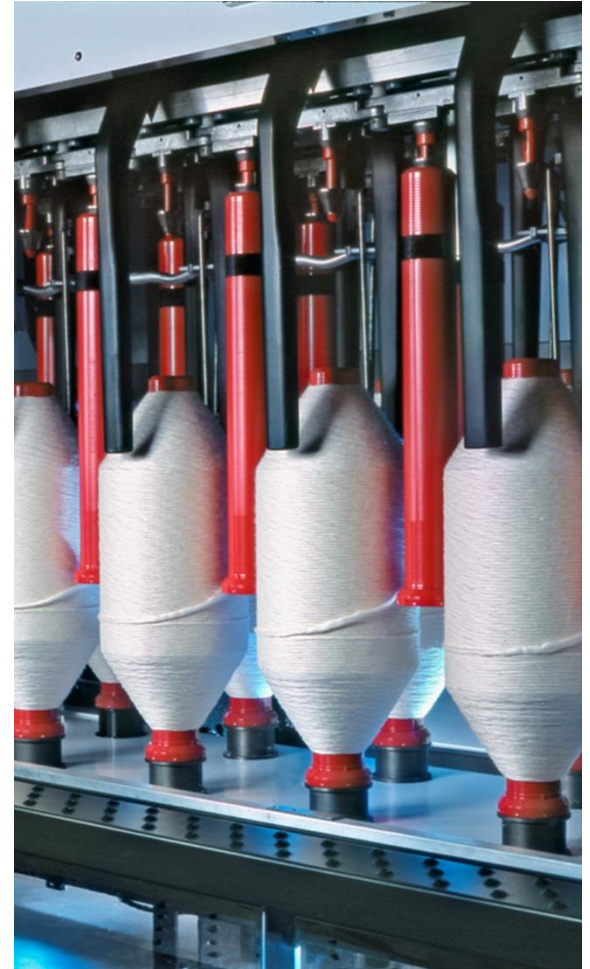


**SAURER.**

**SAURER.  
SAURER PRESS  
CONFERENCE AT  
ITMA MILAN 2015.**

—

**13TH OF NOVEMBER 2015**

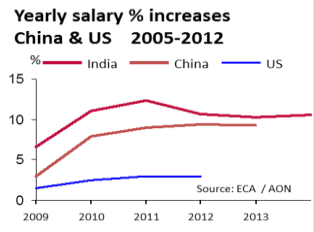

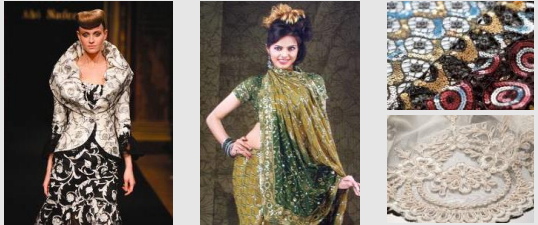


# AGENDA

## SAURER PRESS CONFERENCE ITMA MILAN 2015

<b>0 SAURER</b>	WELCOME	P. TERASA
<b>1 SAURER GROUP</b>	SETTING NEW STANDARDS	M. FOLINI
<b>2 SAURER SCHLAFHORST SAURER ZINSER</b>	INNOVATIONS IN STAPLE YARN SPINNING (RING, ROTOR, WINDING)	M. FOLINI
<b>3 SAURER ALLMA SAURER VOLKMANN</b>	E3 – MACHINES	W. LEUPERS
<b>4 SAURER EMBROIDERY</b>	E3 – EPOCA 7 PRO	S. FREI
<b>5 SAURER COMPONENTS</b>	COMPONENTS, ONLY BETTER	J. SPAHLINGER
<b>6 SUN SERVICE UNLIMITED</b>	WE KEEP YOU COMPETITIVE	TH. ARTER

# MAJOR CHALLENGES FOR THE TEXTILE INDUSTRY

LABOR	NATURAL RESOURCES & ENVIRONMENT	FASHION AND INDIVIDUAL NEEDS
<p>Rising salary cost in industrial regions combined with labor shortage (qualified/ unqualified)</p>	<p>Availability and cost of energy, raw materials, land, and building costs. Environmental protection</p>	<p>Increasing pace of fashion. Changes in materials, lot sizes with short lead times. Regional differences</p>
<p>Yearly salary % increases China &amp; US 2005-2012</p>  <p>Source: ECA / AON</p>		

## HOW SAURER APPROACHES THE CHALLENGES:

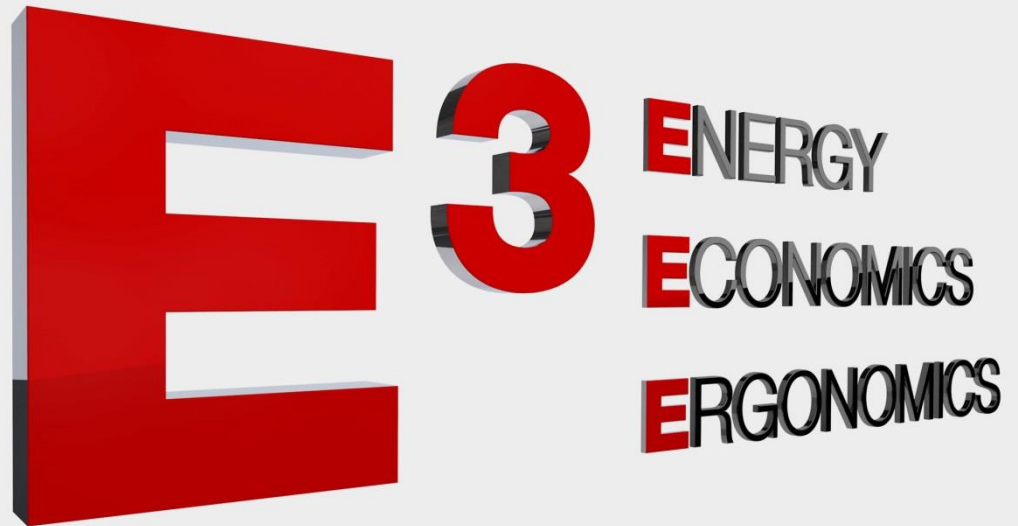
- We create breakthrough innovations to foster customers' profitability.
- We have passion for customers, innovation and quality.
- We created E3; the triple added value (energy, economics, ergonomics).

