

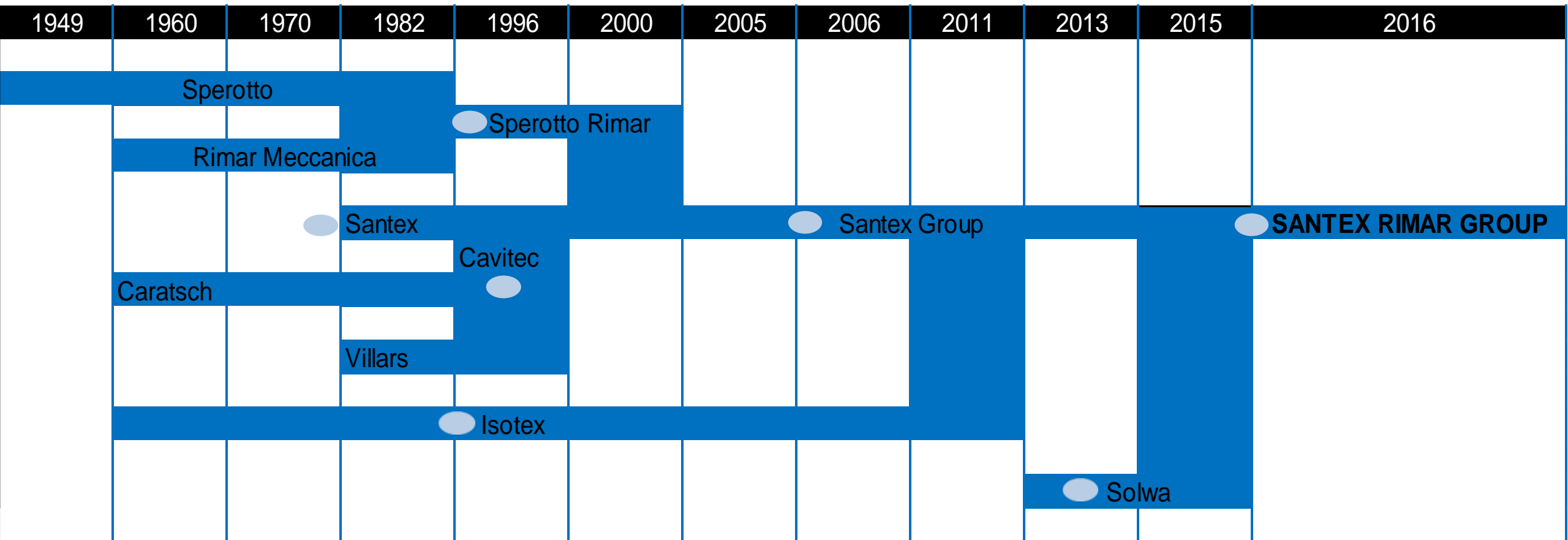
S A N T E X  
R I M A R  
G R O U P

## GROUP VISION

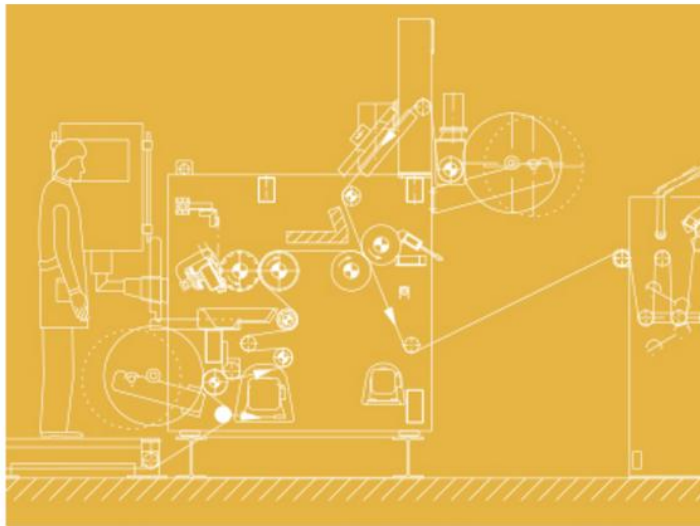
SANTEX RIMAR GROUP is based on continuous global growth, innovative product development and highest level of service available.

We build custom machinery that change the way our customers make business.

