ZINSER ROVING FRAMES.
FASTER – BECAUSE WE KNOW HOW.
—
No machinery manufacturer has a better understanding of roving frame technology than Zinser. The 5,000 Zinser roving frames that have been installed around the world over the past decades tell a clear story. Benefit from the new Zinser roving frame and spin roving that ideally combines economy and quality.

Whether you choose the entry-level ZinserSpeed 5M model for manual doffing or the high-productivity ZinserSpeed 5A with new automatic doffer – with roving from the Zinser roving frame you are always a step ahead of the competition. Discover the Zinser roving frame now – for optimal roving in any yarn count.
ZinserSpeed 5M

High-quality fine yarn production

1. Optimised spinning program
2. Perfect bobbin engineering
3. EasySpin
4. Energy-saving mode for suction and flyer table blowing
5. Mains power failure protection
6. Central settings
7. Active dialogue
8. USB stick
Zinsespeed 5A

Doffing time less than 2 minutes

1. Low creel height and additional transport rollers
2. Gauge 220 mm or 260 mm
3. Automatic doffing
4. Optional RoWeLift and roving bobbin transport system
Zinser roving frame

With unique E³ added value you benefit three times over: Reduce your energy consumption by up to 20 %. Make sure you get the best from your raw materials. Save time and personnel.

Great benefits from ZinserSpeed 5M and ZinserSpeed 5A roving frames: Faster – because we know how.

**Highlights**

- Short machine length thanks to 220 gauge
- Up to 20 % energy savings from intelligent energy-saving mode
- Precise machine control for maximum productivity
- More production due to extremely short doffing times with new doffer
- Easy and rapid configuration via EasySpin touchscreen
- Ergonomically optimised manual package removal between two automatic doffing operations
- Labour-saving automation options
E³ – Triple added value

We aim to provide our customers with innovative products that make a difference in their production and profitability. The passion for our products drives our innovation. By focusing on our customers’ requirements and combined with Saurer’s philosophy of innovation and sustainability, triple added value has been created.

Energy

Up to 20 % less energy

- Unique drive concept
- New energy-saving mode
- Energy-optimised bobbin rail drive

Economics

Maximum productivity

- Doffing time less than 2 minutes
- Optimised flyer speed
- Short lot change times
- Up to 17 % shorter machine length with 220 gauge

Ergonomics

Minimum personnel requirements

- User-friendly settings with EasySpin
- Ergonomically adjustable screen

Up to 20 % less overall energy consumption required for suction and blowing thanks to energy-saving mode

Up to 17 % shorter machine length with 220 gauge

With 192 spindles
Zinser roving quality

- Maximum value added from drawframe sliver to quality package
- Universal application from fine to coarse
- Consistent roving bobbin quality
- New homogeneous bobbin build with EasySpin
- Fast, reliable operation with EasySpin
- Central setting configuration for maximum reproducibility
- Improved roving quality thanks to flexible press finger solution
The best roving frame

Top performance and ideal quality with Zinser

Top speeds. Precise bobbin build with uniform roving tension. Perfect package engineering from Zinser. The roving frames have all the tools and technologies needed to protect your valuable materials. From precise machine control system to convenient, quality-assured operation, they are designed for top roving quality. They produce optimal roving bobbins that increase your value added.

Perfect roving quality for all requirements

Any raw material, any yarn count, any staple length: Meet the most demanding standards of your customers with Zinser precision technology – and produce top roving quality with maximum efficiency.
Quality in detail

Effective flyer table blowing for clean roving
A steady, gentle flow of air continually cleans the sensitive area of the roving intake. You benefit from particularly clean, high-quality rovings. The ideal basis for efficient downstream processing!

Precision and reproducibility – knowing what matters
With Zinser 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.
**Fine yarn**

**Optimal for ultra-fine yarn with 220 gauge**
The manual ZinserSpeed 5M roving frame and Flyer ZinserSpeed 5A automatic roving frame are also available as fine yarn roving frames in 220 gauge. The low creel height and additional transport rollers protect the sliver and ensure particularly high-quality fine yarn production. And with the 220 gauge you also save on space.

Benefit from top quality from the roving right through to the ring spinning machine thanks to contactless roving transport with the ZinserSpeed 5A. The ideal basis for your fine yarn production!
Up to 20 % less energy

- Energy savings with the proven Zinser drive concept
- Up to 20 % energy savings thanks to new energy-saving mode
- Energy-optimised bobbin rail drive with improved efficiency
Optimised drives reduce your energy consumption
The section motors of the Zinser roving frame directly drive the toothed belts for the flyers and spindles – with no additional gear unit. The new 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 Zinser roving frame brings production to a controlled stop if a power outage occurs. Ultra-secure production conditions for you!

