

SAURER.



Be faster.

Autospeed/Autospeed M





Zinser Systems offer a wide range of specialised ring-spinning solutions from bale to yarn. Various solutions for all staple fibres; from recycled short fibres and cotton to wool and acrylic.

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 end 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.



E³: 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 E³ 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

Energy saving

- Powerful drive concept
- Energy-optimised bobbin rail drive
- Maximum cost transparency through Energy Monitoring

Economics

Maximum productivity

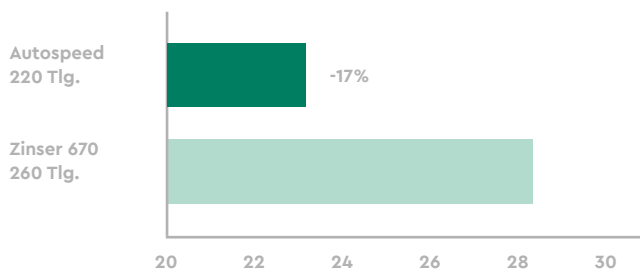
- Long machines for all raw materials
- Doffing time less than 2 minutes
- Short lot change times

Ergonomics

Reduced handling input

- User-friendly settings with Easyspin
- Ergonomically adjustable screen
- Made-to-measure automation

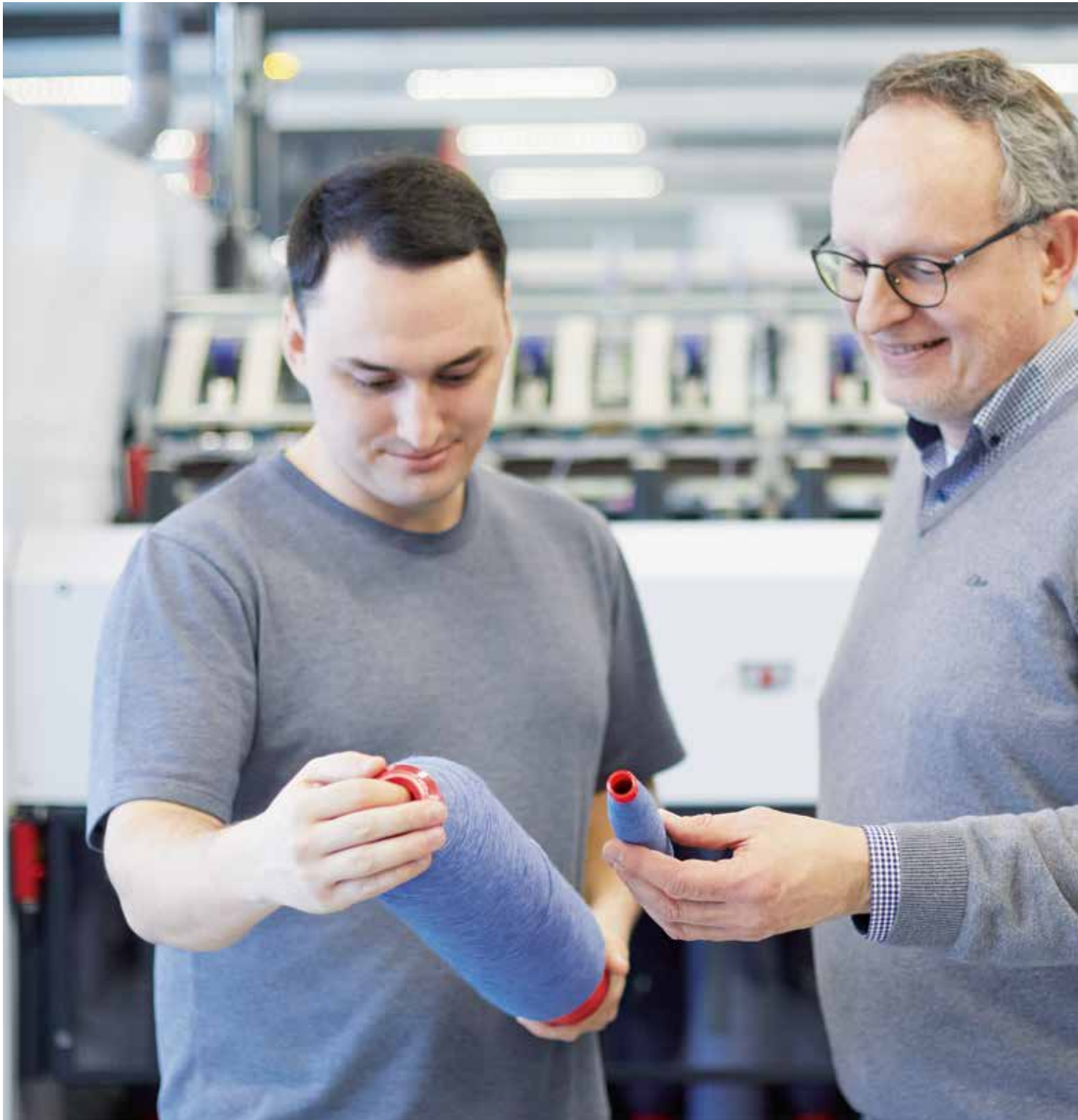
Up to 17% shorter machine length with 220 gauge



