



EN

GENERAL CATALOGUE

THE COMPANY



BIANCO S.P.A.

For 50 years, Bianco® has been designing and manufacturing machinery with advanced technology for **textile finishing**, the **technical textile industry** and the **non-woven industry**. Founded in 1974, Bianco® is still a dynamic company with considerable history and professionalism. It employs designers with great

experience, passion, absolute dedication and unparalleled technical expertise.

With more than 40,000 installations worldwide and 30 registered patents, Bianco® proudly reaches 50 years of excellence in textiles in 2024.

GREEN FACTORY

The **ACIMIT** (Association of Italian Textile Machinery Manufacturers) **Green Label** is a document that aims to identify and make easily comprehensible the **energetic and environmental qualities** of textile machinery. Awareness of the technological excellence achieved, also with regard to sustainability, is indeed one of the strengths of Bianco®.



SMART FACTORY

Industry 4.0 conveys the concept of **smart factory** which consists of 3 parts:



New production technologies that create collaboration between all the elements present in the production or **collaboration between operator, machines and tools**.



All the "IT infrastructures" and techniques that enable systems to be



All this always with a keen eye on energy consumption, creating more **performing systems** and reducing energy waste according to the paradigms of Sustainable Energy.

EXPERIENCE, PASSION, ABSOLUTE DEDICATION AND UNPARALLELED TECHNICAL EXPERTISE

THE COMPANY

Bianco® offers a range that boasts **more than ten families of machines** and accessories for the textile sector, entirely designed and manufactured in Alba (CN), within the TCN Group® industrial hub. The Bianco® reality

is a qualified expression of **made in Italy**, always at the forefront with its research and development department, constantly engaged in the experimentation of new products, with an ever-increasing technological value.

50
1974-2024

30

• registered patents

55

• worldwide
representatives

10

• TCN Group's member
companies

50

• years of innovation
leadership



• infinite solutions

53.000

• square meters of industrial hub
area

40.000

• installations all over the world

130.000

• square meters of total production site
area

430

• employees of the
industrial group

AEO AUTHORIZATION

Bianco® has obtained the Authorized Economic Operator (AEO) authorization issued by the National Customs Administration to economic operators residing in European countries that meet **high security and reliability requirements** and guarantees a number of direct and indirect benefits including **reduction of customs**

clearance time and costs, facilitates relations with national and international customs authorities, simplifying and speeding up control procedures. The company, in its constant path of growth and internationalization, has understood the need and importance of qualifying as a virtuous company within the international trade chain.

OBTAINED AUTHORIZATION AEO: RECOGNIZED HIGH STANDARDS OF RELIABILITY AND SAFETY



AUTHORIZED ECONOMIC OPERATOR

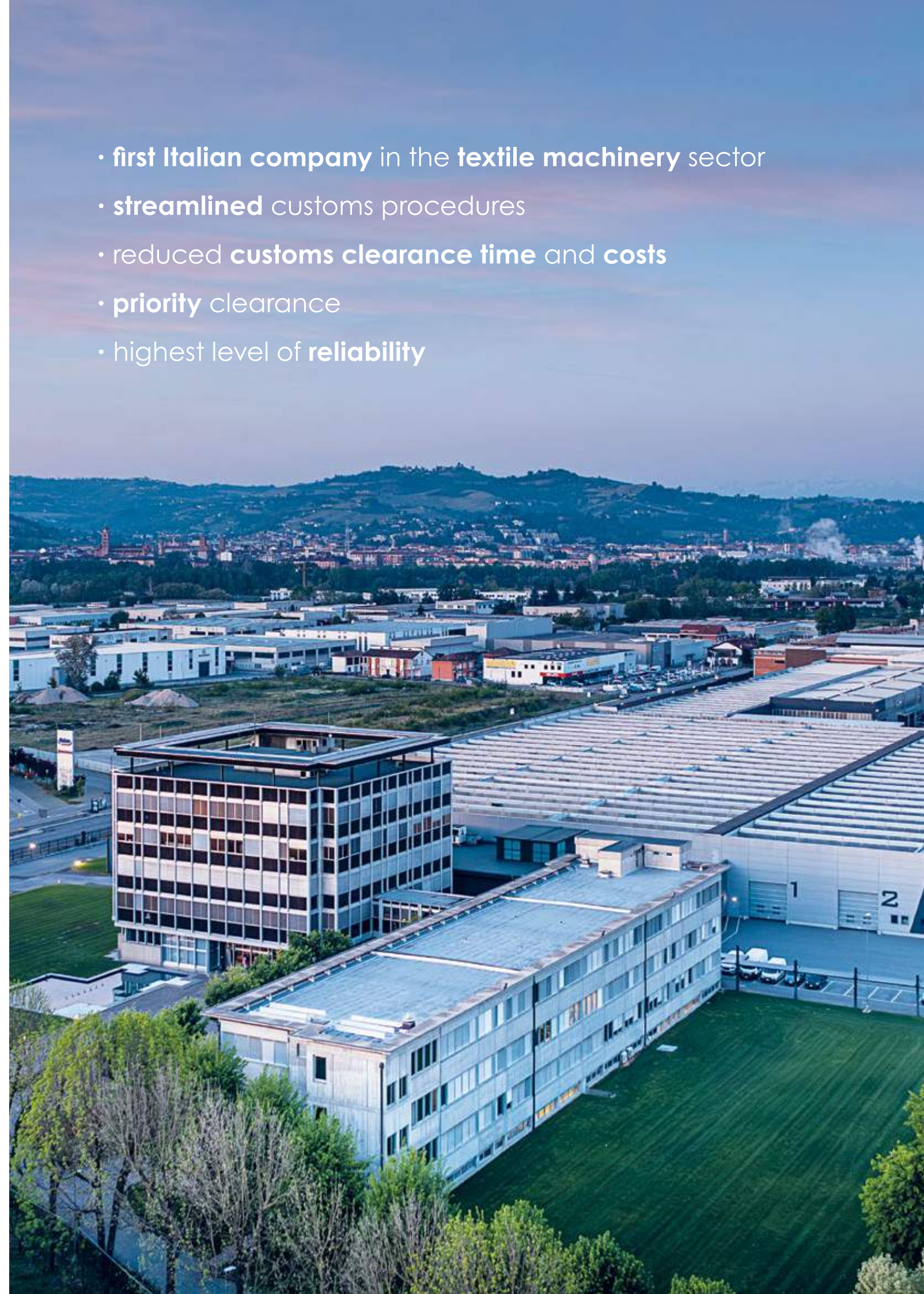
During 2022, Bianco® carried out a review of its operational and administrative business procedures in order to ensure the security requirements under EU regulations to obtain the European AEO Authorized Economic Operator qualification.

Bianco® obtained the authorization from the Customs Agency with the **highest level of reliability** in both the areas of **customs simplifications** (AEOC) and **security** (AEOS), demonstrating the high degree of compliance

achieved.