# SANTEX RIMAR GROUP THE HISTORY



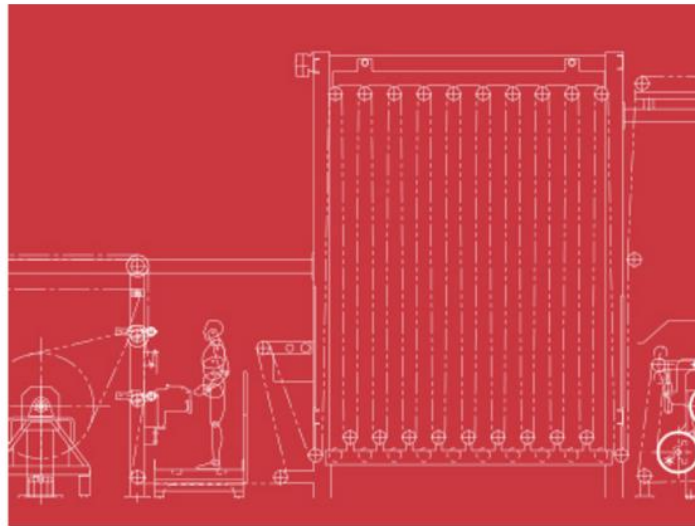
# SANTEX RIMAR GROUP DIVISIONS



TECHNICAL TEXTILE AND NONWOVEN

CAVITEC

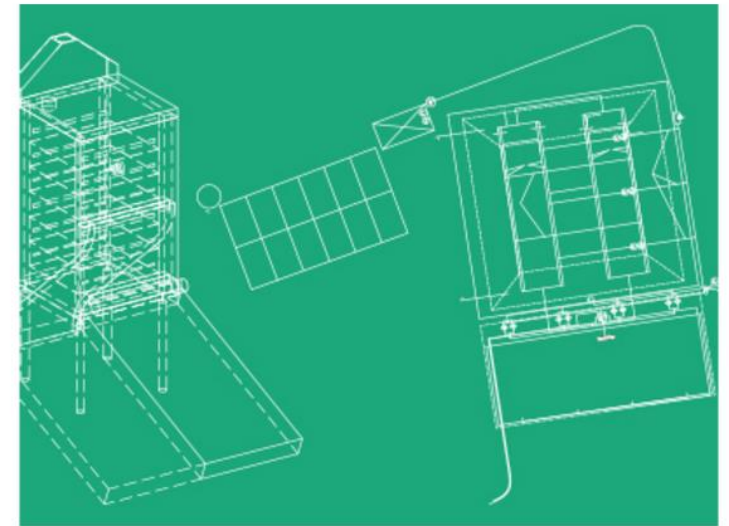
ISOTEX®



TEXTILE FINISHING

SANTEX

SperottoRimar



GREENTECH

SOLWA

TECHNICAL TEXTILE AND NONWOVEN



**CAVITEC®**

Machines for coating, laminating, impregnation,  
prepreg and nonwoven

**ISOTEX®**

Coating, embossing and printing machines



**CAVIMELT**

Coating and laminating



**CAVI2COAT**

Multifunctional coating and laminating



**CAVIFLEX**

Hotmelt laminating machine with exchangeable coating modules



**CAVIMELT PP**

Plug and play



**CAVIPREG**

Prepreg lines



**CAVISCAT**

Scattered coating and laminating



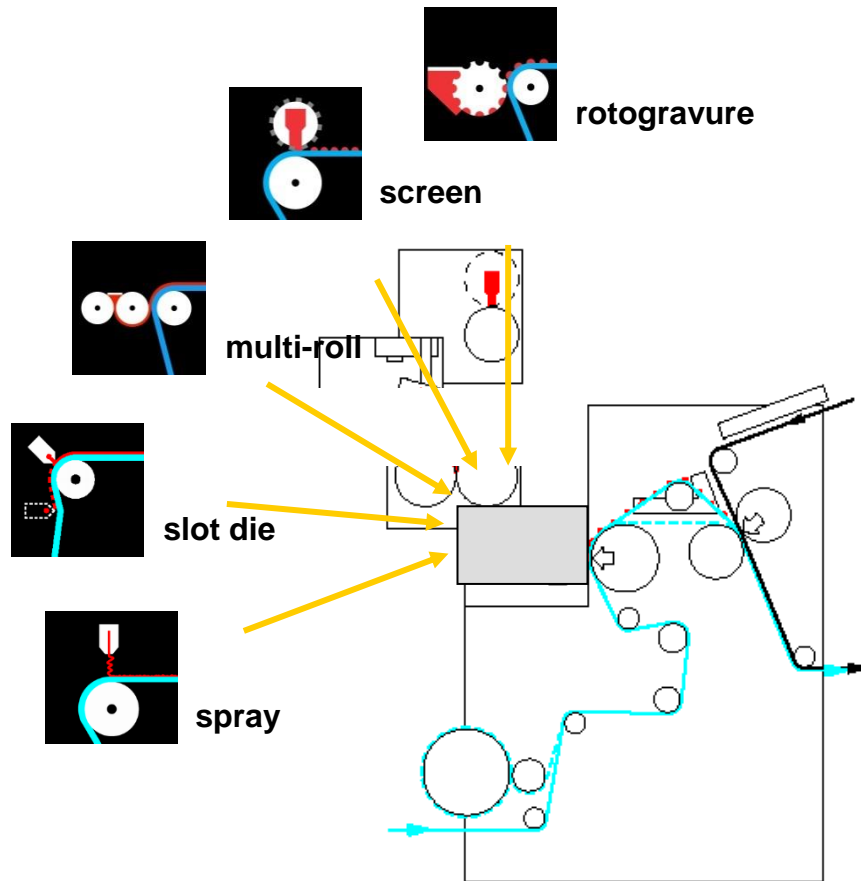
**NONWOVENS**

Thermofixing of nonwovens

# Hotmelt Technologies



## Modular system CAVIFLEX



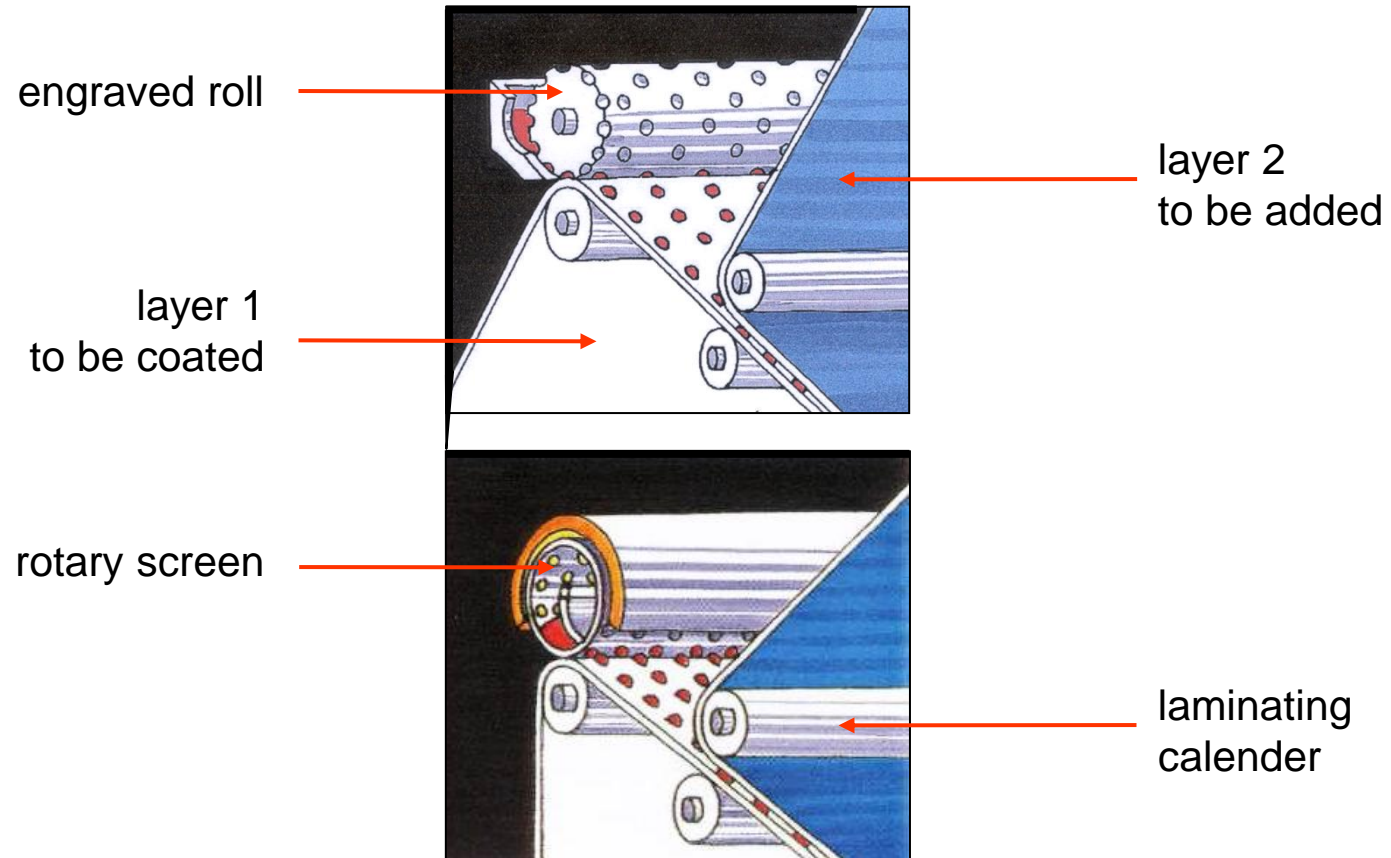
A machine with exchangeable coating modules

- module change in 30 minutes
- flexibility for custom laminators
- modules can be added later