# E<sup>3</sup> - TRIPLE ADDED VALUE

**ENERGY**

**ECONOMICS**

**ERGONOMICS**



# E<sup>3</sup> - TRIPLE ADDED VALUE

## ENERGY

One of the most important factors in the manufacturing industry today is the cost and availability of energy. Saurer has set new standards in energy consumption in several parts of the value chain

## ECONOMICS

Labor costs increase worldwide. Costs for land and building are constantly rising.  
To help maximize our customers profitability, Saurer offers high quality, productivity enhancing machines with attractive automation options and maximum productivity.

## ERGONOMICS

How to optimize operating conditions of a machine and time needed for settings and adjustments? What is the ideal work flow? These are all questions for which Saurer products provide the ideal solution.

# E<sup>3</sup> - TRIPLE ADDED VALUE ENERGY

## ENERGY

One of the most important factors in the manufacturing industry today is the cost and availability of energy. Saurer has set new standards in energy consumption in several parts of the value chain:

- Zinser roving frames with a new energy saving mode
- Schlafhorst new automatic winder Autoconer 6 with considerable energy saving
- Schlafhorst Autocoro 8 Rotor Spinning machine; double digit energy savings
- Allma and Volkmann Twisting machinery with up to [-40%] energy saving with the patented eco-spindle
- Saurer Embroidery EPOCA 7 PRO with the unique electronically machine setting for up to 5% energy saving

# ENERGY

# E<sup>3</sup> - TRIPLE ADDED VALUE

## ECONOMICS

### ECONOMICS

Labor costs increase worldwide. Costs for land and building are constantly rising.

To help maximize our customers profitability, Saurer offers high quality, productivity enhancing machines with attractive automation options and maximum productivity.

- Zinser 72 Ring Spinning machine with maximum economics; a length up to 1,920 spindles and increased kg/m<sup>2</sup>
- Schlafhorst Autoconer 6 offers 6% higher productivity
- Zinser and Schlafhorst automation systems from roving via spinning up to winding
- Volkmann Carpet Twister with up to 45% higher productivity
- Saurer Embroidery EPOCA 7 PRO: up to 20 % increased productivity with new embroidery speed

### ECONOMICS

# E<sup>3</sup> - TRIPLE ADDED VALUE

## ERGONOMICS

### ERGONOMICS

How to optimize operating conditions of a machine and time needed for settings and adjustments? What is the ideal work flow? These are all questions for which Saurer products provide the ideal solution.

- Zinser roving frames with a new EasySpin touch screen
- Zinser Impact72 with a self-cleaning Impact FX-Unit
- Schlafhorst Autoconer 6 with smart sensor technology and self-regulating processes
- Volkmann Compact Twister with up to 10% less adjustment time
- Allma Techno Corder TC2 with an ergonomically friendly spindle design

**E**RGONOMICS



# JOINT VENTURE SAURER PREMIER

PREMIER AND  
SAURER FORM  
A JOINT  
VENTURE TO  
TAKE A STEP  
CLOSER TO  
COMPLETING  
THE CONTROL  
OF THE DATA  
IN THE  
SPINNING  
PROCESS AND  
OPTIMIZE THE  
YARN QUALITY