Bianco® is the first Italian company in the textile machinery sector to have obtained the legal status of AEO Authorized Economic Operator. The authorization guarantees Bianco® an even higher standing at a global level, consolidating its business leadership, which has been active for 50 years now, and facilitating its expansion in international markets as it is recognized both in the European Union and in important non-EU countries.

- **first Italian company** in the **textile machinery** sector
- **streamlined** customs procedures
- reduced **customs clearance time** and **costs**
- **priority** clearance
- highest level of **reliability**



bianco

A HISTORY 50 YEARS LONG



A HISTORY OF SUCCESS

The meeting between Giuseppe Bernocco and his friend and lifelong partner Sebastiano Astegiano kicked off, from the purchase of a first used lathe in 1990 with the birth of TCN, what is now one of the largest industrial hubs in the Alba area.

Since 2008 Bianco has been part of TCN Group, a leading industrial group in various fields of advanced mechanics, food and sustainable mobility, which has provided excellent expertise, enabling Bianco® to continue its success story. A path made of ideas, challenges, commitment and great satisfaction.



1990

• Birth of TCN

2001

• TCN Vehicles Division

2010

• Bianco Engineering

2016

• Thok

2017

• TCN Group new headquarter

2018

• Mandrile Melis

2021

• Streglio

2014

• Galup

2017

• Golosi di Salute

2021

• Albamobility

2008

• Bianco Textile

2018

• Pasticceria Cuneo



TCN GROUP

TCN Group is the cutting-edge industrial hub grouping the activities of **Bianco®** (textile, packaging and industrial automation machinery manufacturing), **TCN** (precision machining), **TCN VD** (automotive and motorcycles), **Thok E-Bikes** (pedal-assisted mountain bikes), **Albamobility** (electric quadricycles), **Galup** (recurrence cakes and leavened goods), **Golosi di Salute** (confectionery products), **Pasticceria Cuneo** (gluten-free desserts), **Mandrile Melis** and **Streglio** (chocolate).

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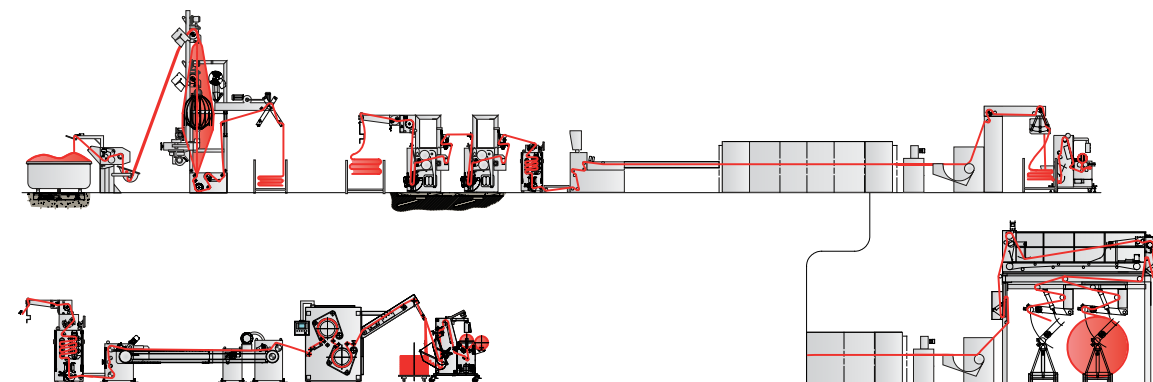
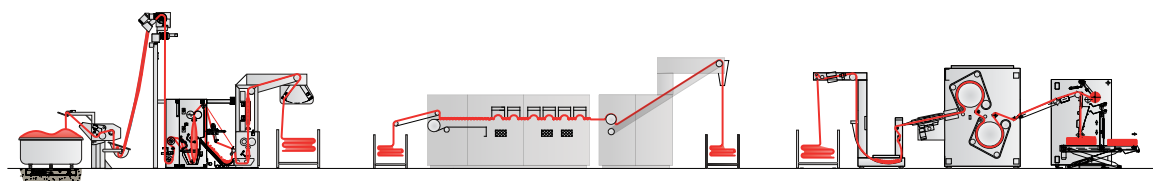
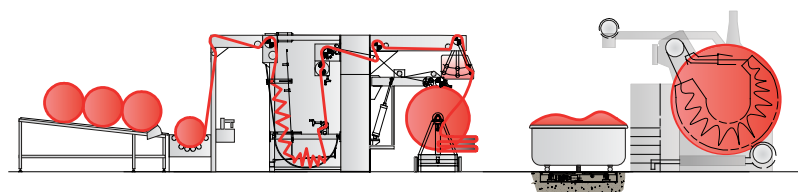
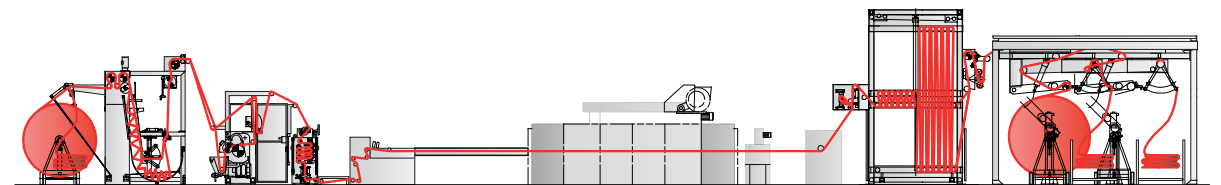
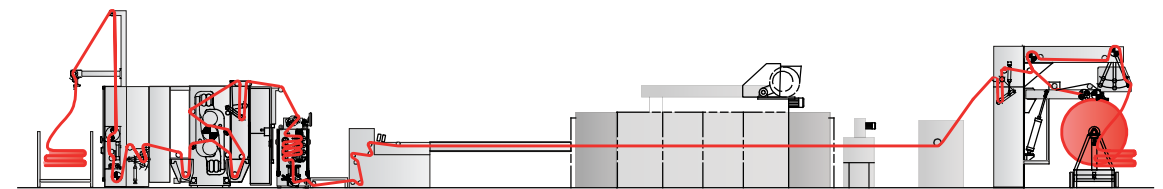
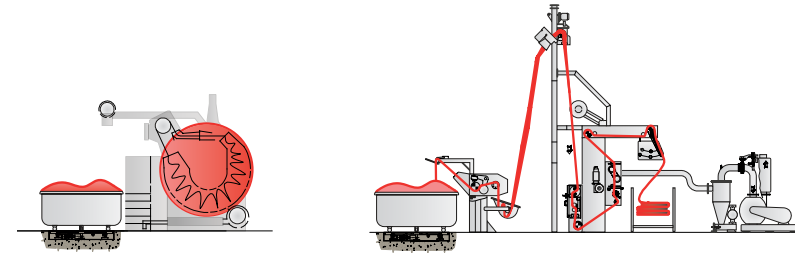
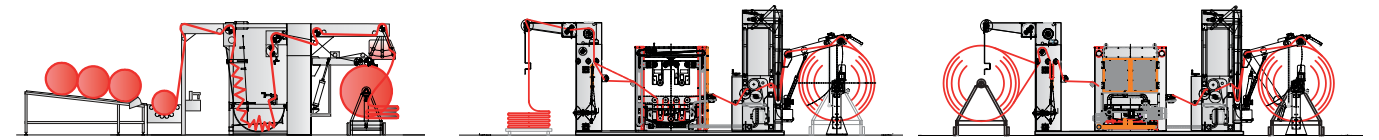
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bianco