with 192 spindles

Machine length (m)

The team player for your success.





- **Perfect roving quality for every application**
- **Innovative energy-saving mode saves up to 20% energy**
- **Highest productivity through flexibility**
- **Minimal manpower requirements**
- **Various automation levels for maximum profits**

Autospeed/Autospeed M – excellent customer benefit.



Autospeed M

-
- 1 Fast, reliable operation with Easyspin

 - 2 Sustainable production thanks to energy-saving mode for suction and flyer table blowing

 - 3 Wide range of applications for long machines thanks to double-sided drafting system drive

 - 4 Maximum productivity thanks to 220 mm gauge with up to 240 spindles

 - 5 Short, efficient doffing time

 - 6 Low personnel costs thanks to automation units



Autospeed





The best roving frame

Spin roving that ideally combines sustainability and quality. Whether you choose the entry-level Autospeed M model for manual doffing or the high-productivity Autospeed with automatic doffer – with roving from the Saurer roving frame you are always a step ahead of the competition.

Individual configuration for all requirements

Whether you deal with cotton, manmade fibres, recycled fibres or blends, our roving frames can be specifically tailored to your needs. You can choose from a range of drafting system variants, enabling you to process any raw material and any staple length in an ideal and highly productive manner.

Ideal partners for sustainable fibers

The processing of recycled fibers is a challenge for the roving frames. The Autospeed/Autospeed M is ready for this and convinces with: adjustable suction, top roller cleaning device with felt, additional roving feed rollers for perfect slivers and large package sizes (16" x 7").