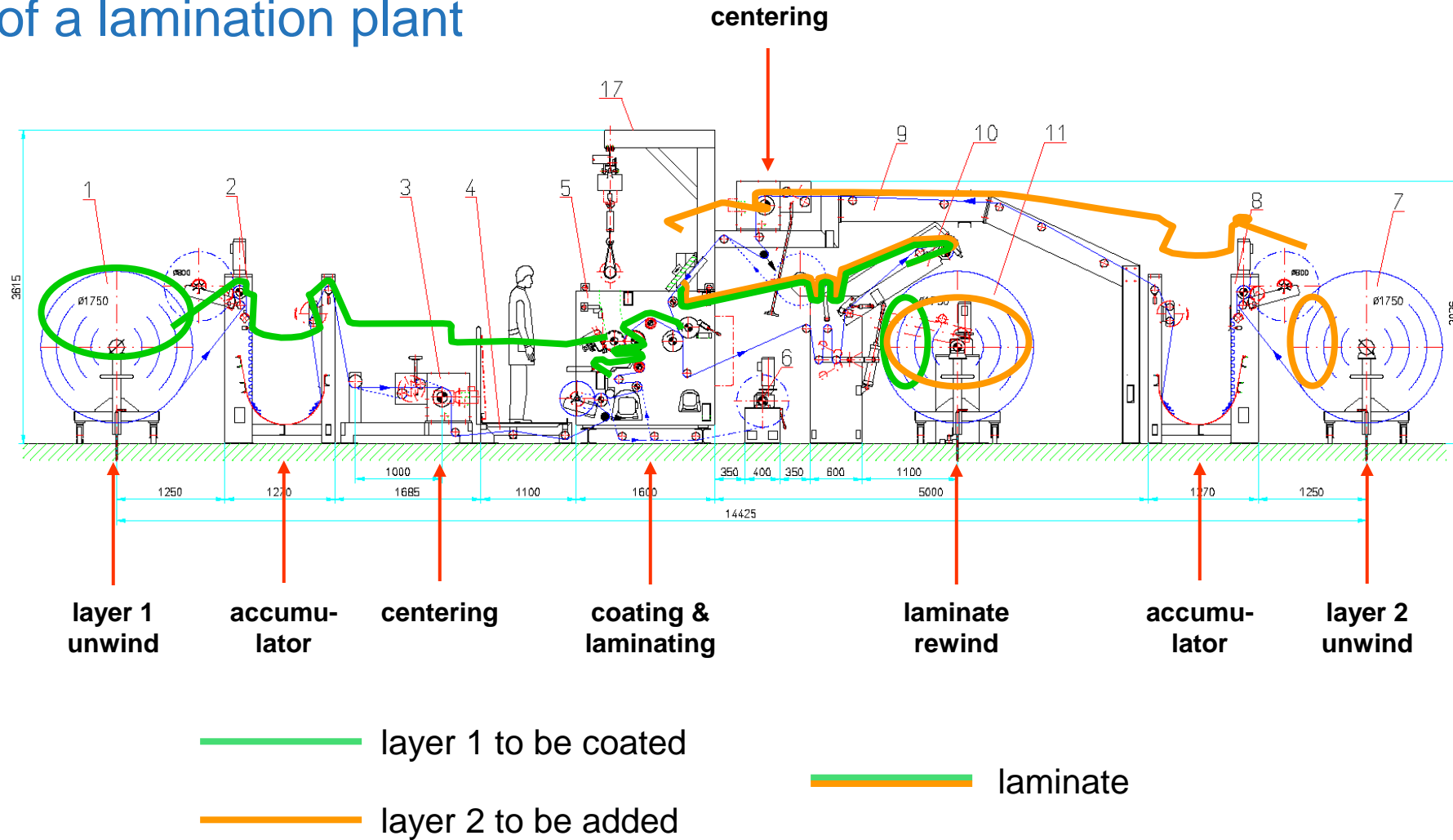
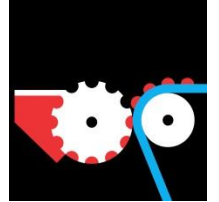


## Lamination = Bonding

web layers are bonded together → laminate



## Example of a lamination plant



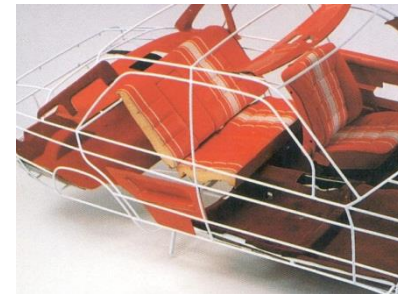
## Applications for Hotmelt lamination

Any type of textile and non-textile webs can be laminated together, such as

- woven fabrics
- knitted fabrics
- nonwovens
- membranes, films
- nets, grids
- foams

Textile web laminates are applied in various industrial sectors

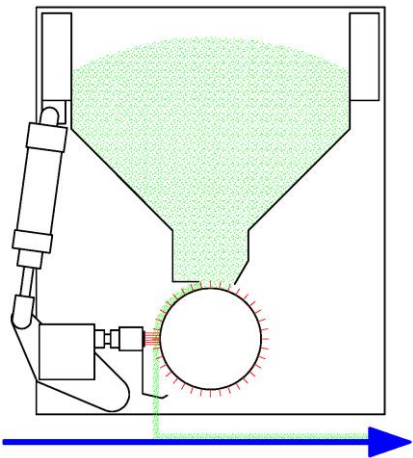
- active wear (outdoor)
- functional and protective clothing
- automotive interiors
- home textiles, upholstery, mattress ticking
- hygiene and medical products
- technical composites, building material, etc.