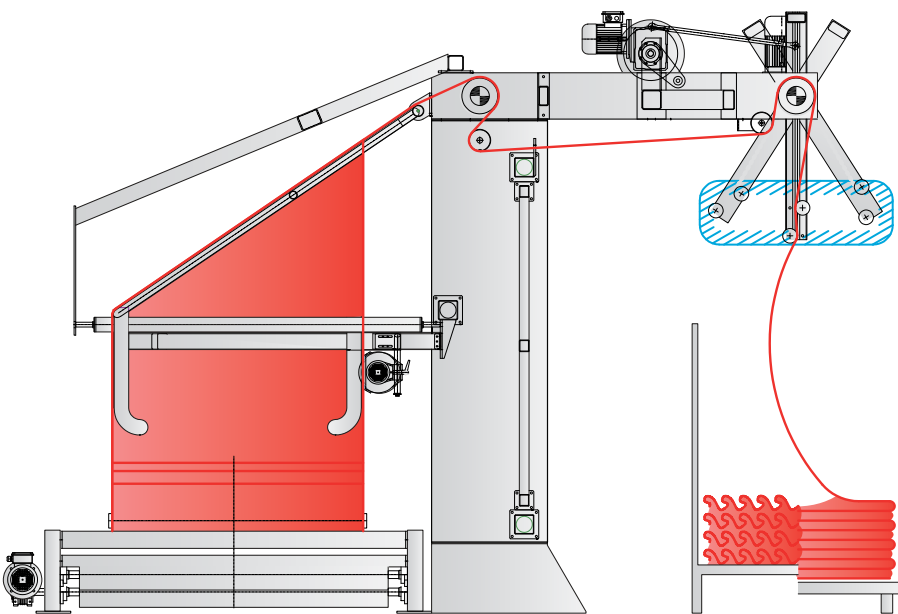
KNITTING PROCESSING



WOVEN PROCESSING

 Greige fabric cutting

SLITTER ON FOLD



 Greige fabric cutting

The greige slitting lines are used to cut the tubular fabric before the finishing process



Description

Machine for cutting and opening greige tubular fabrics coming from circular looms.

DETAILS

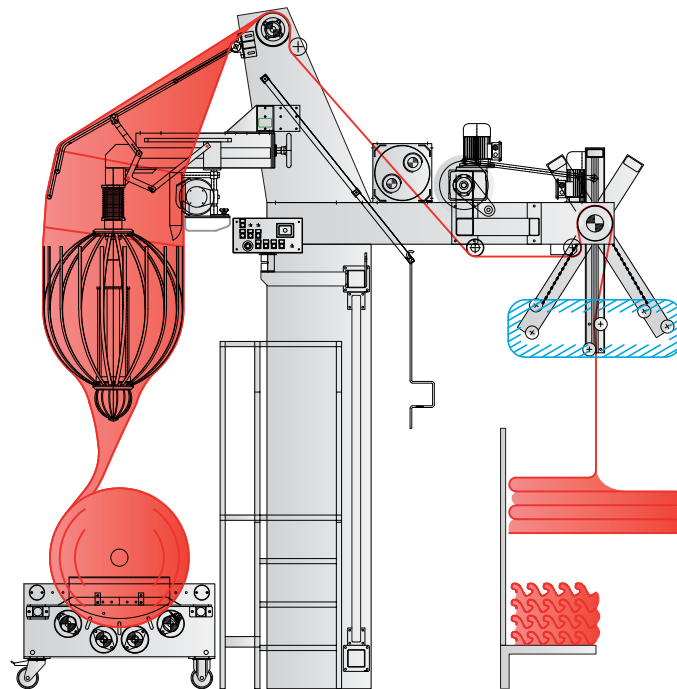
Sintered circular blade: the cutting take place on the fold of the fabric by a circular blade, with adjustable width position.

Inlet: from fold or cradle (optional).

Outlet: small roll winder or plaiter.

✂ Greige fabric cutting

UPSIDE DOWN SLITTER



✂ Greige fabric cutting

The greige slitting lines are used to cut the tubular fabric before the finishing process



Description

Machine for cutting and opening greige tubular fabrics coming from trolley or small roll.

DETAILS

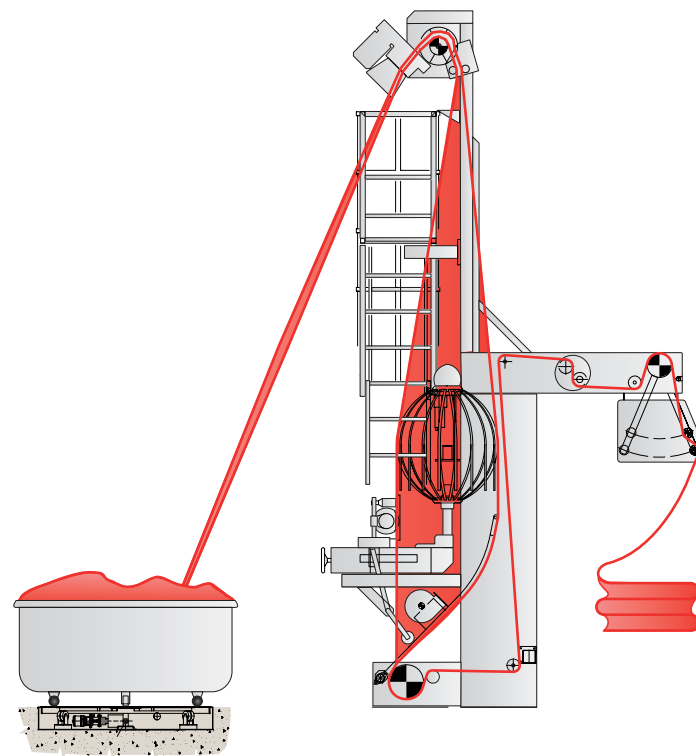
Upside down basket: this machine allows to process fabrics coming from the trolley, overall reduction of the machine dimension and less tension of the fabrics. Basket diameter adjustable from 290 to 800 mm. Hot cutting system available (optional).

Sensor: Bianco® SK6 drop needle detector for regulating the basket and high working speeds with maximum precision.

Outlet: small roll winder or plaiter (optional).

✂ Greige fabric cutting

SLITTER WITH TRIANGLE



✂ Greige fabric cutting

The greige slitting lines are used to cut the tubular fabric before the finishing process



Description

Machine for cutting and opening the tubular knit fabrics, designed for work in automatic way at high speed operation.