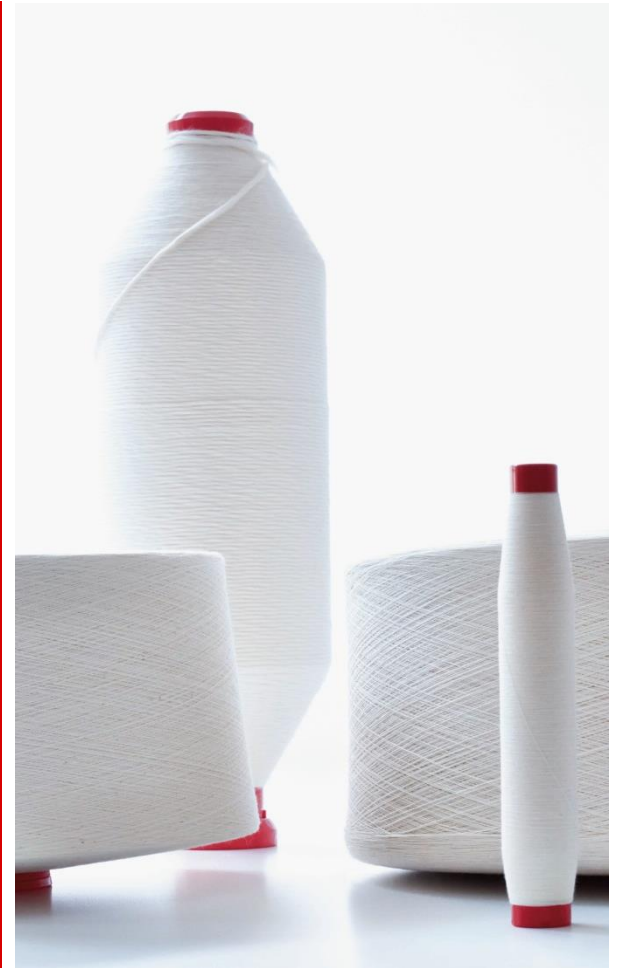
## Saurer.Premier



**SAURER. SAURER.**  
Schlafhorst Zinser

**SAURER.**  
**SCHLAFHORST AND ZINSER.**

—  
**MARTIN FOLINI, 13TH OF NOVEMBER 2015**



# ZINSER SPEED 5A

## FASTER – BECAUSE WE KNOW HOW



### ZINSER ROVING FRAME



### 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
- Shorter machine length with 220 gauge

### Ergonomics

Minimum personnel requirements

- User-friendly settings with EasySpin
- Ergonomically adjustable screen

# ZINSER 72

## SPINNING ECONOMY INTO EVERY YARN



### ZINSER 72



### Energy

Save up to 66% energy for suction

- Up to 53% with TwinSuction
- An additional 13% with OptiSuction
- Energy-efficient motor and drive technology

### Economics

More productivity with 2,016 spindles

- Up to 21% less space required
- Up to 11% lower production costs
- Up to 20% increase in production due to twist reduction with Impact FX
- Top speeds and lowest yarn break rates

### Ergonomics

Minimise staff and servicing

- Staff savings of up to 66% with CoWeFeed
- Reduced handling and maintenance input
- Short operating times at EasySpin
- Made-to-measure automation

# AUTOCONER 6

## THE BEST ORIGINAL EVER



### AUTO- CONER 6



### Energy

Up to 20% less energy

New Eco-Drum-Drive System

- Power on demand with SmartCycle and intelligent vacuum control
- Reduced compressed air by MultiJet

### Economics

Up to 2 x 6% more productivity

Shorter cycle times with SmartCycle and LaunchControl

- Highest production speeds
- Best space utilisation in kg/m<sup>2</sup>

### Ergonomics

Minimum personnel requirement

Intelligence inside

- Smart sensor technology and autocalibration
- Intelligent doffer functions SmartJet and Tube Check



# AUTOCONER 6

## THE BEST ORIGINAL EVER

### AUTO- CONER 6



### Most modern automation

Individual spinning mill automation  
Smart bobbin management using

- VarioReserve
- High Speed Feeding
- Intelligent BobbinSharing
- Unique 9+1 bobbin feeding principle for type RM machines
- Intelligent package handling

### Benchmark for package quality

For Commodity and High-end  
Innovative quality features even with the basic equipment

- TensionControl
- VariotenseFX
- Gate tensioner
- New LaunchControl
- New SmartSplicer family
- Premium FX winding technology

# BD6. DEFINING A NEW CLASS POWERED BY AUTOCORO TECHNOLOGIES

## BD 6

**THE NEW  
BD 6 WITH  
E3 ADDED  
VALUE –  
IN A CLASS  
OF ITS OWN**



### Energy

Up to 10% less energy

- Energy-saving drives
- Higher efficiency level
- Better machine aerodynamics

### Economics

Increased productivity

- Long machines
- Take-up speeds of up to 230 m/min
- Optimised NSB 6 spinbox for all can sizes, all raw materials, even for regenerated fibres and spinning wastes

### Ergonomics

Optimised labour utilization

- 3-colour LED signal system at each spinning unit
- Time-saving operator prompts
- Low operating and removal height

# BD6. DEFINING A NEW CLASS POWERED BY AUTOCORO TECHNOLOGIES

## BD 6



- High-speed spinning at up to 230 m/min for all raw materials
- Autocoro package quality with excellent unwinding properties
- Patented digital technology DigiPiecing
- More production per m<sup>2</sup> with customisable machine lengths.
- Increase flexibility with MultiLot, PilotGroup and Fancynation.
- Time- and labour-saving machine operation, Informator with intuitive Styleguide user interface.
- Digital yarn quality assurance with Corolab Q2 and Corolab F2.
- Digital package quality assurance



# AUTOCORO 9

## LEADING TECHNOLOGY – THE NEXT GENERATION

### AUTO-CORO 9

THE NEXT AUTOCORO GENERATION IS AGAIN TAKING OVER LEADERSHIP OF THE MARKET.



**E3** ENERGY  
ECONOMICS  
ERGONOMICS



### Energy

Up to 20% less energy

- Minimum energy costs
- Innovations for greater energy efficiency
- Maximum cost transparency through energy monitoring

### Economics

Up to 30% more productivity

- Outstanding efficiency
- Maximum productivity for commodity and specialist applications
- Outstanding productivity per m<sup>2</sup>

### Ergonomics

Up to 60% less maintenance costs

- Intelligent processes
- Maintenance and cleaning during on-going operation
- Intuitive, smart symbol display
- 30% larger tube magazine with automatic tube color control

