automatic rotor spinning machine to produce coarse yarns up to Ne 1 of perfect quality. Large packages of up to 320 mm diameter can be produced.

### **Winding technology for the highest efficiency ratings**

The high-precision winding technology from the Aurocoro offers a performance guarantee on the BD 8 and excels with the top performance in its class.



## Operator convenience

### Operational status visible from a distance with 3-colour LED

Your staff can see the operational status of every single spinning position at a glance. This saves long inspection rounds and minimises staff deployment.

### Even quicker piecing

In the case of a clearer cut or power outage, with the BD 8 in the yarn end on the package remains open and is clearly visible. This saves up to 50% piecing time for the operator and speeds up piecing.



### Reduced handling need

With its lower operating height the BD 8 is now even easier to control. The filter in the waste chambers can be removed, thus making them much more convenient to clean. The spinning components can be exchanged quickly and without tools. With these benefits, you utilise your staff to best effect.



## Piecing reliability

### Record-breaking: Autocoro DigiPiecing technology for premium quality

Each spinning position is equipped with modern digital piecing technology. DigiPiecing has proven itself. It has been in use for over ten years at almost one million spinning positions.

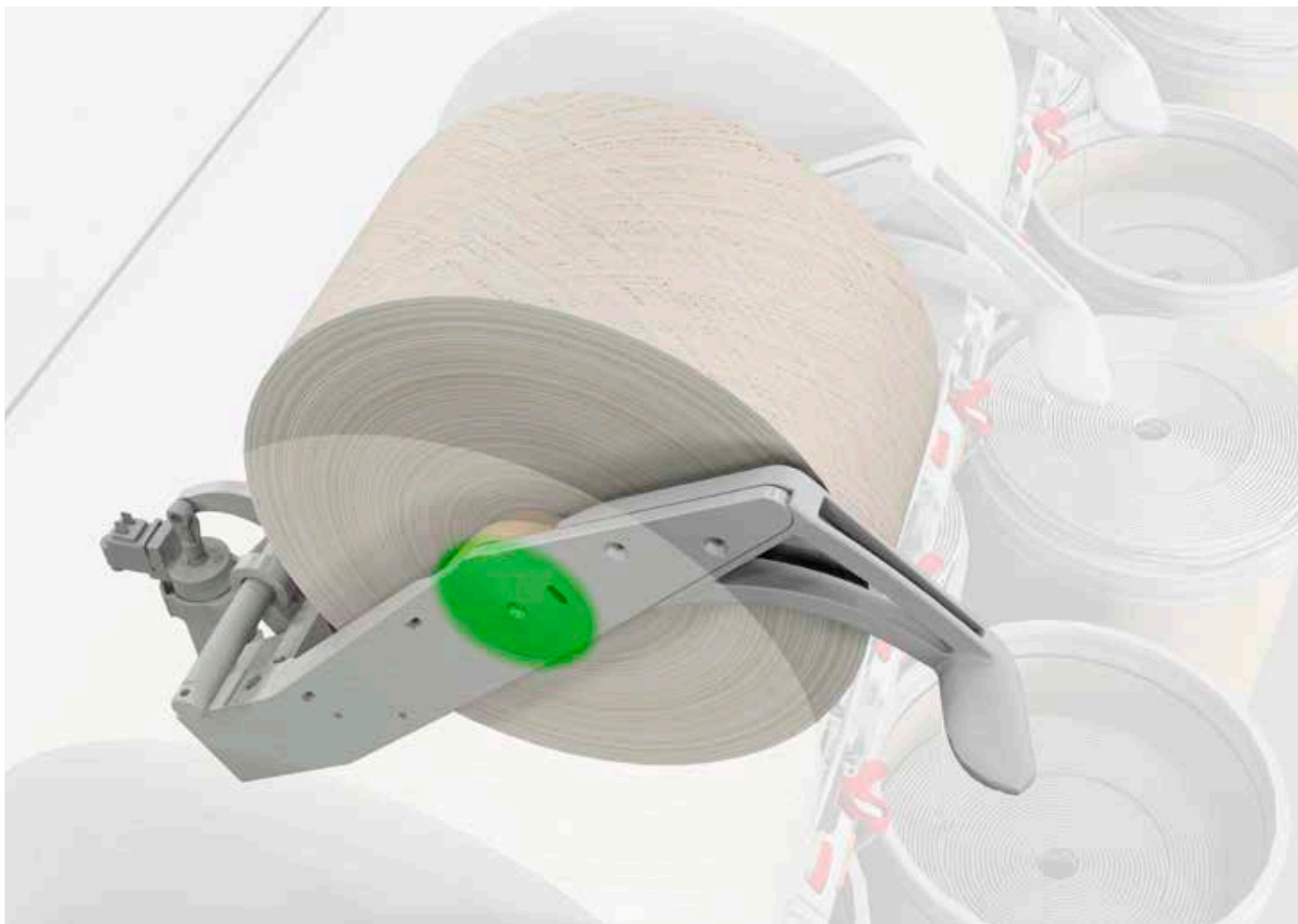
DigiPiecing ensures invisible and reliable yarn connections.