DETAILS

Detwister: made in stainless steel, guarantees excellent untwisting of the fabric rope without creating elongation.

Triangle: it allows the optimal opening of the tubular after the cutting operation.

Basket: harmonic steel slats with wheels. Adjustable diameter from 290 to 800mm.

Sensor: Bianco® SK6 drop needle detector for regulating the basket and high working speeds with maximum precision.

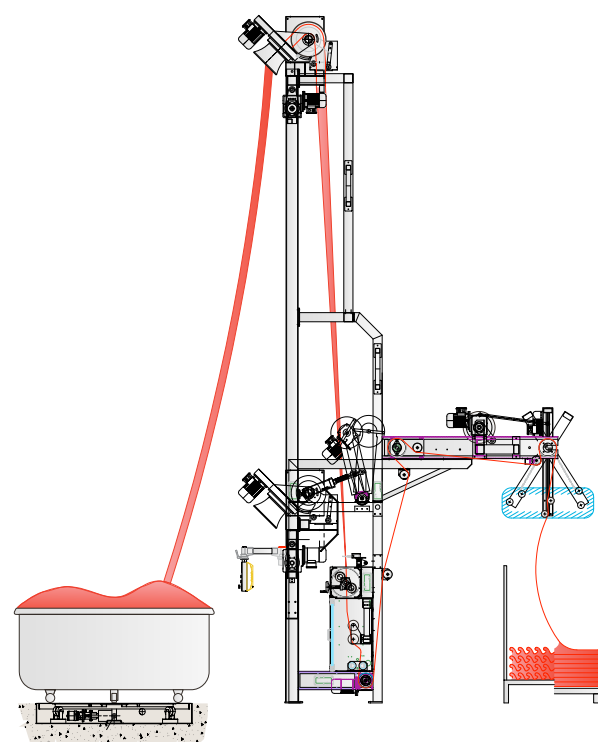
Spreading unit scroll rollers 360° (optional): used for the perfect distension of the fabric.

Outlet: lever plaiter.

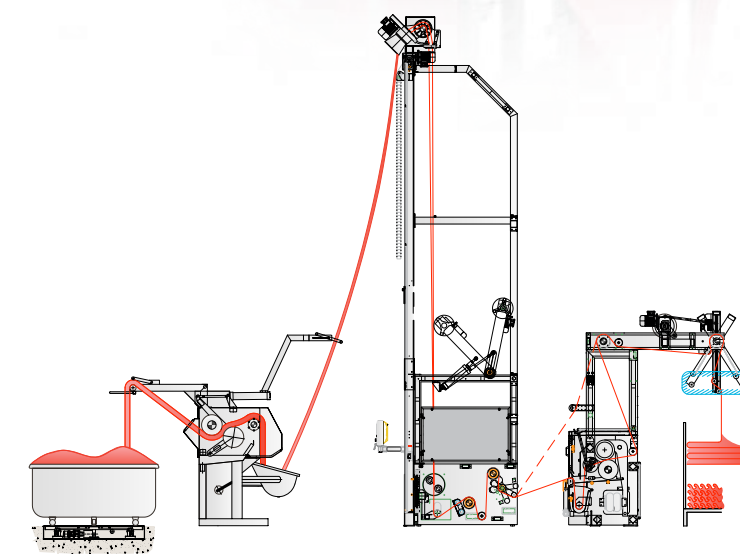


Wet fabric slitting

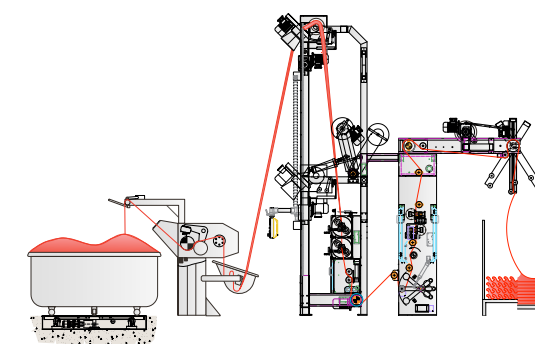
ROPE OPENER LINE



Rope opener line



Rope opener line with squeezing padder



Rope opener line with hydro-extractor



Wet fabric slitting

Lines for opening and cutting the tubular fabrics after bleaching, washing, dyeing or reprocessing operations

ONLINE



Description

Machine for opening the woven and tubular knit fabrics, designed for work in automatic way at high speed operation.

DETAILS

Height adjustable frame: it makes easier the threading and maintenance operations.

Detwister: made in stainless steel, guarantees excellent untwisting of the fabric rope without creating elongation.

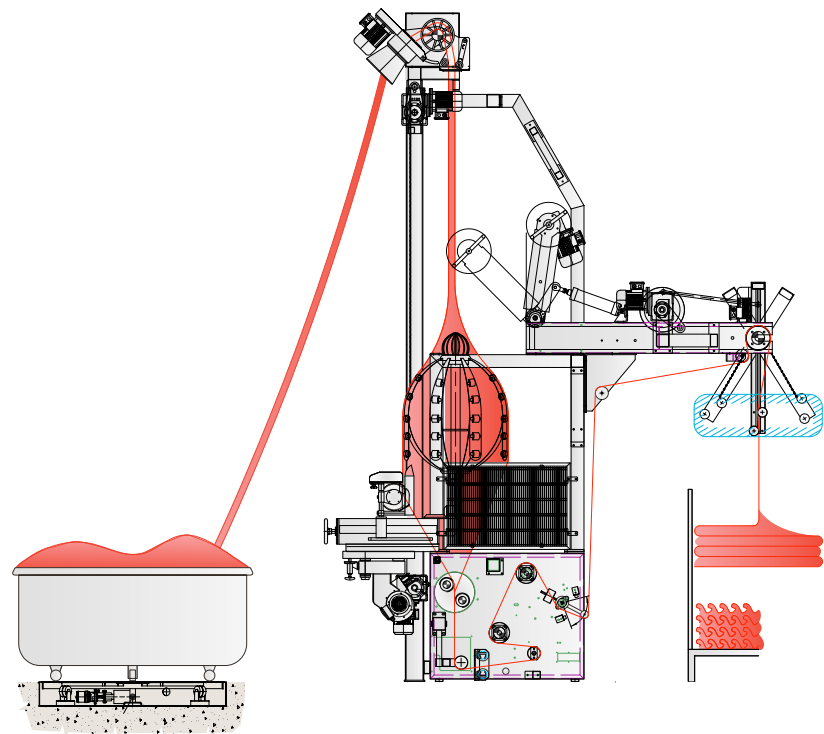
Pendular guider: it guarantees excellent distension and

centering of the fabric, thanks to the Bianco® FLUO sensor.