# AUTOCORO 9

## LEADING TECHNOLOGY – THE NEXT GENERATION

### AUTO-CORO 9



- Maximise efficiency with the unique individual spinning position technology
- High rotor speeds of up to 180,000 rpm in practice and take-off speeds of up to 300 m/min
- Individually customizable machine length, perfectly automated
- Up to 6 doffers and SynchroPiecing 24
- Maximum productivity/m<sup>2</sup> thanks to optimal space utilization
- Maximum economic efficiency in all markets

**SAURER. SAURER.**  
Allma Volkmann

**SAURER.  
ALLMA AND VOLKMANN.**

—  
**WOLFGANG LEUPERS, 13TH OF NOVEMBER 2015**



# ALLMA VOLKMANN

## MARKET LEADER IN STAPLE FIBRE, CARPET, GLASS, TIRE CORD AND INDUSTRIAL YARN TWISTING

### STAPLE FIBRE TWISTING (VOLKMANN)



- High-performance twisting machines with a multitude of functional options for all staple fibre yarns



### CARPET & GLASS YARN TWISTING (VOLKMANN)



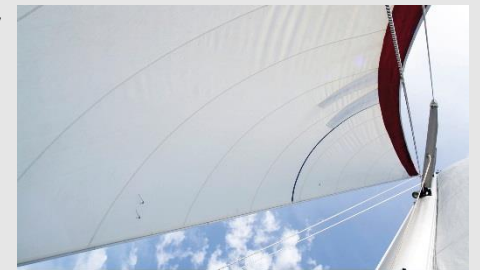
- Twisting and direct cabling machines for all kinds of carpet and hand knitting yarns
- High-performance ring twisting machines for up-twisting glass filament yarns



### TIRE CORD AND INDUSTRIAL YARN (ALLMA)



- Universal two-for-one twister for all technical yarns made of single and multiple yarns
- Direct cabling machines for high-quality balanced 2-ply tire cord





# COMPACT TWISTER

## SETS NEW BENCHMARKS WITH E<sup>3</sup> TECHNOLOGY

**E<sup>3</sup>** ENERGY  
ECONOMICS  
ERGONOMICS

**ENERGY**  
UP TO 40% ENERGY  
SAVING

**ECONOMICS**  
UP TO 30% HIGHER  
PRODUCTIVITY

**ERGONOMICS**  
UP TO 10% LESS  
ADJUSTMENT TIME



**SAURER.**

# CARPET TWISTER / CARPET CABLER / HEAT-SET FOR PERFECT CARPET YARNS

**E<sup>3</sup>** ENERGY  
ECONOMICS  
ERGONOMICS

**ENERGY**  
UP TO 40% ENERGY  
SAVING

**ECONOMICS**  
UP TO 45% HIGHER  
PRODUCTIVITY

**ERGONOMICS**  
HEAT-SET PROCESS  
INTEGRATION



**SAURER.**

# TECHNO CORDER TC2

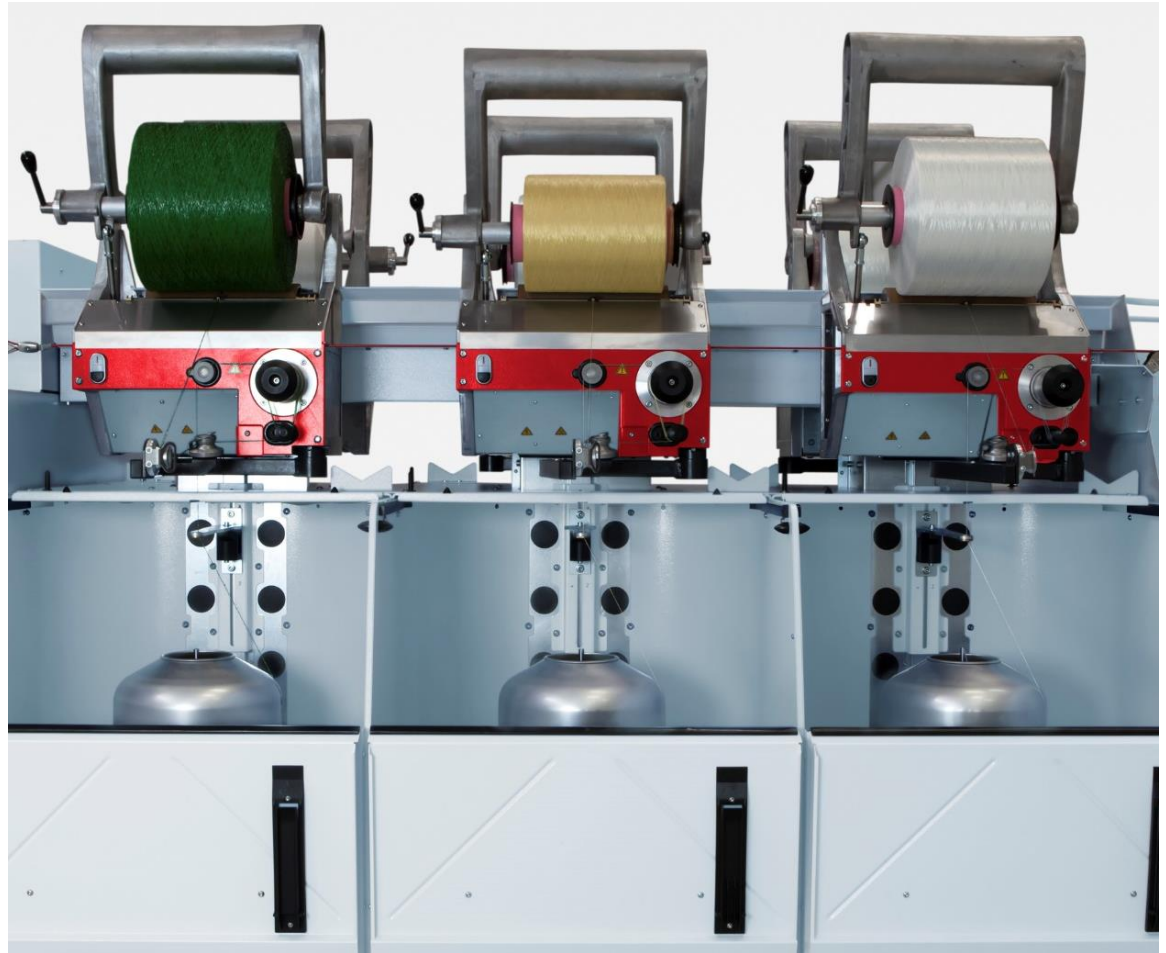
## TRIPLE ADDED VALUE FOR HIGH CUSTOMER BENEFIT