Maximum precision through entirely digital control, from sliver intake to yarn take-off.

Piecing with the maximum success rate for all package diameters: The patented digital drive technology DigiPiecing from Autocoro is your guarantee of success for even greater productivity and piecing reliability in the BD 8.

### New: fully automatic run-up with proven DigiJSI piecing technology

The unique Digital Joint Spinning In (DigiJSI) technology of BD 8 enables a faster run-up of the machine. It offers synchronous piecing at all spinning positions at the press of a button. What this means in practice is, different from others, a complete machine run-up without having to take personnel away from other areas. In addition, the precise digital control system guarantees piecing reliability.



## Premium quality packages

### Ensuring quality

The new BD 8 monitors the quality of packages with digital technologies. The Corolab yarn clearer and the Package Quality Guard only allow perfect yarn to be wound onto the package.

The digital winding unit of the BD 8 produces premium quality packages in an optimised process. They increase the efficiency in subsequent value-added processes and are therefore highly sought-after.

### Digital yarn clearing for best quality

Corolab technologies ensure perfect yarn and piecings on the BD 8. Corolab Q2 guarantees reliable clearing of thick and thin places and unsuitable piecings. It is used worldwide in the processing of recycled fibres and waste. Corolab F2 additionally eliminates foreign fibres from the yarn.

### Patented digital quality monitoring

The digital quality monitoring feature with 3-colour LED on the winding head signals to the operator exactly where the yarn break is located on the package. Therefore, the operator knows how much yarn to remove from the package. The spinning process is only released again once it is ensured that only perfect yarn is wound on.





## Efficiency at maximum level

### New: efficiency visualisation

Memorable light signals efficiently control manual interventions by the workers. Multi-colored LED light bar on all sides of the machine informs the workers about the production status from a long way off. This saves a lot of walking. Workers can intervene faster and in a more targeted manner. Uniform efficiency of the production is ensured.

### User interface

Lot changes are faster thanks to the color display, in addition, spinning processes and machine productivity can be optimised while the machine is running – with three clicks at the user-friendly touchscreen.

### Prompt action

The BD 8 flags errors and required operator interventions by means of highly visible and audible signals. Warning lights, alarm tones and spinning position LED displays show precisely where action needs to be taken.







## Highest flexibility

### **Multilot: flexible lot management**

Highly versatile in operation with optimum machine utilisation: with Multilot you can spin two lots simultaneously on the two sides of the machine. Adapt your working sequences even better to current market demand.

### **Pilotgroup: spinning trials in ongoing operation**

With the Pilotgroup option you can use a group of spinning positions on either machine side for the production of test packages parallel to regular production. The 3-colour LEDs at the spinning positions show the operator precisely which spinning positions are producing in Pilotgroup mode. You can optimise spinning and winding parameters at any time to your advantage.

### **Fancynation: produce the best fancy yarns**

Transform yarn ideas quickly and reliably into finished product! The Fancynation option easily creates the production data from your concept. With the BD 8 you spin high-quality fancy yarns at high take-up speeds on long machines. Ideal for commodity spinning plants that want to develop new markets.



# Technical data

## Semi-automatic rotor spinning machine BD 8

Sectional design with 24 spinning positions per section

Spindle gauge: 230 mm

Spin box NSB 6

Max. number of spinning units: 600

### Spinning cans

not included in Saurer delivery

#### Round cans

Ø 457 mm (17,5"): two rows

Ø 530 mm (20"): three rows

Height 900 mm up to 1200 mm (36" to 48")

#### Rectangular cans

220 mm width x 970 mm depth

Height 900 – 1070 mm

Height when using can supports: 1070 mm (42")