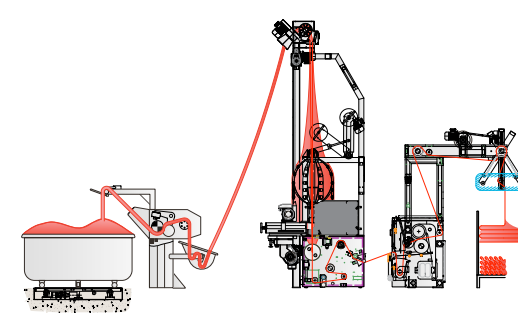
Multifunction plaiter: it offers the possibility of selecting, from the operator panel, the type of plaiter according to production needs: lever or reel.

Wet fabric slitting

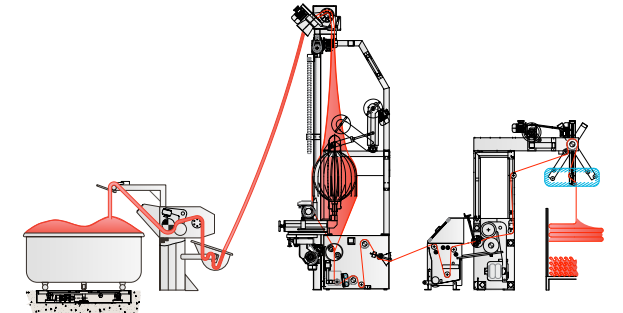
ROPE OPENER & SLITTING LINE



Rope opener & slitting line



Rope opener & slitting line with squeezing padder



Rope opener & slitting line with squeezing padder and TNK washing tank

Wet fabric slitting

Lines for opening and cutting the tubular fabrics after bleaching, washing, dyeing or reprocessing operations



Description

Machine for opening and cutting the woven and tubular knit fabrics, designed for work in automatic way at high speed operation.

DETAILS

Basket: new basket with harmonic steel slats with wheels. Adjustable diameter from 290 to 900mm.

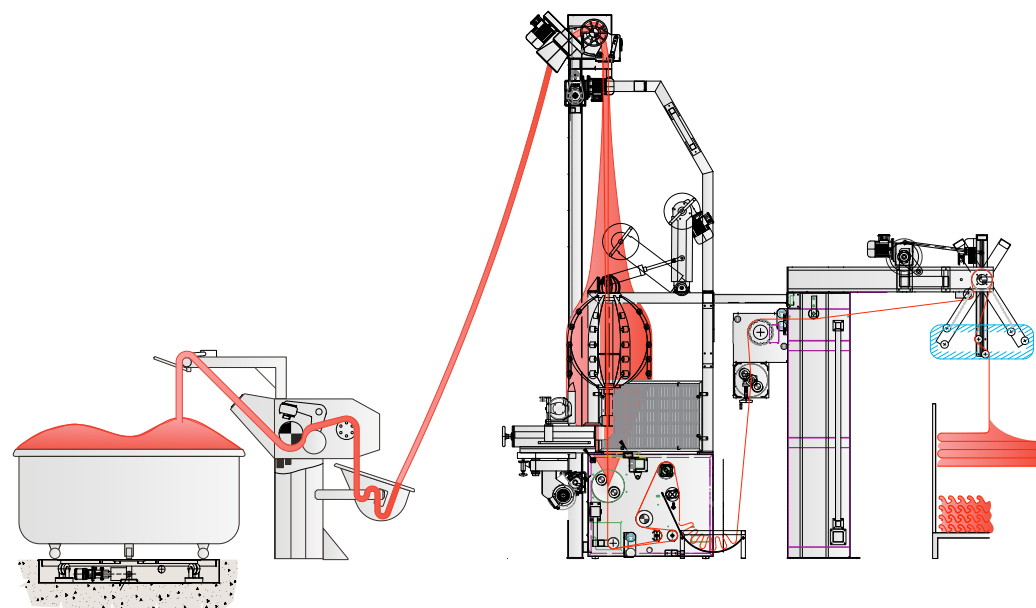
Sensor: Bianco® SK6 drop needle detector for regulating the basket and high working speeds with maximum precision.

Dragging unit: double rollers motorized and covered special rubber tape for fabric advancement.

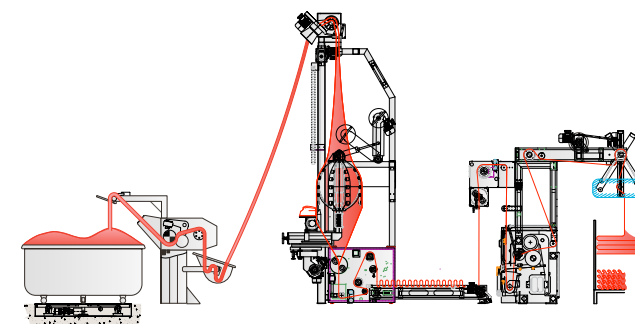
Loop control (optional): synchronization system by photocell without contact with the fabrics to avoid elongation.

 Wet fabric slitting

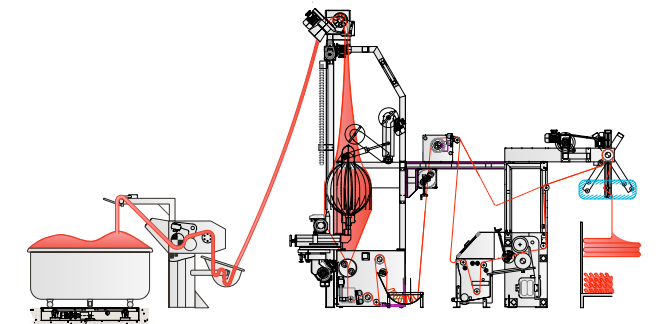
ROPE OPENER & SLITTING LINE TENSION LESS



Rope opener & slitting line tension less with relax scray



Rope opener & slitting line tension less with relax scray and squeezing padder



Rope opener & slitting line tension less with relax scray, TNK washing tank and squeezing padder

 Wet fabric slitting

Lines for opening and cutting the tubular fabrics after bleaching, washing, dyeing or reprocessing operations



Description

Machine for opening and cutting the woven and tubular knit fabrics in automatic way at high speed operation, designed to reduce the tension during the cutting process.