Top roving quality

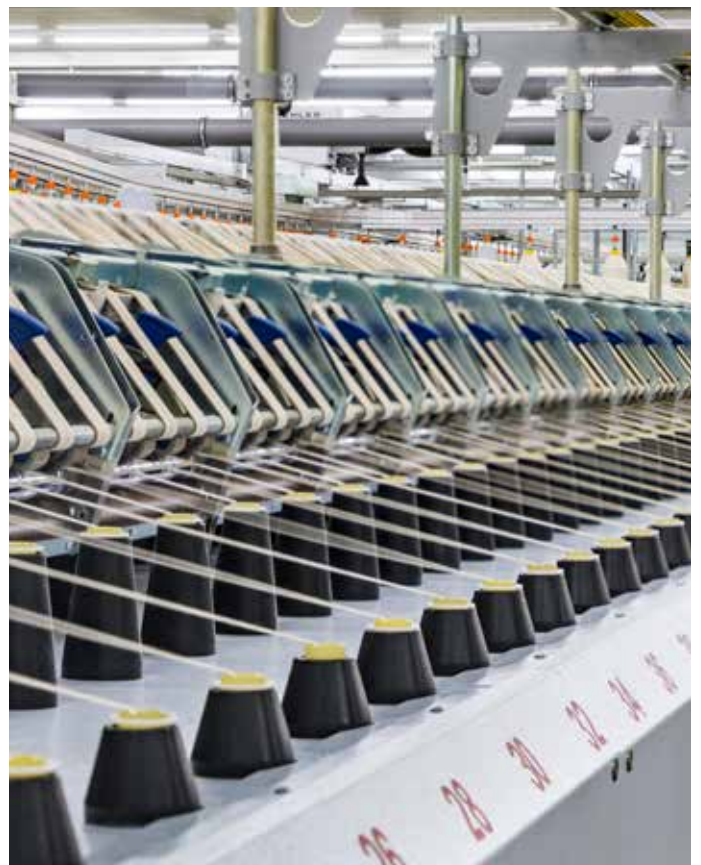
Precise roving feed

The roving runs into the heads of the two flyer rows at exactly the same angle. They therefore produce constant, reproducible quality with no difference in count in the roving between the back and front row. The even roving tension enables higher operational productivity.

High-quality fine yarn production with 220 mm gauge

The manual Autospeed M roving frame and Autospeed automatic roving frame are also available as fine yarn roving frames in 220 mm gauge. The low creel height and additional transport rollers, optionally fitted above each can, protect the sliver and ensure particularly high-quality production.

The roving frame Autospeed is available in 220 mm gauge with up to 240 spindles.





Save energy

Optimised drives reduce your energy consumption

The section motors of the roving frames directly drive the toothed belts for the flyers and spindles – with no additional gear unit. The bobbin rail drive is energy-optimised and offers long-lasting reliability. This reduces your energy and spare parts costs over the long term.

Plus, thanks to its standard mains power failure support system, the roving frame brings production to a controlled stop if a power outage occurs. Ultra-secure production conditions for you!





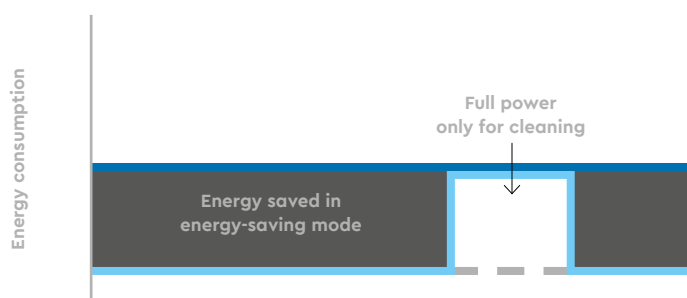
Individual energy savings

The tried-and tested energy-saving mode saves up to 20% of energy. The suction system uses far less power. Full power is only activated briefly for the cleaning cycle. You can adjust the intervals to suit your needs.

Energy Monitoring

Your operators can keep an eye on your machine's energy consumption online with Easyspin. No time-consuming energy measurement is required and production can be optimised in terms of power used. Time, resource and staff savings thanks to integrated online measurement.

Up to 20% lower energy requirements



● Standard roving frame

● Saurer roving frame



High productivity and precise bobbin build

Exact machine control for top speeds

The Easyspin software control system guarantees exact machine control. Using four independent drives, Easyspin coordinates the drafting system, the traverse of the bobbin rail, spindle rotation and flyer rotation. You benefit from consistently high flyer speeds with extremely low break rates and increased productivity.

Ingenious ergonomics with Easyspin touchscreen

The Easyspin touchscreen is located at a new position on the Autospeed. Your personnel are now able to use the ergonomically adjustable screen even during doffing. Fine settings during lot startup and change are explained with user-friendly graphic displays.

Shortest possible lot change for maximum output

Minimise set-up times, increase efficiency. With central settings and article data archive, your productivity levels are better than ever before with Easyspin. Graphic displays simplify the fine settings during lot changes. Ultra-rapid lot changes thanks to intelligent control software.

In addition, a practically unlimited number of lots can be stored on a USB stick and transferred from one roving frame to another.