## Technology data

### Raw materials

Natural and manmade fibres and their blends

Fibre length up to 60 mm

### Yarn count range

294 – 15 tex

Nm 3.4 – 68

Ne 2 – 40

### Coarse yarn

588 – 303 tex

Nm 1.7 – 3.3

Ne 1.0 – 1.9

### Sliver count range

8.0 – 2.5 ktex

Nm 0.125 – Nm 0.40

Ne 0.07 – Ne 0.24

### Draft

20 – 450 fold

# Basic equipment and options

## Machine equipment

### Machine performance efficiency visualisation with LED light bar

visualisation of machine efficiency, status waste chambers and package conveyor belt at the machine head and end stock

●

### Package doffing units DU

- Up to 4 doffing units
- Doffing on the fly
- Pneumatic cleaning of the spinning unit and winding head
- Operation with colored touch display
- Automatic cover opening at the touch of a button
- Available for cylindrical packages

○

**Semi-automatic package remover** (automatic opening of cradle arm and package lifting)

○

### Twinsuction unit

○

### IDS Intelligent Drive System:

Piecing parameters, rotor speed, spinning vacuum, trash suction removal system, opening roller speed, yarn twist, draft and take-up speed are infinitely variable

●

**EVA** Electronic Vacuum Adjustment for a constant and electronically **controlled spinning vacuum** 45 to 60 mbar

●

**EVA** Electronic Vacuum Adjustment for a constant and electronically **controlled vacuum in the trash** channel (impurity channel)

●

Interface for **central waste disposal system**

○

Touchscreen input of all parameters on the **Informator**, Data display on screen

●

### USB interface

●

**Fancylation** fancy yarn device

○

**Conveyor belt per machine side** for package removal, with central drive

●

**Conveyor belt per machine side** for package removal, with individual drive

○

**Multilot** processing system for simultaneous production of **up to two lots on one machine**

○

**Pilotgroup:** freely selectable spinning positions for the production of sample and test packages and producing at the same time

○

**Energy Monitoring** on the informator, shows the energy consumption per kg yarn

○

**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

●

**Three-chamber system**, yarn residues, waste and fibres are collected separately

●

Connection to **central transport systems for packages**

○

**Senses** interface

○

● Basic equipment    ○ Option

## Spinning and winding unit

### Spinning unit

Direct mounting of rotors and opening rollers ●

#### Rotors

Available coatings:

- D = diamond coating
- DN = diamond coating and nickel-plated
- BD = boride and diamond coating (3D coating)
- Rotor diameter 32 – 66 mm
- Rotor speeds from 13 000 – 120 000 rpm ●

Rotor diameter for coarse yarns 76 mm ○

#### Opening rollers

various tooth geometries

Available coatings:

- DN = diamond coating and nickel-plated
- NP = special mechanical/chemical treatment and needle polished ●

#### Navels

- Ceramic inserts, smooth, notched, spiral navels
- Steel navels, smooth, notched for coarse yarns ●

#### Cleaning inserts

- Optionally with air pipe wedges for optimisation of air utilisation in the spin box ●

Intake speed 0.04 – 7 m/min single-motor driven and digitally controlled SDSI Single Drive Sliver Intake ●

### Piecing

#### Digital controlled piecing technology Digipiecing

- Patented 100% digitally controlled semi-automatic piecing ●

#### Digital Joint Spinning In (DigjSI)

- Electronically controlled mass piecing, e.g. following a power failure ○

### Yarn quality monitoring

**Corolab Q2** – digital yarn monitoring system for quality control and for clearing thick and thin places

Digital piecing tester at each spinning position ○

**Corolab F2** – 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

**Take-up speed:** up to **200 m/min** for any machine length ●

**High take-up speed:** up to **230 m/min** for any machine length ○

**Multiple colors indicator:** navigation based on colors ●

**Angle of wind:** 28° – 42° infinitely variable ●

#### Yarn guide traverse

- Cylindrical 140 – 155 mm
- Tapered 140 – 150 mm
- The character of the package edges can be influenced by preassigned stroke breathing fields
- Anti-patterning achieved by periodically adjusting the movement of the yarn guide ●