DETAILS

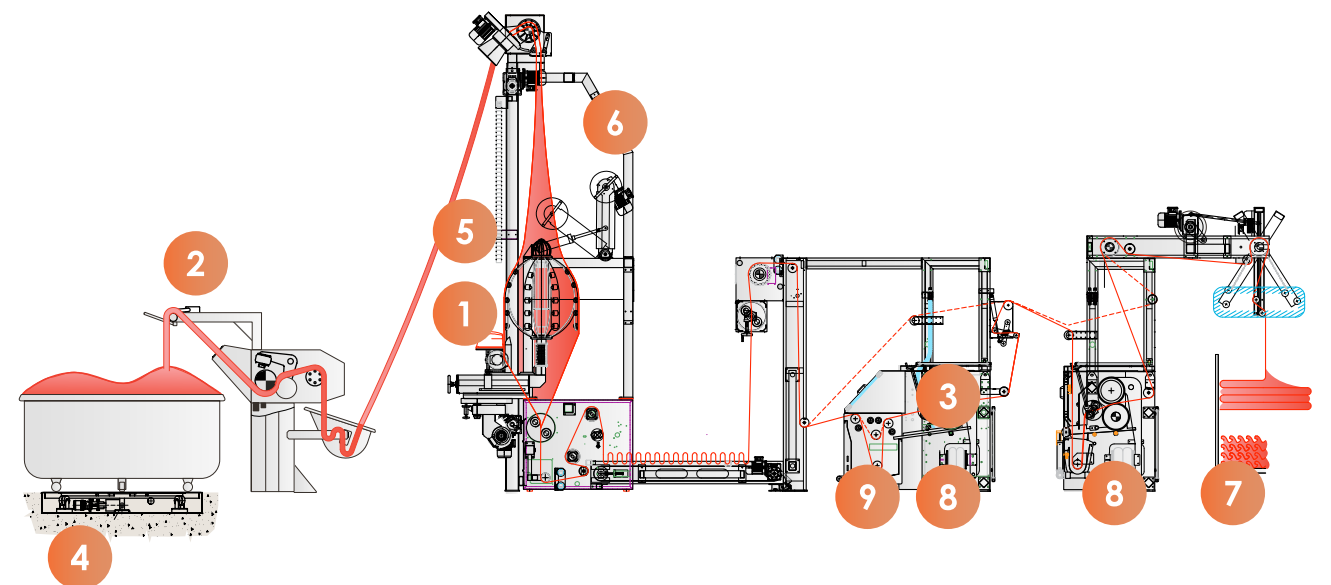
Basket: new basket with harmonic steel slats with wheels. Adjustable diameter from 290 to 900mm.

Sensor: Bianco® SK6 drop needle detector for regulating the basket and high working speeds with maximum precision.

Driven relaxation belt: allows relaxation of the fabric after the cutting operation

Relax scray: allows fabric relaxation for a short time. Smaller size than the belt.

OPTIONAL ACCESSORIES



SKM2 sensor

The SKM2 sensor is a multifunction system that integrates two different types of Bianco sensor: the SK6-sensor, for drop needle detection, and the STD1-sensor, for column inclination detection. Based on the detected data, the rotation of the basket is adjusted to move the column in line with the slitting disc blade or to follow a pre-set inclination.

1



Jbox rope squeezer

Bianco® JBOX allows to reduce the amount of water present in the rope, in order to reduce the weight of the fabric and prevent it from elongation. Available in the BIG version for heavy fabrics and big volume.

2



Open width hydro-extractor

Liquid suction system with vacuum pump. Ideal for synthetic fabrics and wool, with the option to use one or two suction tubes. It guarantees low residual humidity without compromising fabric quality.

3



Turntable

Made of stainless steel, it makes easier the untwisting of the fabric by operating in synchrony with the detwister.

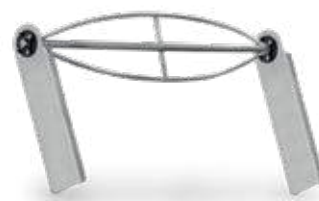
4



Double knife system

Thanks to two independent knives, it allows to cut the desired part of the fabric which will then be removed by the suction unit.

5



Beater

Made of stainless steel, it facilitates the opening of the fabric. With adjustable speed by inverter.

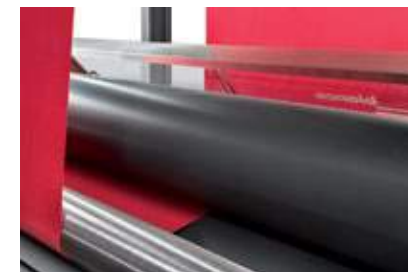
6



Winder arm

Machine for winding fabrics into large rolls, both tangential and axial.

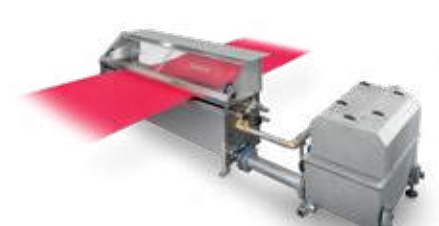
7



Dewatering Open Width Squeezing Padder

Allows to extract the water present in the fabric, in order to guarantee the lowest residual humidity.

8



TNK EVO washing tank/ EVO PLUS

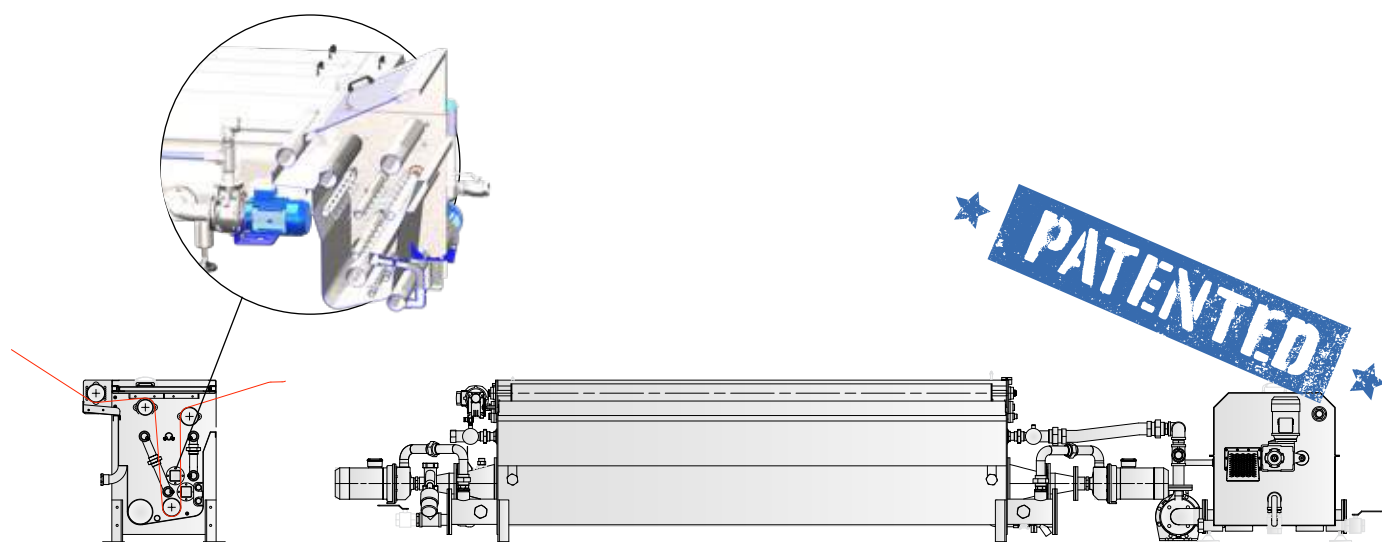
Tank removes residuals of enzymatic treatment so that the fabric is clean for subsequent drying processes.