Optimised flyer speed as the bobbins fill up

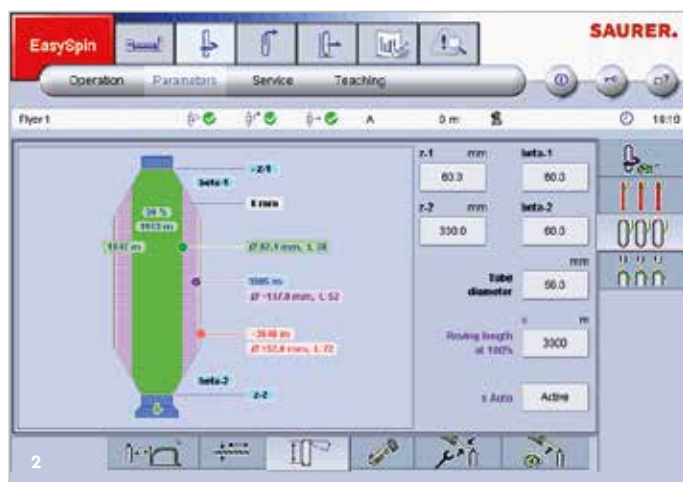
Easyspin optimises bobbin formation with precise control of the main drives as the bobbins fill up. This is achieved through defined control parameters. For top performance at lowest yarn break rates.

Uniform roving tension over entire bobbin structure

Homogenous bobbin build is vital for successful spinning. As a result, you can control the roving tension manually and adjust it precisely to your requirements. The optional Tensioncontrol unit regulates the tension automatically.

Optimal roving monitoring for consistently high quality

All roving frames are equipped with a collective light barrier as standard so as to monitor the roving.



- 1 Easyspin display: optimised flyer speed
- 2 Easyspin display: homogeneous bobbin build

Turbo doffing

Impressive doffing times with the Autospeed

The doffing time of less than two minutes guarantees increased productivity, particularly with long machines because the full bobbins are removed outside the spinning units. The Autospeed thus resumes production as soon as the empty tube is inserted. You therefore increase your productivity, particularly with coarse rovings and frequent doffing operations.

The travel distances and speeds of the bobbin rail are optimally coordinated in order to achieve a rapid doffing process. Ultra-effective doffing technology with inbuilt quality assurance.

Automatically assisted doffing with the Autospeed M

During manual doffing, the bobbin rail is lowered into the ideal lowest position, upon which the bobbin guide releases the roving bobbins via a centre spindle in the flyer. The bobbins can be reached entirely when the bobbin rail is lowered so your staff can even take them out from the back row unproblematically and without damaging them. Separation of the roving, lowering of the bobbin rail into the doffing position, placement of the roving and production startup are all performed fully automatically on the other hand.

- 1 Bobbin rail moves out, doffing bar with empty tubes is lowered
- 2 Removal of full bobbins and mounting of empty tubes
- 3 Raising of doffing bar with full bobbins, insertion of bobbin rail and machine startup



Individually tailored automation solutions

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 Autospeed to the transport system. The Rowelift transfers tubes and bobbins one-to-one and in record time (less than 15 seconds). You benefit from assured quality and less dependence on personnel. For maximum flexibility you can install the transfer station at the front or rear end of the machine.

Roweclean: automatic tube cleaning with outstanding raw material utilisation

With the Autospeed, Roweclean automatically removes roving residues from the tubes. They are sorted according to type and can be reused. You therefore benefit from extremely effective raw material utilisation, as well as savings in terms of resource and personnel input.

Rowestore: automatic tube magazine with a large capacity

The tube magazine ensures there are always enough cleaned tubes in the system so that automatic package change is never interrupted.

Individually tailored solutions from the roving frame to the ring spinning machine

The Saurer Autoflow Systems offers unique automation solutions, tailored to your budget and spinning plant layout. From roving frame to ring spinning machine machine, your processes are quicker, more error-free and less personnel-dependent. For a modern spinning plant and maximum productivity.