Up to 20 % less energy requirements
The suction system and flyer table blowing system use far less power when operating in the new energy-saving mode. Full power is only activated briefly for the cleaning cycle. You can adjust the intervals to suit your needs.

Up to 20 % less overall energy consumption required for suction and blowing thanks to energy-saving mode
Maximum productivity

- Exact machine control for precise bobbin build and high flyer speeds.
- Optimisation of flyer speed as the bobbins fill up
- Increased flexibility thanks to short lot change times
- Maximum productivity thanks to 220 gauge with up to 208 spindles
- Productivity boost thanks to new automatic doffer with shorter doffing time
High speed

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.

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 Zinser control software.

In addition, a practically unlimited number of lots can be stored on a USB stick and transferred from one Zinser 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 new Zinser control parameters. For top performance at lowest yarn break rates.
Benefits for downstream processing

Uniform roving tension over entire bobbin structure
Homogenous bobbin build is vital for successful spinning. With the Zinser roving frame you can control the roving tension manually and adjust it precisely to your requirements. The optional TensionControl unit regulates the tension automatically.

For maximum productivity and consistently good quality on your ring spinning machine.

Shorter machines with 220 gauge
Both the ZinserSpeed 5M and the ZinserSpeed 5A are available in 220 gauge – with up to 208 spindles.

With a 192-spindle machine you save up to 17 % in terms of machine length (Zinser 670 with 260 gauge compared to a ZinserSpeed 5A with 220 gauge). Thanks to the smaller machine length you are able to utilise your production area more effectively.
Turbo doffing

Reduced doffing times with the ZinserSpeed 5A

The new 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 ZinserSpeed 5A thus resumes production as soon as the empty tube is inserted. You therefore increase your productivity, particularly with coarse rovings and frequent doffing operations.

In addition, the Zinser development team has optimised the doffing process and the bobbin rail now moves out. 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.

Bobbin rail moves out, doffing bar with empty tubes is lowered

Removal of full bobbins and mounting of empty tubes

Raising of doffing bar with full bobbins, insertion of bobbin rail and machine startup
Minimum personnel requirements

- Easy and rapid configuration via EasySpin touchscreen
- Graphic display of processes for ease of user control
- User-friendly manual package removal with height-adjustable doffing bar
- Time savings thanks to rapid and efficient bobbin removal between two automatic doffing operations
Reduction in the operator’s workload

Improved ergonomics with EasySpin touchscreen
The EasySpin touchscreen is located at a new position on the ZinserSpeed 5A: 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.

Efficient package removal between two doffs on the ZinserSpeed 5A
Thanks to a platform your personnel have better access to the drafting system area and flyer table.

With manual bobbin removal your personnel can select an adjustable intermediate position for the doffing bar at an ergonomically optimal height. This enables manual bobbin removal during the idle time between two doffing operations. The burden on your operatives is therefore more evenly spread.
Reliable automation, complete individual solutions for ZinserSpeed 5A

- Roving bobbin transport system with fully automated RoWeLift transfer station
- Automatic RoWeClean tube cleaning for greater productivity and less dependence on personnel
- Zinser Autoflow systems for custom roving transport automation
- Automation solutions from the roving frame to the winding machine
- Customer Support
Improved 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 ZinserSpeed 5A to the transport system.

The new, enhanced version 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 ZinserSpeed 5A, 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 savings in terms of resource and personnel input.

Complete spinning solutions

Individually tailored solutions from the roving frame to the winding machine
The Zinser Autoflow system offers unique automation solutions, tailored to your budget and spinning plant layout. From roving frame to winding machine, your processes are quicker, more error-free and less personnel-dependent. For a modern spinning plant and maximum productivity.

Everything at a glance – the cross-process PCS data system
With the Plant Control System (PCS), you can check in real time your plant’s efficiency and personnel deployment. From the roving frame to the ring spinning and package winding machine, you have everything right at your fingertips. This makes it easier for you to optimise your operational processes and work more efficiently.
Customer Support

SUN – SERVICE UNLIMITED
With SUN – SERVICE UNLIMITED Saurer establishes new service standards for the entire textile value chain. SUN is a bundle of differentiated services that add real value to Saurer machinery throughout its entire life cycle. Highly trained staff accompanied by state-of-the-art tools improve our customers’ daily business in a flexible and individual way. We provide the owners of Saurer machinery with innovative products and best services to improve production and profitability.