**Package lifting: mechanically** controlled package brake

Gentle package lift-off when package is full and in the event of yarn break ●

**Package lifting: electronically** controlled package brake

Electronically controlled pneumatic package frame lift-off device

Gentle package lift-off when package is full and in the event of yarn break ○

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

**Electronic stop** when the preset **package diameter** is attained ●

**Waxing device** driven by a single motor for wax rolls of up to Ø 38 mm and 45 mm height

A collector prevents any accumulation of wax particles in the spin box area ○

### Package formats

**Cylindrical packages** up to 300 mm in diameter, 4.5 kg weight ●

**Cylindrical packages** (with premium package arm lifting) up to 320 mm in diameter, 5.0 kg weight ○

**Tapered packages** 2° to 280 mm, 4.2 kg weight ○

**Tube dimensions, cylindrical**, smooth/ flanged

- 54 × 170 mm
- 40/50 × 170 mm
- 42/54 × 170 mm ●

**Tube dimensions, tapered** 2°, smooth/ flanged

- 42/65 × 170 mm
- 54/65 × 170 mm ○

### Travelling cleaner

Travelling cleaner for blowing/cleaning the spinning positions and suction of fibre fly ○

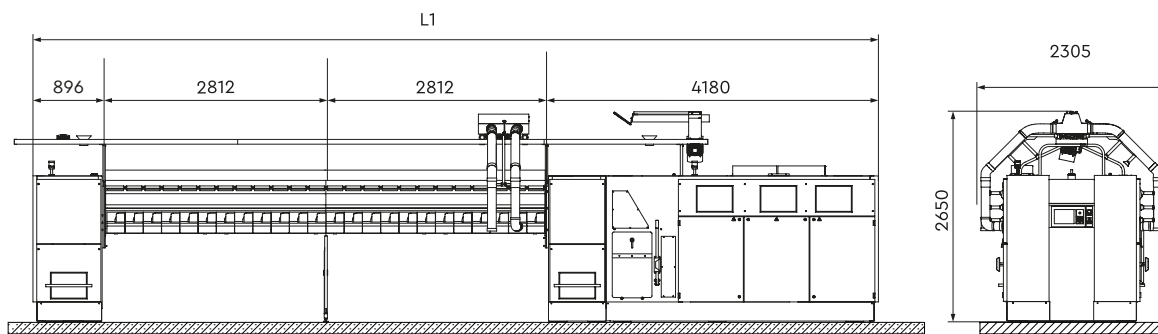
● Basic equipment    ○ Option

# Dimensions

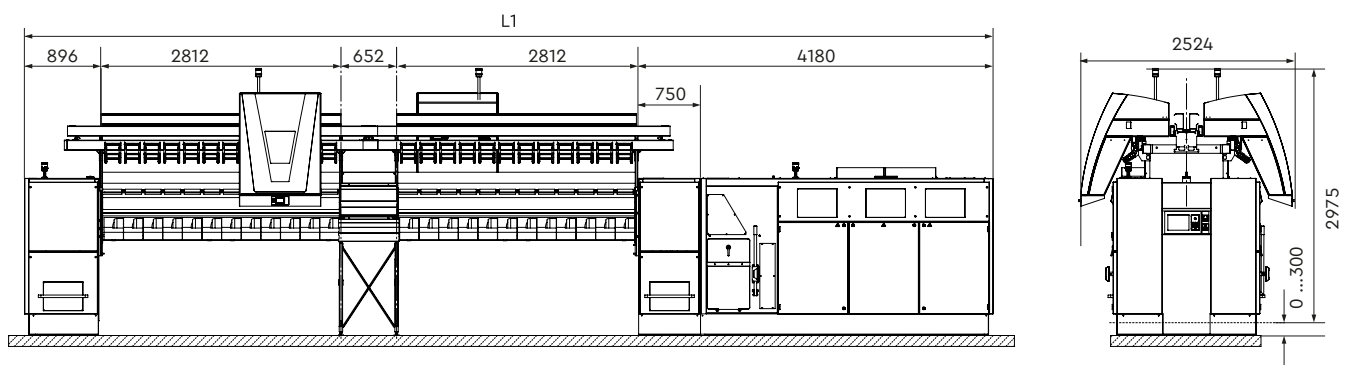
## Dimensions

	Spinning positions	Sections	Length L1
BD 8	48	2	10700 mm
BD 8 and MDU and DU	48	2	11352 mm
BD 8 with Twinsuction	48	2	12439 mm
BD 8 with Twinsuction and MDU and DU	48	2	13091 mm
Dimensions for each additional section	24	1	2812 mm