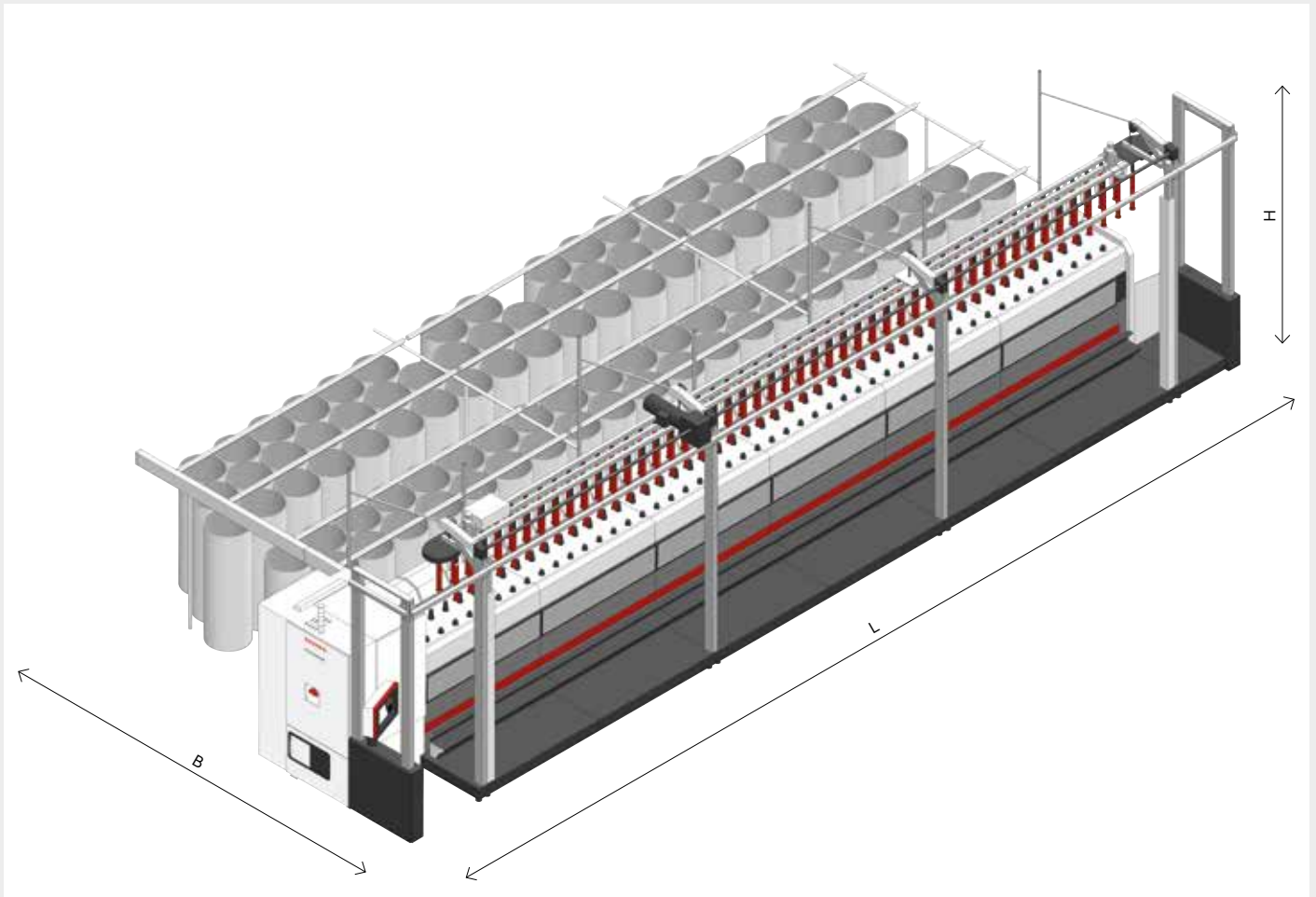


1 Rowelift

2 Roweclean

3 Rowestore

Machine dimensions – Autospeed



Machine length L in mm

$$L = 1200 + X + 925$$

X = No. of spindles x gauge : 2

Machine height H in mm

$$H = 3408$$

Machine width B in mm

Gauge	Can diameter	Machine width
260 mm	20" (500 mm)	approx. 4985
260 mm	24" (600 mm)	approx. 5802
220 mm	20" (500 mm)	approx. 5342
220 mm	24" (600 mm)	approx. 6346