With SUN – SERVICE UNLIMITED Saurer sets the benchmarks in:

- Consulting
- Installation
- Know-how Transfer
- Original Parts
- Maintenance and Repair
- Updates and Upgrades
A strong tool, a strong partner
With SECOS 2.0 Saurer is providing its customers with an efficient tool for optimising the operation of machines and equipment. With its second generation, SECOS enables a significant increase in efficiency for processes concerning the maintenance, care, modernisation and procurement of original parts.

With the latest generation of the online portal Saurer underlines its service leadership in textile machinery engineering. Years of experience in online customer service combined with state-of-the-art IT and an innovative user interface produce a number of appealing customer benefits. Users of SECOS 2.0 are given access to all the necessary information for running their product portfolios.

From operating and service documentation to original parts catalogues, up to e-learning modules and knowledge databases – all of it precisely tailored to their machinery and needs.
Technical data ZinserSpeed 5M

Application area
Staple fibres up to 63 mm

Raw materials
Cotton, viscose, manmade fibres and their blends

Spindles
24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192
(G = 260 mm)
32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208
(G = 220 mm)
With no. of spindles above 176 / 180: only for cotton

Flyer sizes
400 mm x 150 mm (16” x 6")
for G = 220 and 260

Draft range
3.0 – 15.8 fold

Drafting system
3-roller 2-apron drafting system
or
4-roller 2-apron drafting system

Options
Roving tension control system
TensionControl
Individual roving detector
Plant Control System

Flyer speed
max. 1,500 rpm

Gauge G
220 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)

Machine length L in mm
L = 1,200 + X + 188
X = No. of spindles x gauge : 2

Machine height H in mm
H = 2,520

Gauge Can diameter Machine width
Can diameter in mm
for (B)

<table>
<thead>
<tr>
<th>Gauge</th>
<th>260</th>
<th>240</th>
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<tr>
<td>260</td>
<td>20&quot; (500 mm)</td>
<td>approx. 4,246 mm</td>
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<tr>
<td>260</td>
<td>24&quot; (600 mm)</td>
<td>approx. 5,063 mm</td>
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<tr>
<td>220</td>
<td>20&quot; (500 mm)</td>
<td>approx. 4,603 mm</td>
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<tr>
<td>220</td>
<td>24&quot; (600 mm)</td>
<td>approx. 5,607 mm</td>
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</tbody>
</table>
Technical data ZinserSpeed 5A

Application area
Staple fibres up to 63 mm

Raw materials
Cotton, viscose, manmade fibres and their blends.

Spindles
24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192
(G = 260 mm)
32, 48, 64, 80, 96, 112, 128, 144, 160, 176, 192, 208
(G = 220 mm)

With no. of spindles above 176 / 180; only for cotton

Flyer sizes
400 mm x 150 mm (16” x 6”) for G = 220 and 260

Gauge G
220 and 260 mm

Count range
For 16” x 6”:
2,222 tex – 200 tex
(Nm 0.5 – 5.0)
(No 0.3 – 3.0)

For 16” x 7”:
2,222 tex – 456 tex
(Nm 0.5 – 2.2)
(No 0.3 – 1.3)

Draft range
3.0 – 15.8 fold

Drafting system
3-roller 2-apron drafting system
or
4-roller 2-apron drafting system

Options
RoWeLift
RoWeClean
Roving tension control system
TensionControl
Individual roving detector
Plant Control System

Twist range
10 – 100 twists per metre
(0.25 – 2.54 twists per inch)

400 mm x 175 mm (16” x 7”) for G = 260

Flyer speed
max. 1,500 rpm

Machine length L in mm
L = 1,200 + X + 925
X = No. of spindles x gauge : 2

Machine height H in mm
H = 3,408

Gauge
Can diameter
Machine width (B)

260 20” (500 mm) approx. 4,985 mm
260 24” (600 mm) approx. 5,802 mm
220 20” (500 mm) approx. 5,342 mm
220 24” (600 mm) approx. 6,346 mm

Machine length L in mm
L = 1,200 + X + 925
X = No. of spindles x gauge : 2

Machine height H in mm
H = 3,408

Gauge
Can diameter
Machine width (B)

260 20” (500 mm) approx. 4,985 mm
260 24” (600 mm) approx. 5,802 mm
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in standard layout

Regarding this brochure:
Research and development never stand still. This may mean that some statements about Zinser products 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.
Our quality management system complies with the requirements of EN ISO 9001.