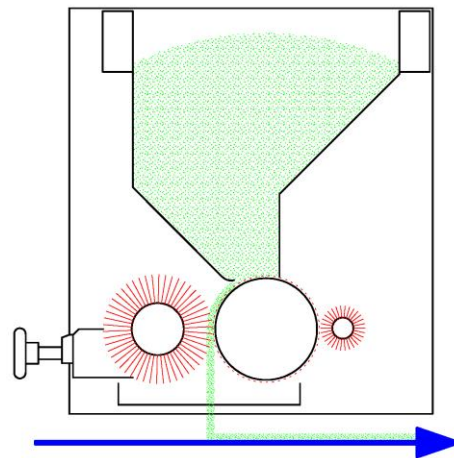
# Powder Technologies



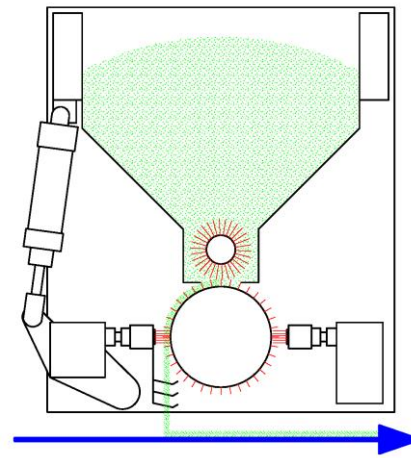
## Various types of scatter units



**Caviscat 200**  
for powder



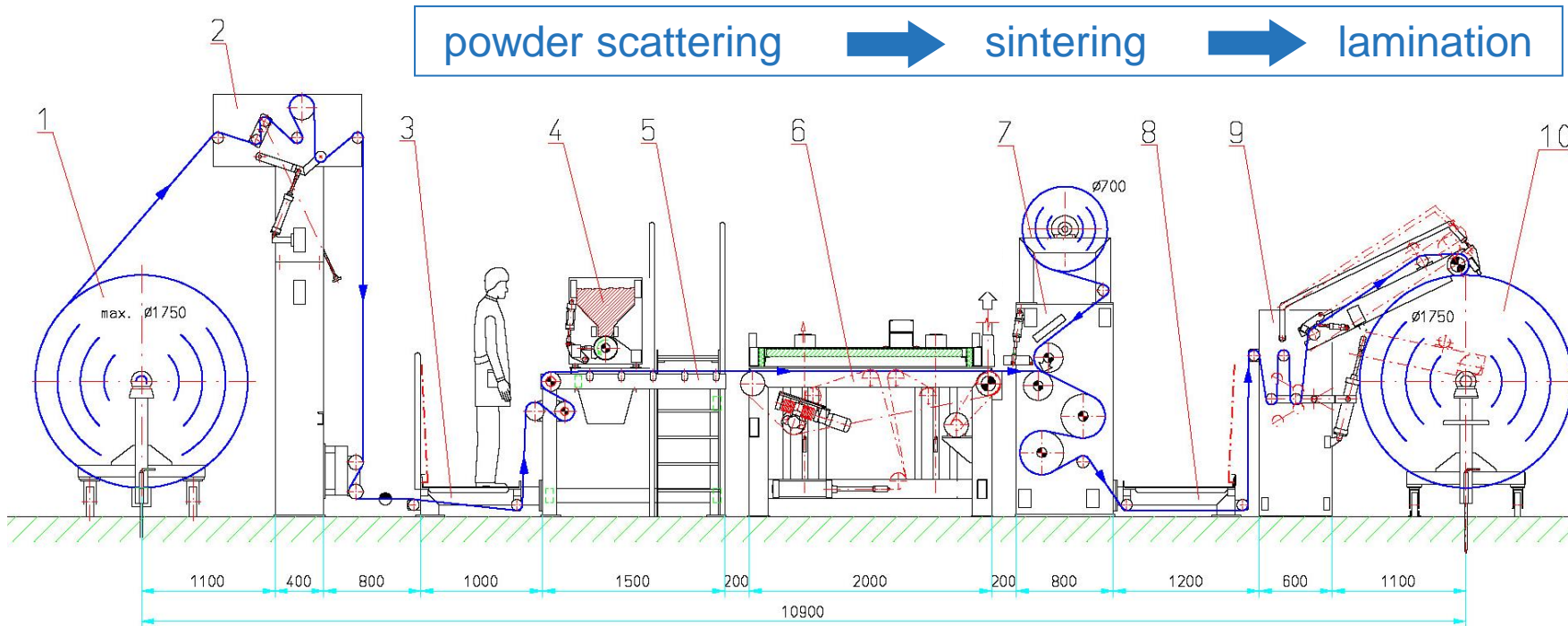
**Caviscat 300**  
for pellets, chips



**Caviscat 400**  
for fine powder, talcum



## Example of a scatter lamination plant

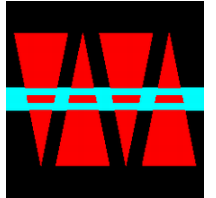


- 1) A-frame unwind
- 2) infeed / web guider
- 3) operator platform
- 4) scatter unit
- 5) platform
- 6) infrared sintering channel
- 7) unwind layer 2
- 8) platform with centering
- 9) periphery winder
- 10) A-frame

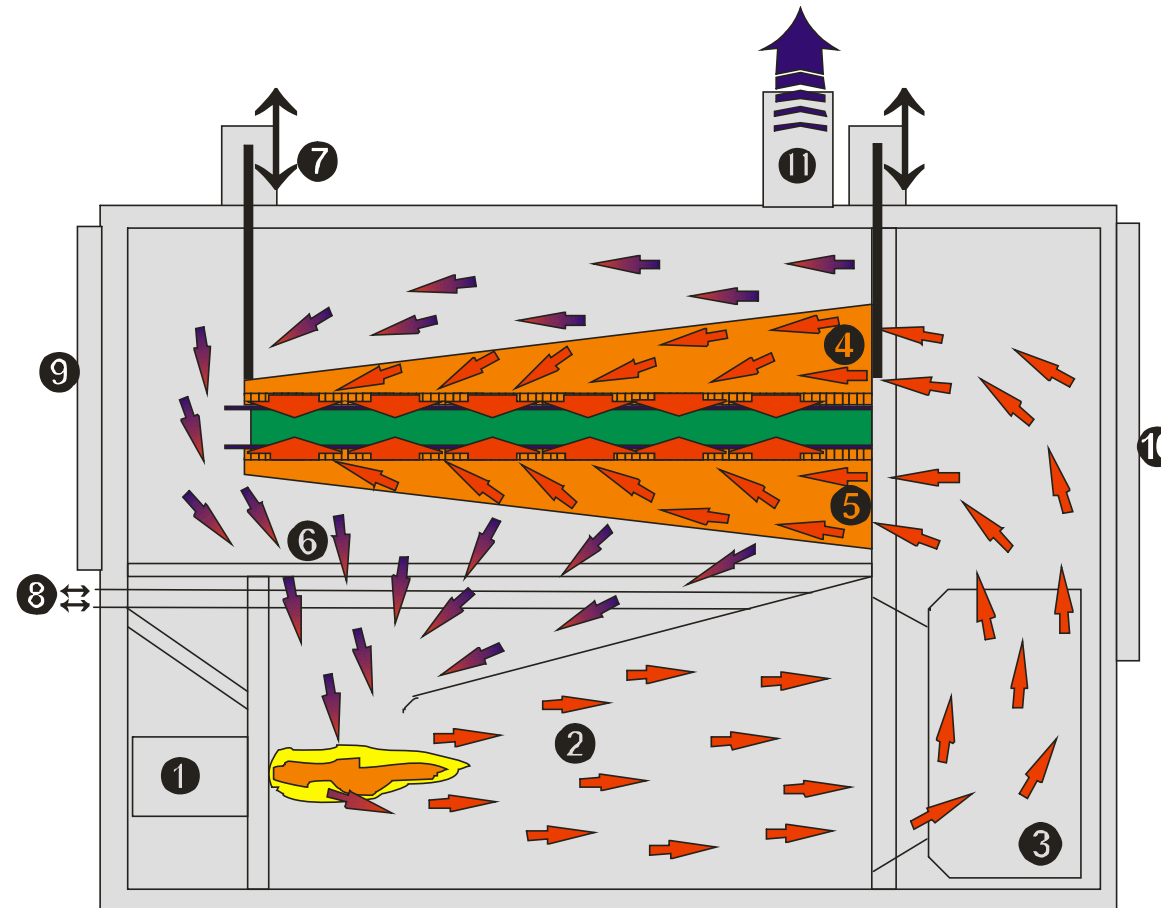
# Nonwoven



## Top performance by proven forced-through-air system



1. gas burner
2. hot air chamber
3. hot air fan
4. top air nozzles
5. bottom air nozzles
6. return air
7. top nozzle adjustment
8. double tier filter
9. door (operator side)
10. door (maintenance side)
11. exhaust air