In standard layout

Technical data – Autospeed

Application area

Staple fibres up to 63 mm

Raw materials

Cotton, viscose, manmade fibres, recycled fibres and their blends

Spindles

24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 80, 192, 204, 216

(T = 260 mm)

32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224, 240

(T = 220 mm)

With no. of spindles > 168: double-sided drafting system drive for viscose, manmade fibres, recycled fibres and their blends

With no. of spindles 240: used for 100% cotton, Nm 1.0 (Ne 0.6) and finer

Flyer sizes

400 mm x 150 mm (16" x 6") for T = 220 mm and 260 mm

400 mm x 175 mm (16" x 7") for T = 260 mm

Flyer speed

Max. 1500 rpm

Gauge G

220 mm and 260 mm

Count range

For 16" x 6":

2 222 tex – 200 tex

(Nm 0.5 – 5.0)

(Ne 0.3 – 3.0)

For 16" x 7":

2 222 tex – 455 tex

(Nm 0.5 – 2.2)

(Ne 0.3 – 1.3)

Twist range

10 – 100 twists per metre

(0.25 – 2.54 twists per inch)

Draft range

3.0 – 15.8-fold

Drafting system

3-roller 2-apron drafting system or

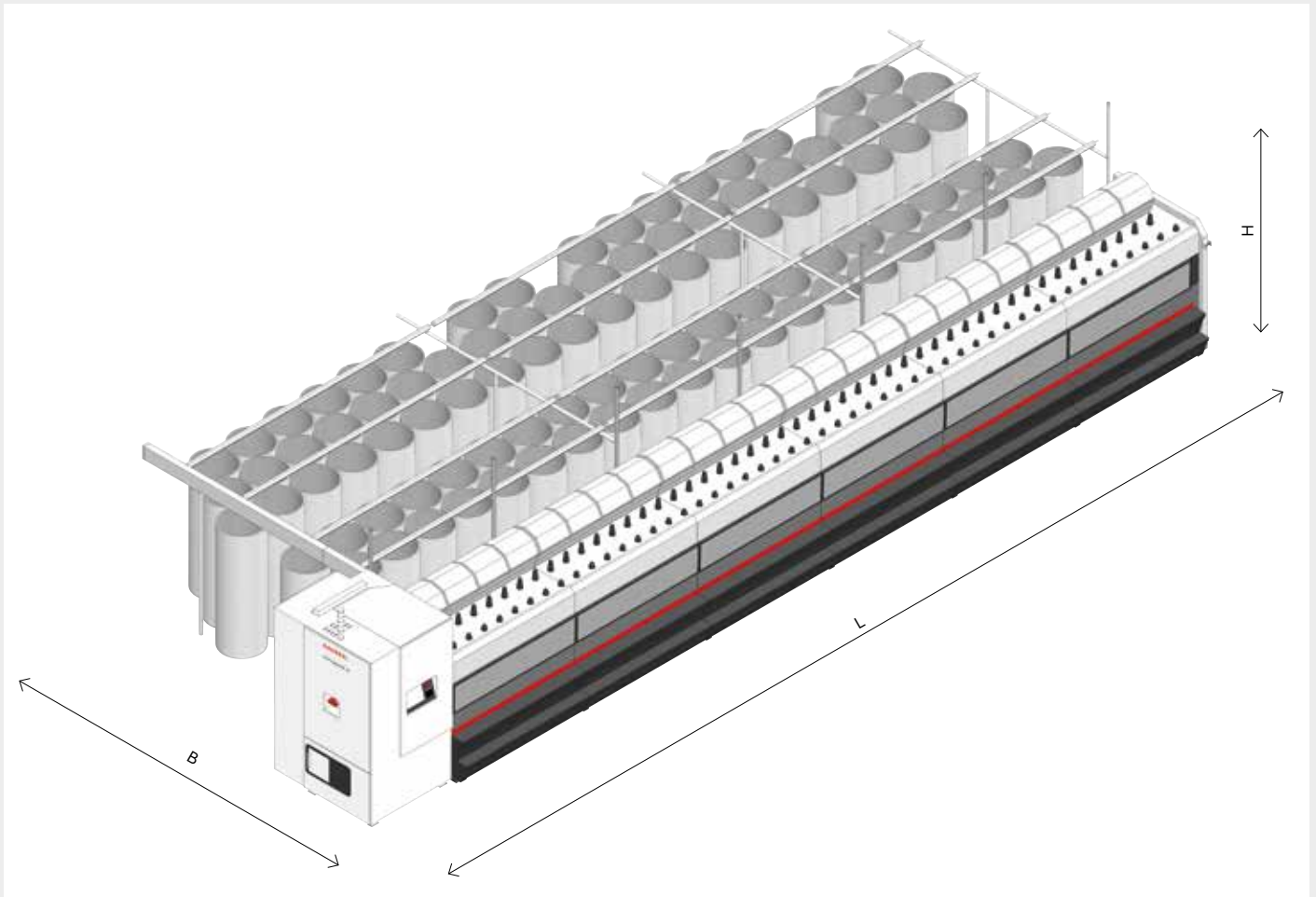
4-roller 2-apron drafting system

Both versions available with double-sided drafting system drive

Options

- Tensioncontrol
- Energy Monitoring
- Senses
- Rowelift
- Roweclean
- Rowestore

Machine dimensions – Autospeed M



Machine length L in mm

Single-sided drafting system drive

$$L = 1\,200 + X + 188$$

Double-sided drafting system drive

$$L = 1\,200 + X + 925$$

X = No. of spindles x gauge : 2

Machine height H in mm

$$H = 2\,520$$

Machine width B in mm

Gauge	Can diameter	Machine width
260 mm	20" (500 mm)	approx. 4 246
260 mm	24" (600 mm)	approx. 5 063
220 mm	20" (500 mm)	approx. 4 603
220 mm	24" (600 mm)	approx. 5 607

In standard layout

Technical data – Autospeed M

Application area

Staple fibres up to 63 mm

Raw materials

Cotton, viscose, manmade fibres, recycled fibres and their blends

Spindles

24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216

(T = 260 mm)