**E<sup>3</sup>** ENERGY  
ECONOMICS  
ERGONOMICS

**ENERGY**  
UP TO 10% ENERGY  
SAVING

**ECONOMICS**  
UP TO 30% HIGHER  
PRODUCTIVITY

**ERGONOMICS**  
ERGONOMICALLY  
FRIENDLY SPINDLE  
DESIGN

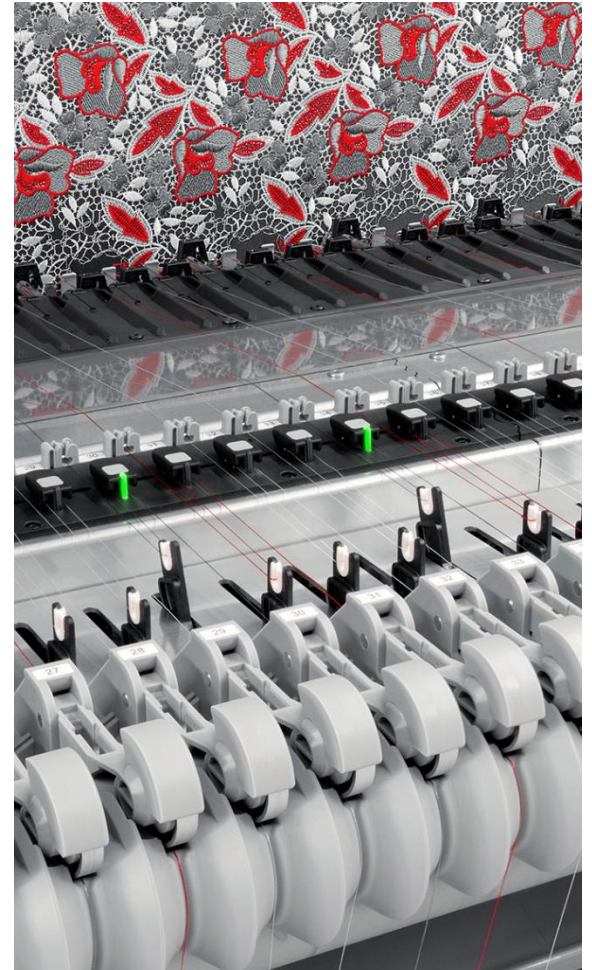


**SAURER.**

**SAURER.**  
Embroidery

**SAURER.**  
**EMBROIDERY.**

—  
SIMON FREI, 13TH OF NOVEMBER 2015





# SAURER EMBROIDERY

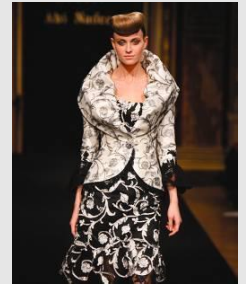
## TEXTILE CREATIONS FOR THE FUTURE

### EPOCA 7



- **The new innovative embroidery system**

- Highest productivity
- Latest technology
- Absolute reliability



### EMBROIDERY APPLICATION



- **Embroidery applications**

- HeadLine System
- Sequins
- Soutache
- HeatCut



### EM STUDIO



- **Embroidery CAD/CAM system**

- Integrates all steps from the sketch to the embroidery machine on a single platform.