## SANTATHERM – view from operating side





**ISOBAG**

Air-bag



**ISOBELT**

Conveyor belts



**ISORUBBER**

Rubber-coated fabrics



**ISOSKIN**

Coating for synthetic leather



**ISOLAB**

Pilot lines



**ISOWEAR**

Resin-coated production

Final Technical Textile products used by these brands



TEXTILE FINISHING



Machines for the finishing of knitted fabrics

**SperottoRimar**

Machines for textile finishing

Treatment of open width fabrics:



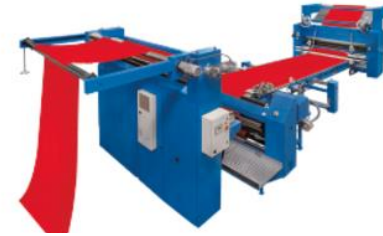
**SANTASHRINK PROGRESS**

Tensionsless drying, shrinking  
and relaxing



**ESC-ENERGY**

Optimized drying for green  
textile process



**SANTACOMPACT-RD**

Levelling, steaming and  
compacting calander



**SANTASYNPACT**

Levelling, steaming and  
compacting

Treatment of tubular knitted fabrics:



**SANTASTRETCH**

Dewatering and overstretching  
/ wet on wet impregnation



**SANTASHRINK  
STANDARD**

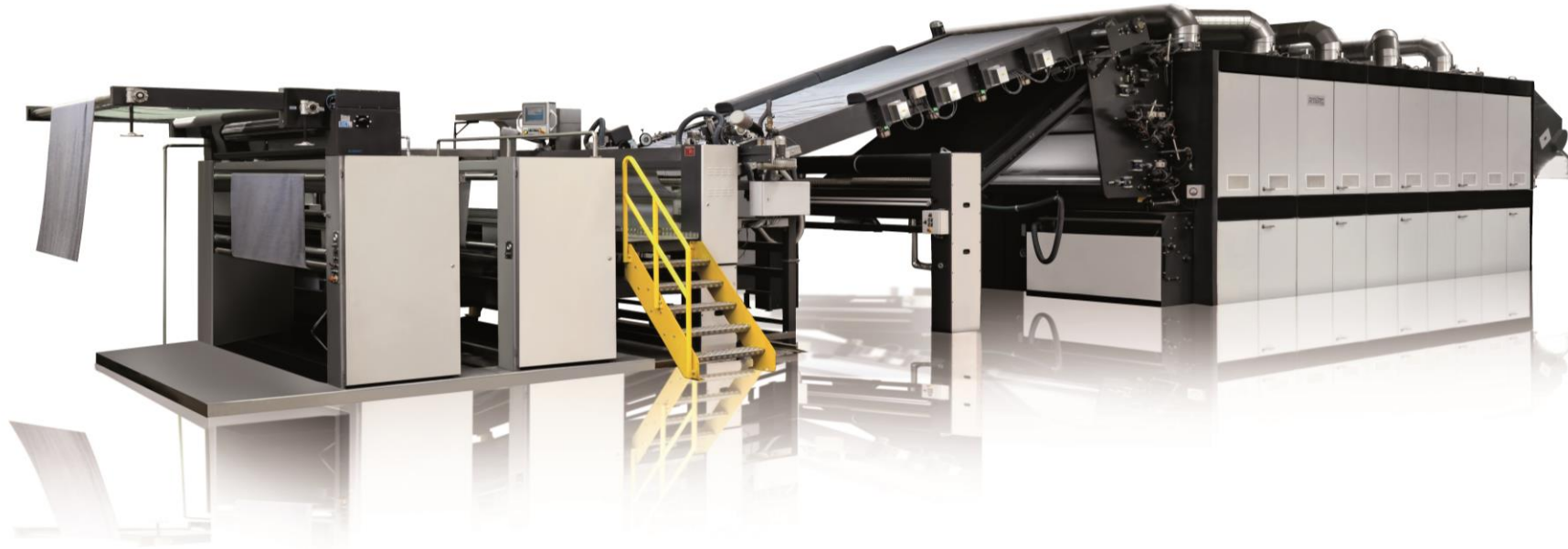
Tensionsless drying, shrinking  
and relaxing



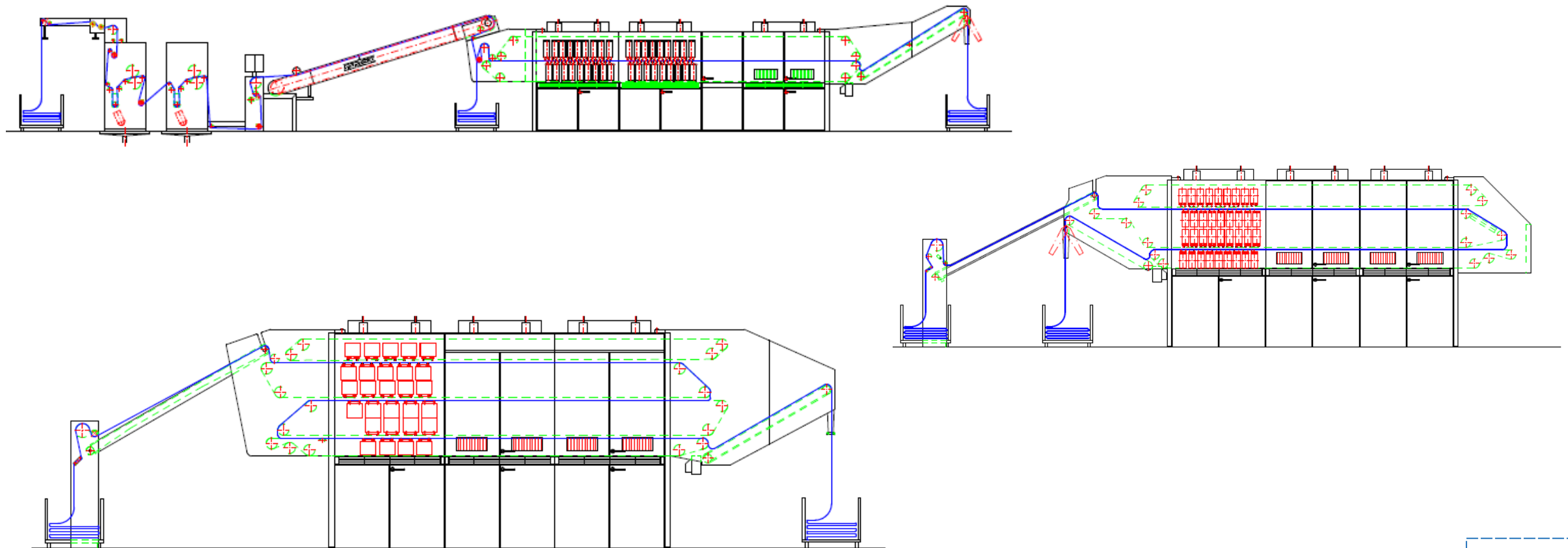
**SANTASPREAD**

Steaming and compacting of  
tubular fabrics

## SANTASHRINK – Tensionless drying of knitted fabrics



## SANTASHRINK – Tensionless drying of knitted fabrics



## SANTASHRINK – Tensionless drying of knitted fabrics

### Technical data and information

- Working speed 0 – 80 m/min
- Working width 160 – 360 cm
- Heating system Direct gas; steam; thermal oil
- Evaporation capacity 200kg H<sub>2</sub>O/h @ ww 240 per chamber
- Standard configuration for tubular treatment
- Progress application for tubular and o/w treatment
- Tension control by load cell