### BD 8

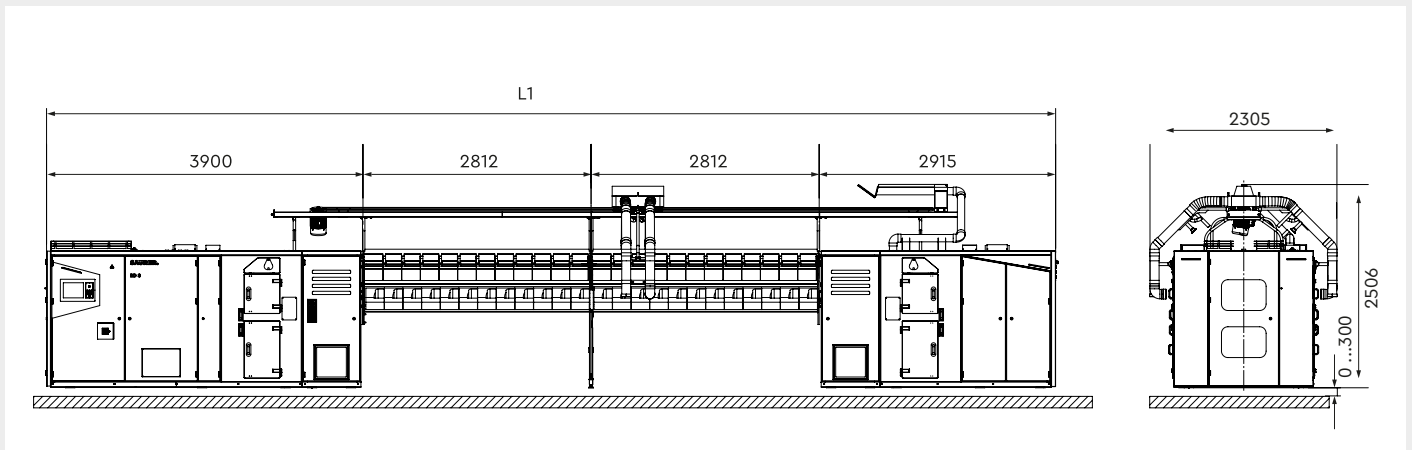


### BD 8 and MDU (Middle Drive Unit) and DU (Doffer Unit)

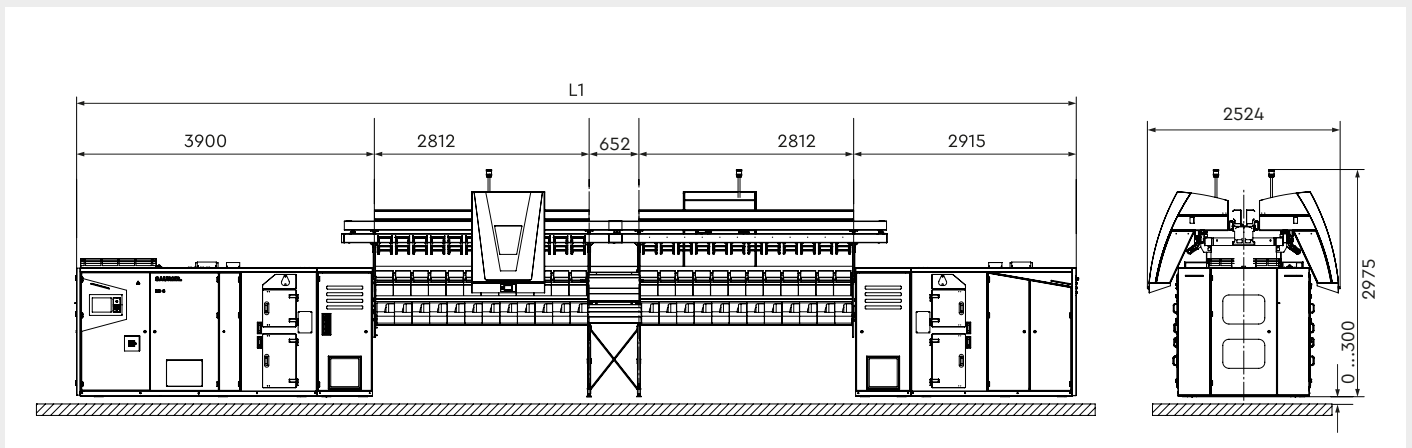


# Dimensions

## BD 8 with Twinsuction



## BD 8 with Twinsuction and MDU (Middle Drive Unit) and DU (Doffer Unit)



# Senses – Sensibly connected.

## Visualise your BD 8 machine data with Senses.

In Senses you can collect, visualise and analyse the machine data of your BD 8 and all other Saurer machines.



### Data transparency in rotor spinning

Senses makes the machine data of your BD 8 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 positions are not running optimally and you can react accordingly. This increases the productivity of your BD 8 on the one hand and the quality 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 rotor 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](https://secos.saurer.com)



### Saurer Academy

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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 BD 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.