32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208, 224

(T = 220 mm)

With no. of spindles > 168: double-sided drafting system drive for viscose, manmade fibres, recycled fibres and their blends

Flyer sizes

400 mm x 150 mm (16" x 6") for T = 220 mm and 260 mm

400 mm x 175 mm (16" x 7") for T = 260 mm

Flyer speed

Max. 1500 rpm

Gauge G

220 mm and 260 mm

Count range

For 16" x 6":

2 222 tex – 200 tex

(Nm 0.5 – 5.0)

(Ne 0.3 – 3.0)

For 16" x 7":

2 222 tex – 455 tex

(Nm 0.5 – 2.2)

(Ne 0.3 – 1.3)

Twist range

10 – 100 twists per metre

(0.25 – 2.54 twists per inch)

Draft range

3.0 – 15.8-fold

Drafting system

3-roller 2-apron drafting system or

4-roller 2-apron drafting system

Both versions available with double-sided drafting system drive

Options

- Tensioncontrol
- Tube reseve (wider operator step)
- Energy Monitoring
- Prepared for doffing (Autospeed M+)
- Senses

Regarding this brochure:

Research and development never stand still. This may mean that some statements about the roving frames have been rendered obsolete by technical progress. The illustrations are selected for informative content only. They may also include special equipment that does not form part of the standard specification.

Senses – Sensibly connected.

Visualise your roving frame data with Senses.

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



Data transparency in roving process

Senses makes the machine data of your roving frames 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.



Less operator workload with doff view*

The doff preview clearly shows the operator on a screen in the spinning mill where and when the next doff will take place. This allows you to better plan the deployment of your operators.

Find out more about our
Senses Element Shop Floor



* Some functions are option-dependent

Sun – Service Unlimited.

Keep your ring 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.

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