## SANTASHRINK Standard

### Steaming and vibration chamber

- Application of additional steam
- Beating roller to affect vibration
- Relaxation in final stage of drying process



# SANTASHRINK Standard

## Energy saving devices

ESC / Enairsave



Main motor 30 kW - IE3



Automatic lint filter



Pleva moisture control



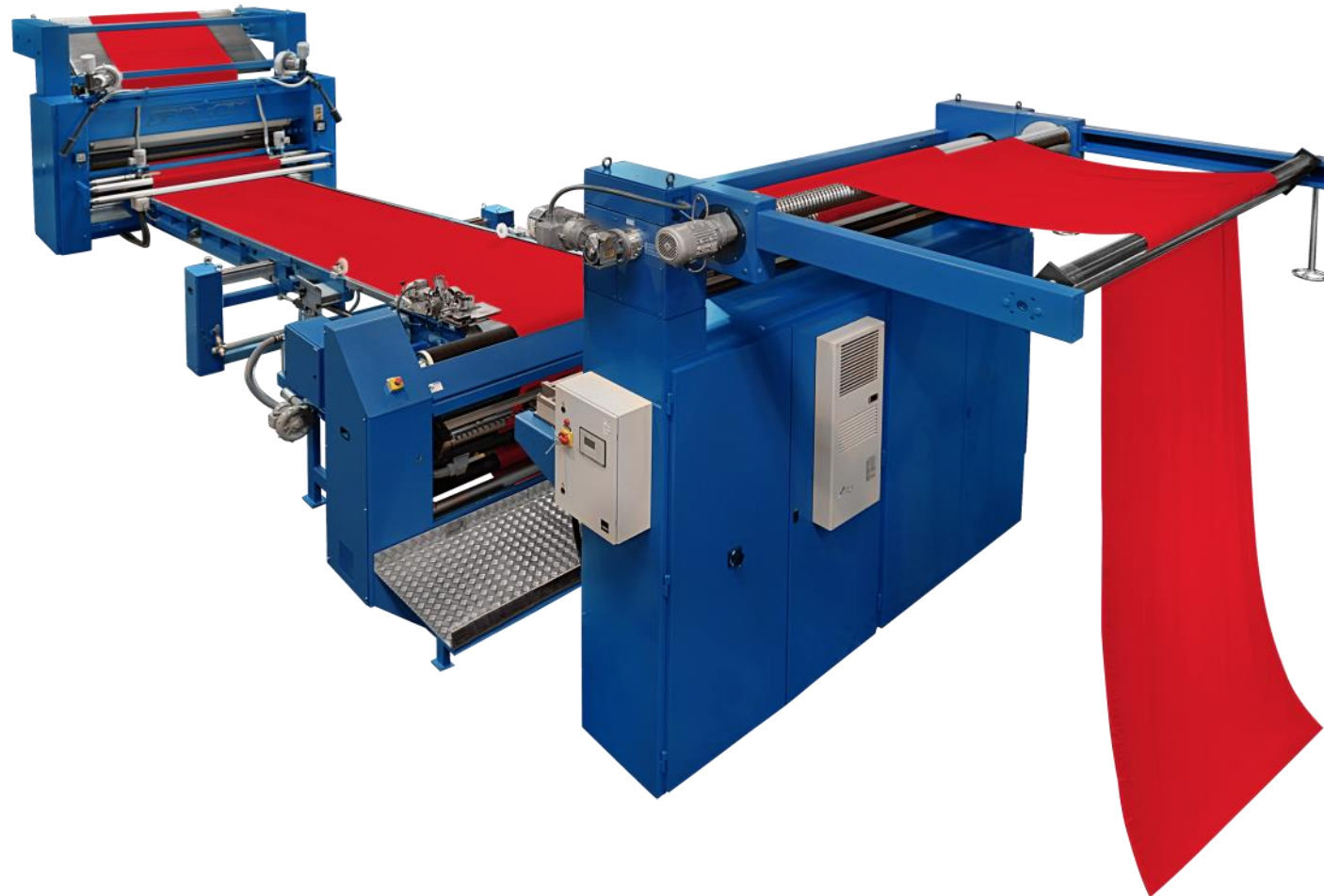
Smart save button



IR - camera

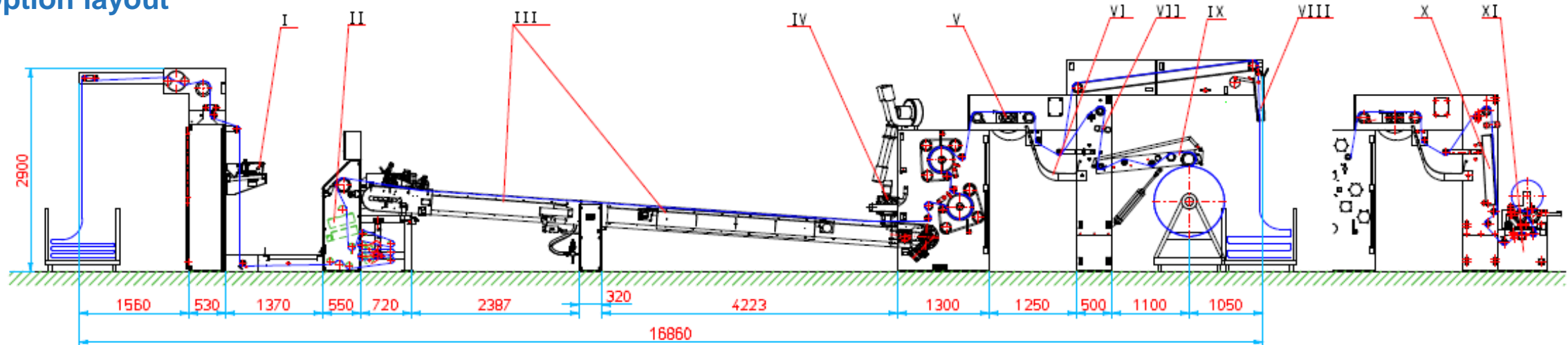


## SANTACOMPACT RD – the high performance felt belt compacting machine



## SANTACOMPACT RD

### Option layout



I. Rotor dampening system

II. Weft straightener

III. Glue wheel incl. edge drying

IV. Edge cutting device

V. Cooling unit

VI. J-Box

VII. Width measurement

VIII. Ionization unit

IX. Peripheral winder

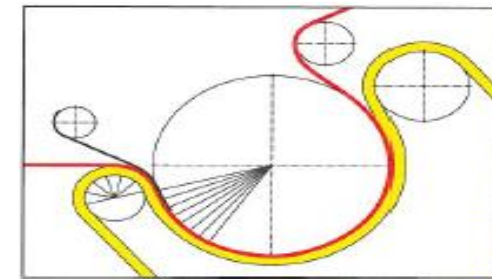
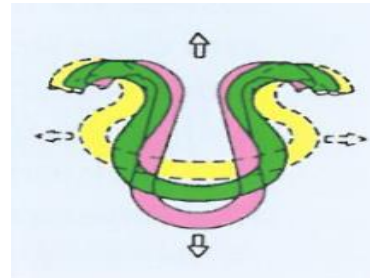
X. Inspection table