# EPOCA 7 PRO

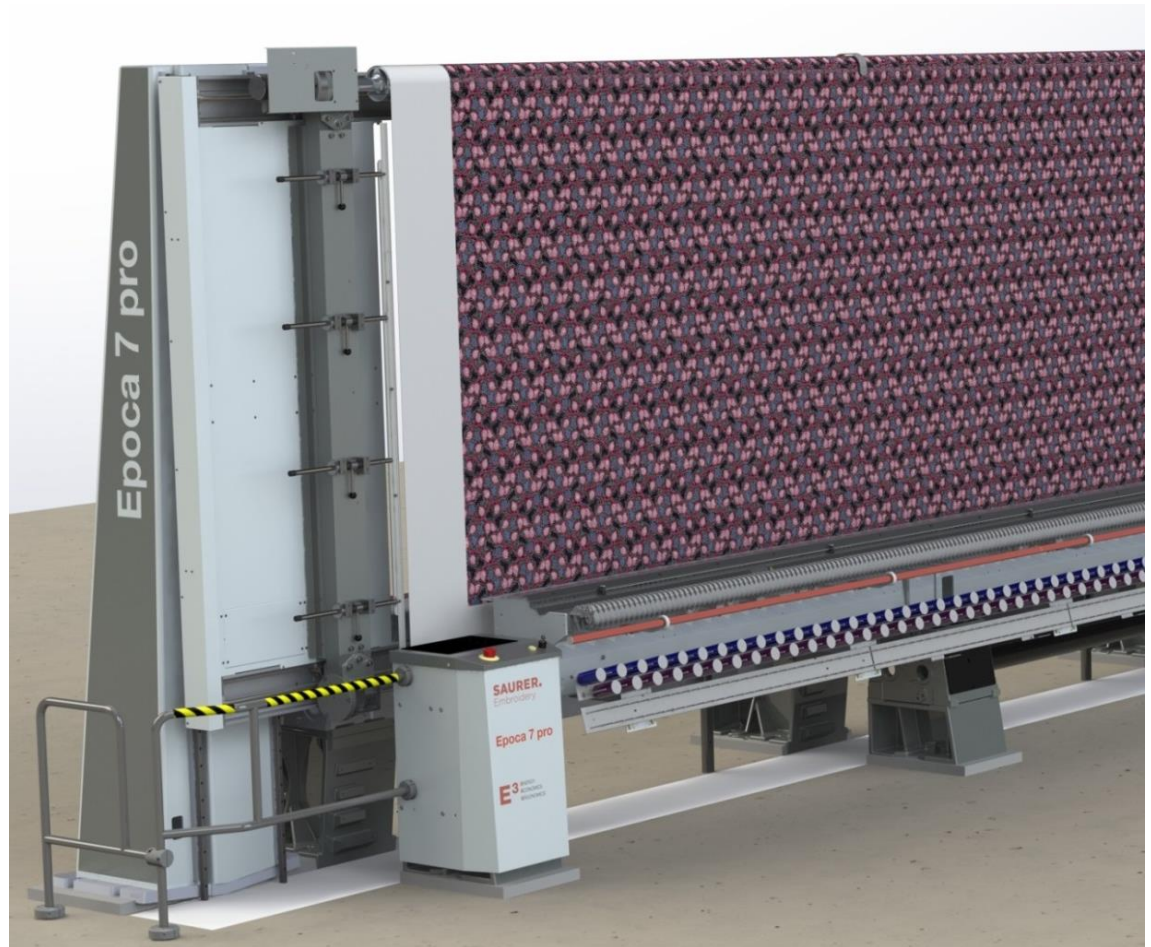
## THE NEW INNOVATIVE EMBROIDERY SYSTEM

**E3** ENERGY  
ECONOMICS  
ERGONOMICS

**ENERGY**  
UP TO 5% ENERGY  
SAVING

**ECONOMICS**  
UP TO 20% HIGHER  
PRODUCTIVITY

**ERGONOMICS**  
UNIQUE  
ELECTRONICAL  
MACHINE SETTINGS



**SAURER.**



# HEAD LINE SYSTEM

## THE UNIQUE APPLICATION SOLUTION

### Unique Application System

- Electronically powered application heads for cord, ribbon and various sequins

### Impressive precision at high production speeds

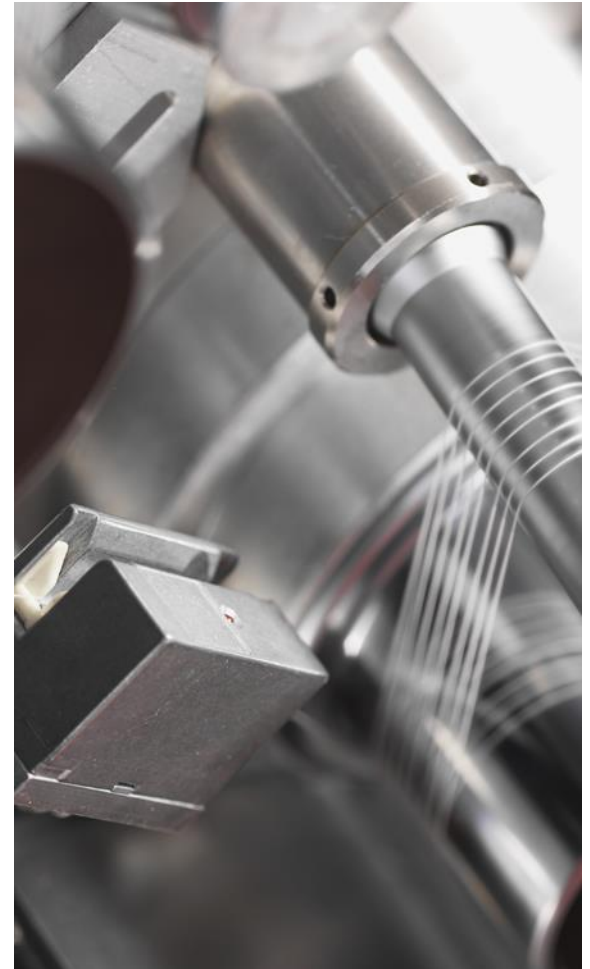
- Sequins up to 600 rpm
- Soutache up to 500 rpm
- Easy and quick head interchange
- Individual positioning of the application heads
- Ergonomic lift system