9

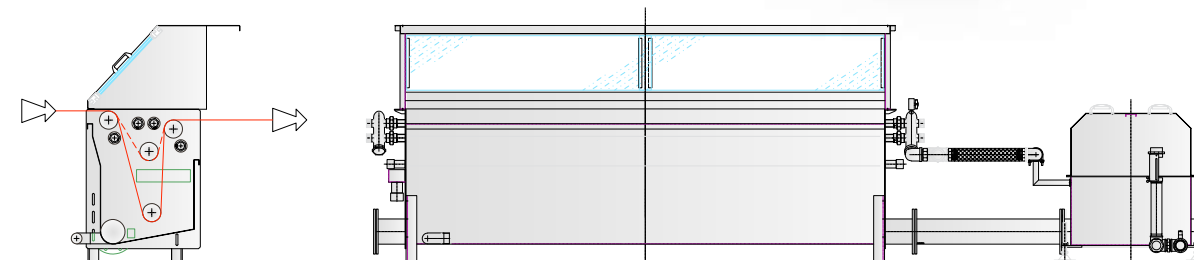


Eco-clean

TNK WASHING TANK FOR ENZYMATIC WASTE



TNK EVO PLUS washing tank for enzymatic waste



TNK washing tank for enzymatic waste



Eco-clean

Eco-sustainable washing lines for enzymatic residue removal, scouring, impregnation for desizing process

ONLINE



Description

For cleaning the fabric after enzymatic treatments. It can be installed on the Rope opener & slitting lines, or at padder in the Stenter inlet.

DETAILS

Tank: made of stainless steel with 4 or 6 spray tubes.

Nozzles: they are distributed throughout the machine width. The pressure of the nozzles can be adjusted according to the type of fabric.

Vacuum bar under the bath (model Bianco® TNK EVO PLUS):

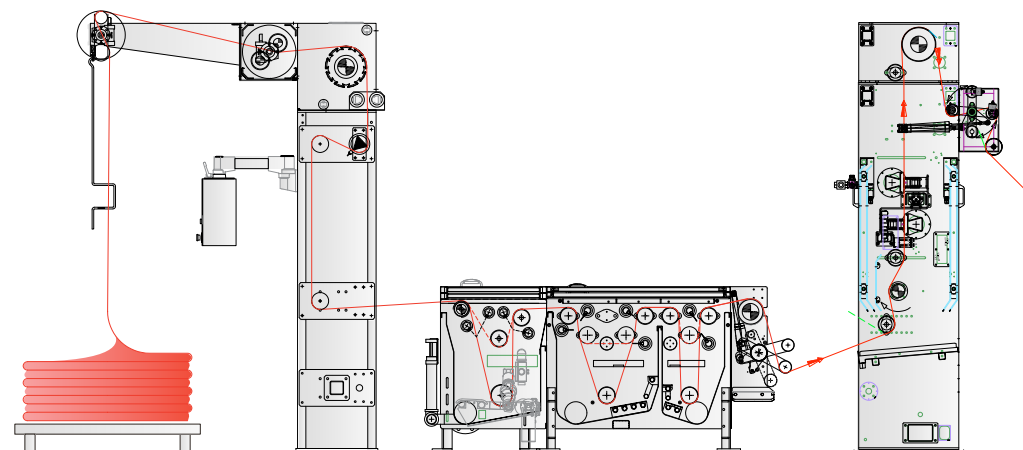
it increases the impregnation thanks to the high exchange between chemical product and fabric, also obtaining a better cleaning of the same.

Rotary filter: self-cleaning system capable of filtering residues and impurities; the entire amount of water is reused.

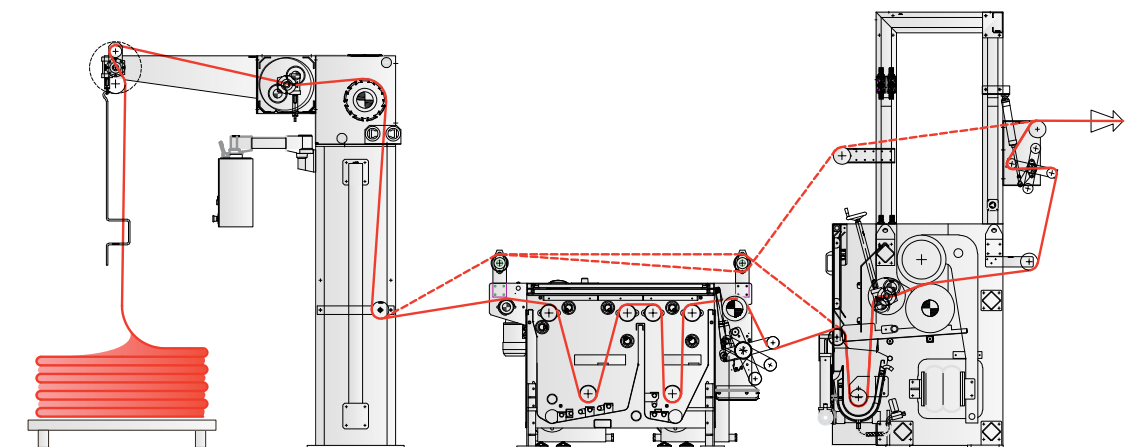


Eco-clean

HAPPY SCOUR



Happy Scour EVO PLUS with hydro-extractor



Happy Scour with squeezing padder



Eco-clean

Eco-sustainable washing lines for enzymatic residue removal, scouring, impregnation for desizing process

ONLINE



Description

Used to remove weaving oils, in open fabrics as in-line preparation for heat setting or drying process.

DETAILS

Heated tank: the entire bath is heated to ensure uniform removal of oils and optimum relaxation of the fibers.

Nozzles: specially designed to ensure uniform washing performance. The pressure of the nozzles can be adjusted according to the type of fabric.

Rotary filter: self-cleaning system capable of filtering

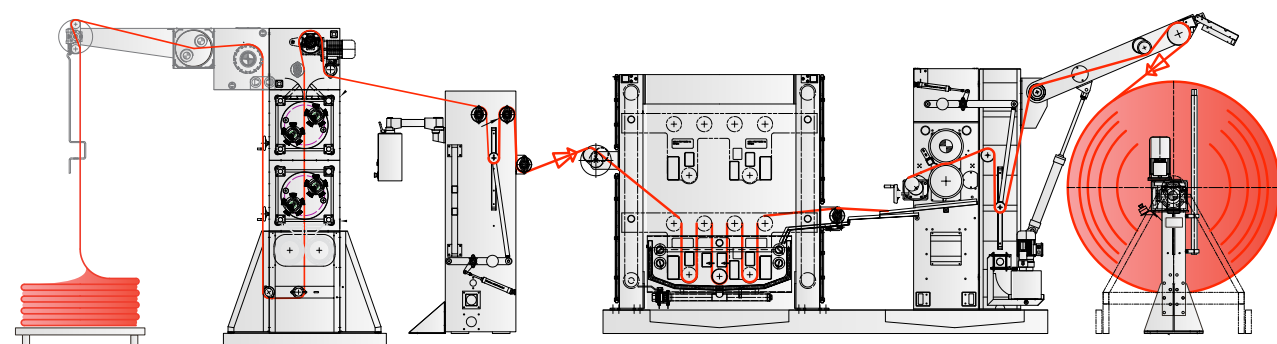
residues and impurities; the entire amount of water is reused.