XI. Batch winder

## SANTACOMPACT RD

### Steaming and vibration chamber

- Application of additional steam
- Beating roller to affect vibration
- Relaxation in final stage of drying process
- Continuous levelling; steaming; smoothing; compacting process of open width fabrics
- Reduction of permanent residual shrinkage
- Tension control of the fabric by load cell
- Uniform fabric made of cotton or blends
- High constancy in the final width
- Low maintenance costs



## SANTACOMPACT RD

- Inlet frame with centering device E&L and rotor dampening system Weko – view from back side / operation platform
- Stainless steel pin chain equipped with rolls and sliding plates made of high performance plastic
- Guiding rail and pin chain are made of stainless steel
- Left/Right chain system have individual drive each



## SANTACOMPACT RD

- Weko rotor dampening system
- Mahlo automatic weft straightener
- Edge glueing system
- E&L edge trimming and cutting system



## SANTACOMPACT RD

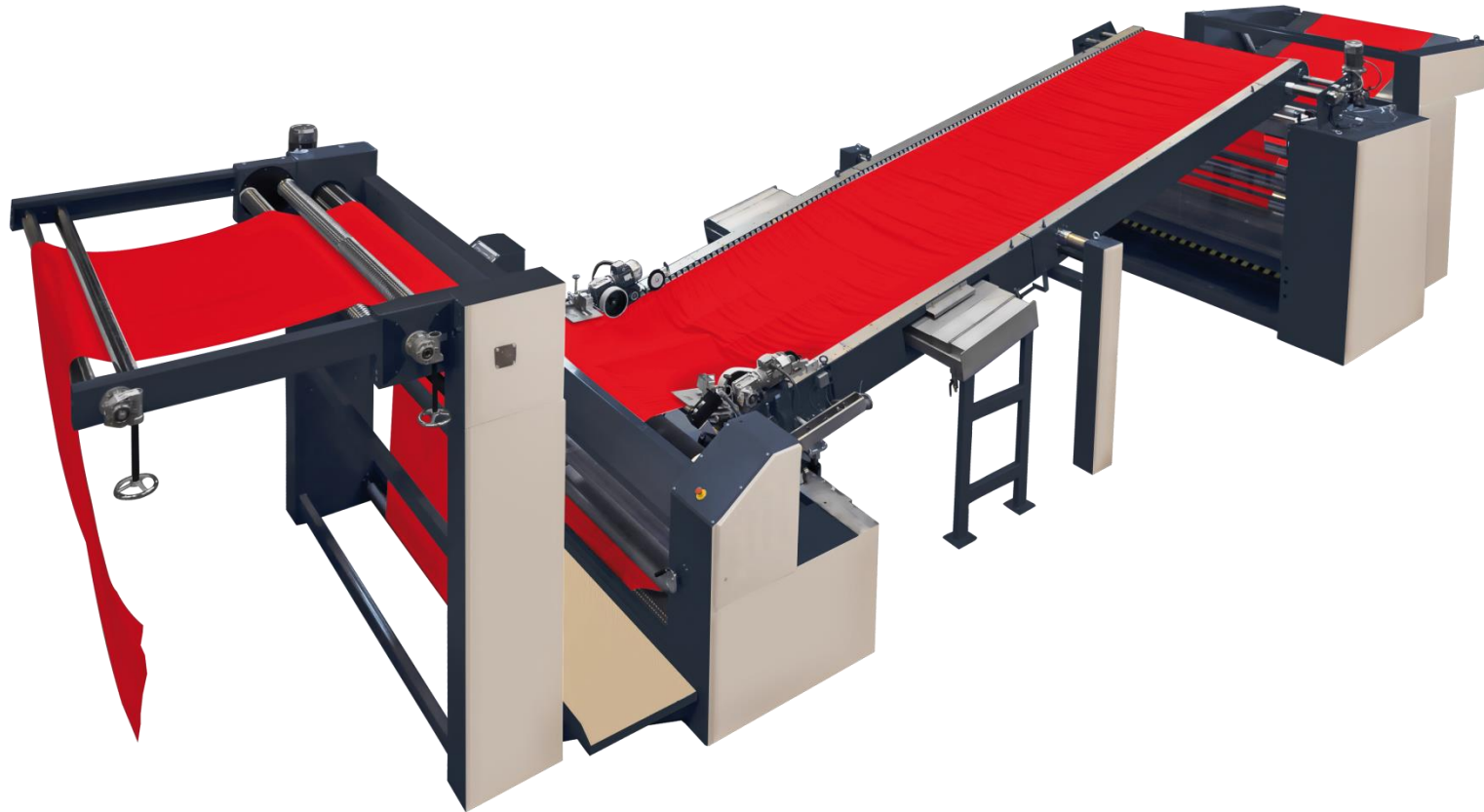
### Technical information

- Working speed up to 50 m/min
- Working width 200 - 260 cm
- Connecting power 45 kW / 75 kW
- Dimension 14 - 17 m



## SANTASYNPACT

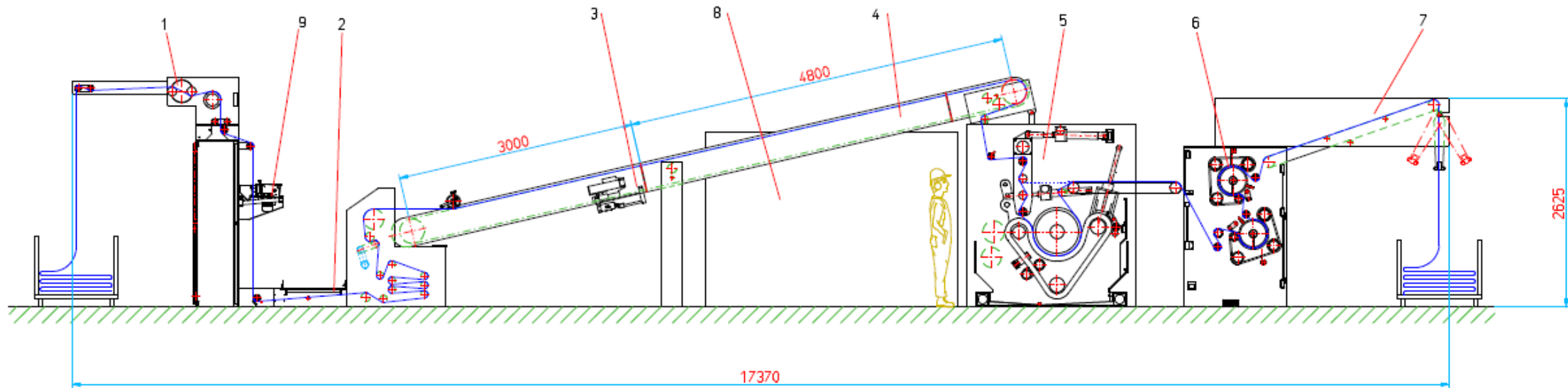
The benchmark in high speed open-width compacting of Knit fabrics