# SAURER.

## SAURER. COMPONENTS, ONLY BETTER.

—  
JÖRG SPAHLINGER, 13TH OF NOVEMBER 2013



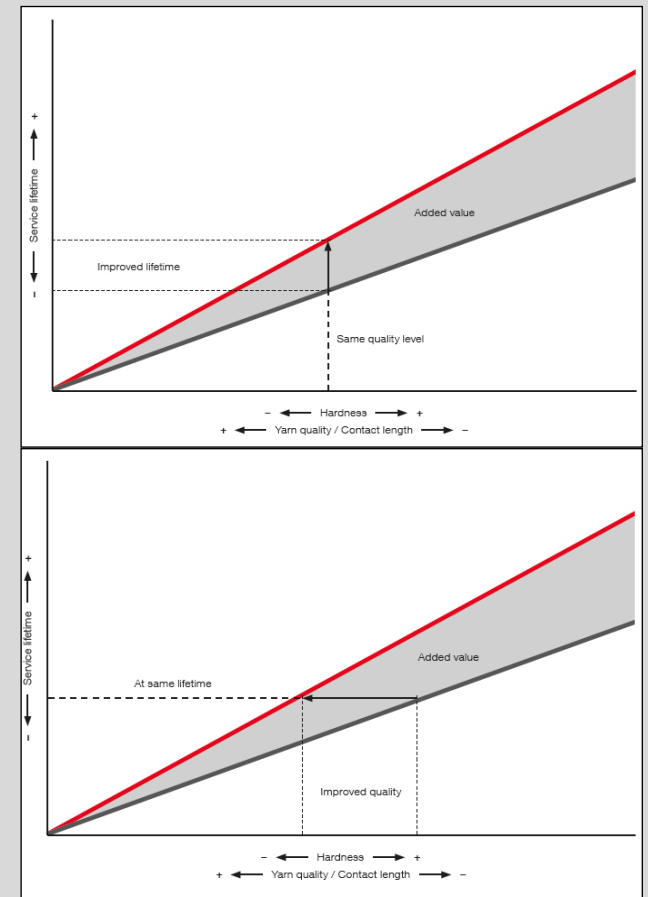
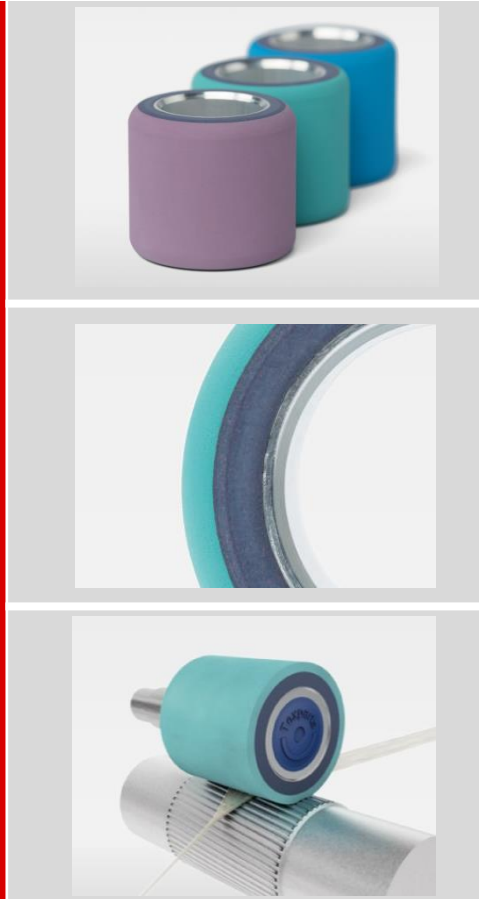
**SAURER. SAURER. SAURER. SAURER. SAURER. SAURER.**  
Accotex Daytex Fibrevision Heberlein Temco Texparts

# ACCOSMART – THE SANDWICH CONCEPT

## SAURER ACCOTEX

### THE CONCEPT ENABLES

- LONGER SERVICE LIFE
- STABLE YARN QUALITY
- HIGH ABRASION RESISTANCE
- WIDE YARN COUNT RANGE
- LOW CRACK SENSITIVITY



# FIBREVISION - BROKEN FILAMENT MONITORING

## SAURER FIBREVISION

### FRAYTEC FV 2. THE STANDARD FOR BROKEN FILAMENT MONITORING.



- Full characterisation of the size of broken filaments and slubs
- Utilising both central and trigger optics
- Interlace and denier variation measurement

### FRAYCAM 2. MONITORING EXCELLENCE FOR T&I.



- Self-contained system
- Compact, only 145 x 142 x 49 mm
- Photo ID - both individual broken filaments and larger “slub” events are captured
- Enabled for production and R&D environment

# AIR JETS – FACTS AND FIGURES

## SAURER HEBERLEIN

### **POLYJET-2 HP. HIGH PERFORMANCE INTERLACING.**



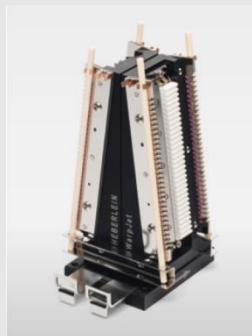
- Significant air savings
- Higher number of knots per metre
- Specially suitable for microfilament, fine yarns, normal or coarse yarns
- Retrofit for existing housings

### **KF JET INSERT. ENTANGLEMENT WITHOUT VISIBLE INTERLACE KNOTS.**



- Ultra gentle treatment of the yarn
- Leaves no visible imperfections in the fabric
- Provides excellent package unwinding
- Suited for micro filament and polyester yarns
- Designed for SlideJet and SwissJet housing

### **WARPJET. TIME SAVING THREADING, ENERGY EFFICIENT CUSTOM INTERLACING SOLUTIONS.**



- Up to 50% lower air consumption
- Efficient and easy threading from the topside
- High processing speeds
- For polyester and polyamide from fine to medium count ranges
- Provides high uniformity and interlacing performance



# TEMCO

## SAURER TEMCO

### SEPARATOR ROLLER VR50300-00-HS. HIGH SPEED APPLICATIONS.



- Substitute for air-bearing separator rollers
- Maximum yarn speed of 5,500 m/min
- For maximum yarn temperature of 190 °C
- For a wide variety of spinning processes, including in the hotbox

### PU DISC WITH 12 MM DIAMETER. THE FUTURE TREND?



- Prolonged life time due to lower mechanical lead and operation temperature
- Slower wear rate because of increased disc diameter and thickness
- Longer bearing life time by lower revolution rpm and operating temperature

### USU HOLLOW SPINDLE.



- Higher performance at longer life time
- Energy saving integrated bearing unit
- Extended speed range on a low vibration level
- All purpose spindle for higher process stability
- Reduced maintenance costs



# TEXPARTS

## SAURER TEXPARTS

### COMPACT ADAPTION. PK 2600 SERIES MEETS COMPACT.



- Advanced versatility
- No interference between nip and front top roller
- Fully seated front roller in the guide arm for best alignment
- Stable and independent load on nip roller

### RING HOLDER. UNIVERSAL RING HOLDER.



- Increased production by up to 5 % due to centered rings
- The cost of replacement rings is reduced by 50%
- Suitable for smaller rings e.g. 38 mm

### ZERO UNDERWINDING SYSTEMS. PREVENTS UNDERWOUND ENDS.



- Reliable clamping of the yarn ends
- Fail-safe yarn cutting
- Precise and long-lasting function
- Easy handling

**SAURER.**

**SAURER.  
CUSTOMER SUPPORT.**

—

**THOMAS ARTER, 13TH OF NOVEMBER 2015**



# SUN – SERVICE UNLIMITED

## CUSTOMER SUPPORT AT ITMA MILAN 2015

### SUN - SERVICE UNLIMITED



- SUN-SERVICE UNLIMITED sets new benchmarks in Consulting, Installation, Know-How Transfer, Original Parts, Maintenance and Repair, Updates and Upgrades

### SECOS 2.0



- Update with new features

### SUN-PLAN AUTOCORO 8, 9



- NEW: SUN-PLAN: service at a fixed price
- Setting a new standard with innovative service products

### SUN-SHOW ON ITMA



- Daily Show with our SUN highlights and RED MEN
- at 11 a.m.,
- at 1 / 3 / 5 p.m.

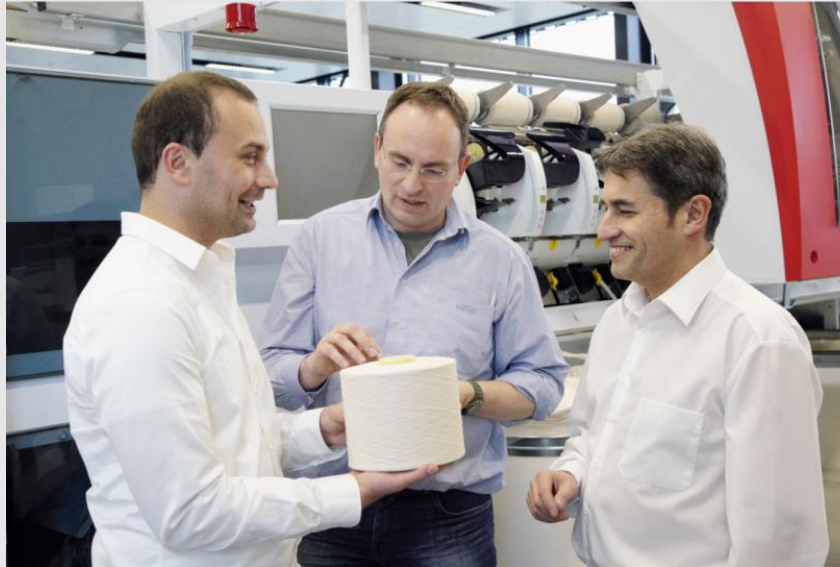
# CUSTOMER SUPPORT

## WE KEEP YOU COMPETITIVE

**CUSTOMER  
SUPPORT**

**FOR ALL  
PRODUCT  
LINES**

**ZINSER  
AUTOCONER  
BD  
AUTOCORO**



- **Setting a new standard with innovative service products**  
NEW: SUN-PLAN: service at a fixed price
- **Life-cycle partnership**  
Responsibility of innovation for the entire product life cycle
- **Increase in productivity and quality, and energy savings**  
by
  - Modernisation kits
  - Service kits
  - Technology kits
  - Original parts

# SUN-PLAN

## THE SERVICE YOU ALWAYS ASKED FOR

### SUN-PLAN

**NEW:  
INDIVIDUAL  
SERVICE AT  
A FIXED  
PRICE**



- **New: SUN-PLAN service agreements**
  - At a fixed price
  - Precise calculation of the servicing expenditure
  - Secured productivity
- **SUN-PLAN PROFIT Autocoro 8 and 9**  
Your basis for maximum productivity
- **SUN-PLAN DRIVE Autocoro 8 and 9**  
The package for even greater production reliability
- **Service agreements for other machines under preparation**

**SAURER.**  
WE LIVE TEXTILE.

THANK YOU FOR YOUR ATTENTION.