## SANTASYNPACT - What is new ?

→ Combination of rubber belt shrinkage unit and felt compacting station in one line with levelling frame at the entry

[Video](#)

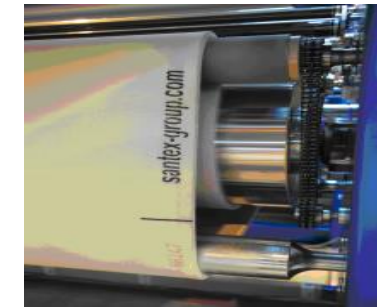
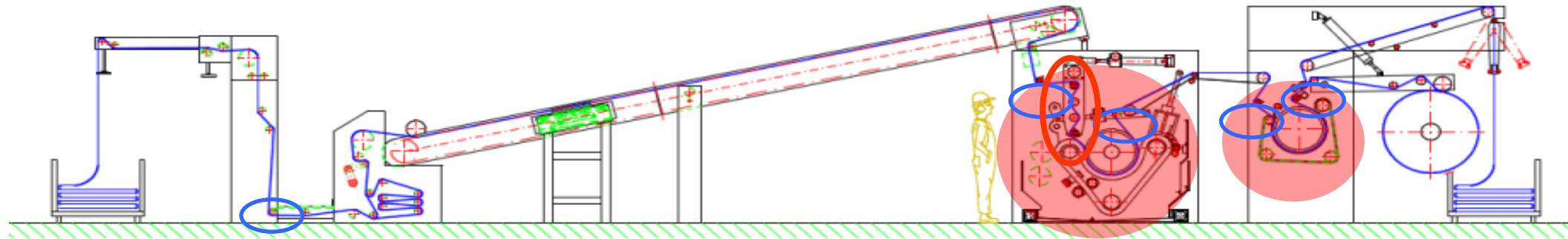


## Why SANTASYNPACT?

- Highest production speed
- Best compacting, lowest residual shrinkage
- Uniform fabric made of cotton or blends
- Smooth hand feel
- Lustrous fabric face
- Lower maintenance costs than shoe compactors
- Very low tension control

## SANTASYNPACT – Highlights

- Rubber + Felt compacting unit
- Tilting vertical arm
- 5 load cells
- High production speed (up to 60 m/min)





## DECOFAST 3.5

Continuous decatizing process under pressure



## MULTIDECAT 2

Continuous decatizing machine



## FIXA

The wool crabbing in continuous by overheated water under pressure



## UNIVERSA

The vaporizing without tension of the fabrics



## PLANA

Efficient atmospheric plasma for natural fibers



## NOVA

Continuous solvent scouring machines for textile finishing

## Final Textile products used by these brands



GREENTECH



SOLWA

Green innovative technologies for water treatment and drying processes



## DRYWA

Integrated system for drying  
sewage sludge



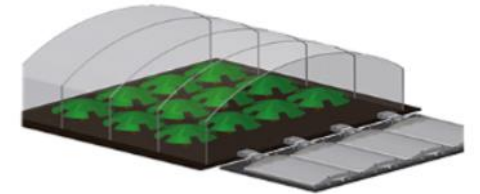
## FOODWA

Innovative system for drying  
food with renewable energies



## SOLWA

System to treat polluted or sea  
water with solar energy



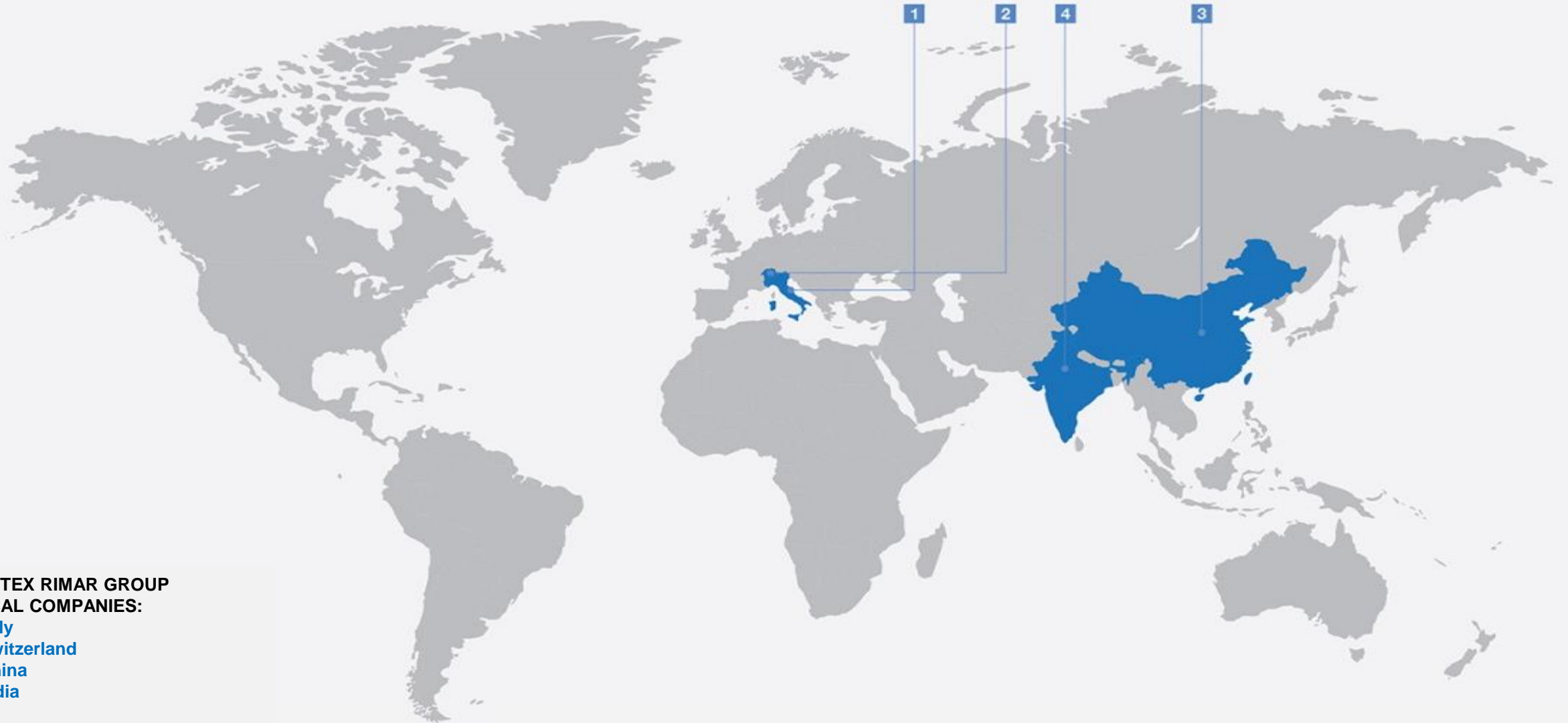
## IRRIWA

Integrated system of farming  
and irrigation in barren areas



2016





**SANTEX RIMAR GROUP**

**LOCAL COMPANIES:**

- 1 Italy
- 2 Switzerland
- 3 China
- 4 India

# Thank you for your attention

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