TNK washing tank for enzymatic waste (model Bianco® HAPPY SCOUR EVO PLUS): the machine removes, through spray nozzles, the residues of the enzymatic treatment. The entire amount of water used during the washing process is filtered and reused.

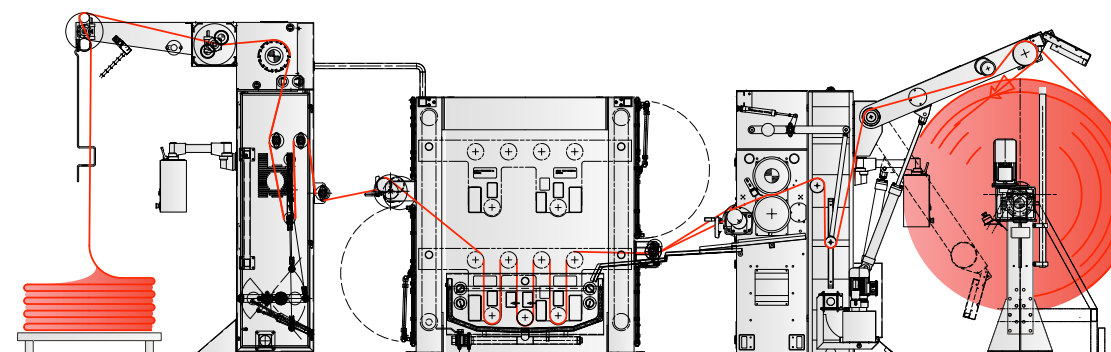


Eco-clean

INNO-PAD IMPREGNATION SYSTEM



INNO-PAD system with brushing machine



INNO-PAD system



Eco-clean

Eco-sustainable washing lines for enzymatic residue removal, scouring, impregnation for desizing process



Description

It allows the preparation of cellulosic fibers using an impregnation system. Combined with the INNOVA preparation recipe, it makes possible to carry out bleaching treatments directly on the greige material.

DETAILS

Centering: Bianco® DOGAL with slatted cylinder and Bianco® FLUO sensor for perfect alignment.

INNO-PAD impregnation tank: multi-path impregnation tank made of AISI 316L steel. Inside, two suction bars increase the impregnation thanks to the high exchange between chemical product and fabric. With steam

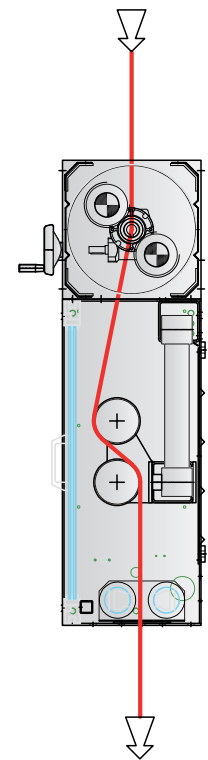
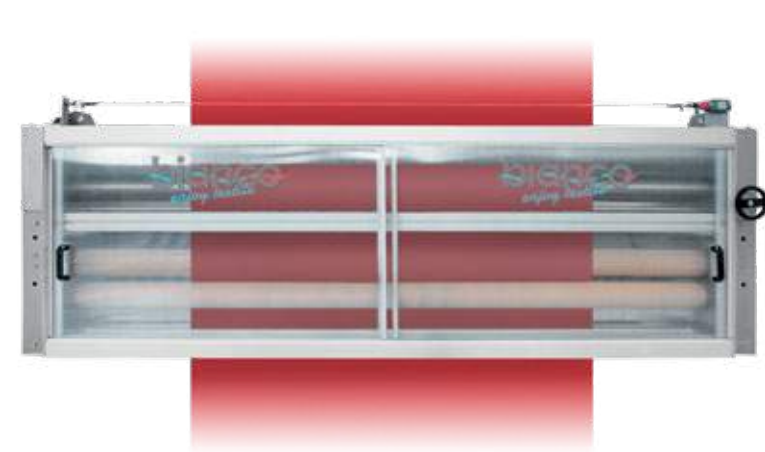
pipes for heating the tank itself and the bath.

Impregnation open width squeezing paddler: it guarantees a homogeneous squeezing even at low pressures. Under the rollers there is a tank for collecting the resulting liquid from the squeezing.



Fabric guides

KB10 FABRIC GUIDE



Description

System for distension and centering the fabric.

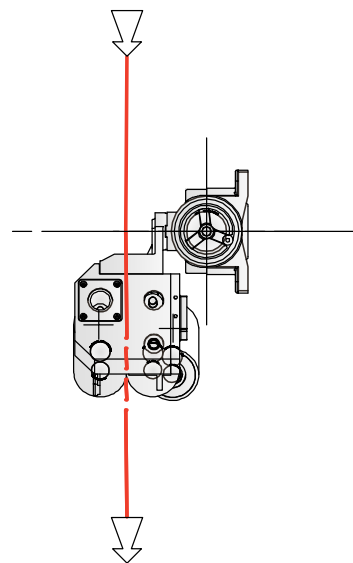
DETAILS

Sensors: Bianco® FLUO full-height sensor or edge-following photocells for perfect alignment.

Spreading unit: spreading unit scroll rollers 360, for distension of the fabrics without tension.

Oscillating rollers: by tilting, guide the fabric into the desired position.

Bow roller (optional): for distension and eliminating creases.



Fabric guides

Devices for distension and centering the fabric

ONLINE



Description

System for distension the tape by means of two groups placed on the two sides of the fabric.



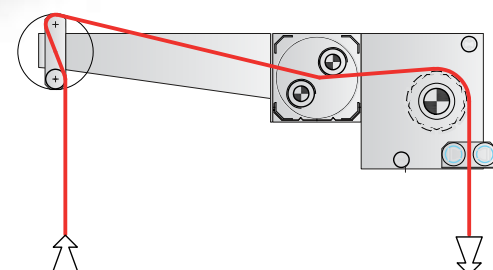
Fabric guides

CENTERING AND SPREADING UNIT COMPACT CE



Fabric guides

CENTERING AND SPREADING UNITS DOGAL



Centering and spreading unit Dogal 04

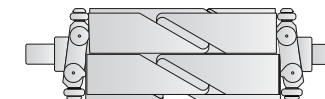
Slat system for centering and distension the fabric with maximum precision.

Slatted cylinder: the pneumatic or motorized slatted cylinder moves the fabric into the required position by the movement of its slats combined with the rotation of the roller.

Sensors: Bianco® FLUO Full-height sensor for perfect alignment.

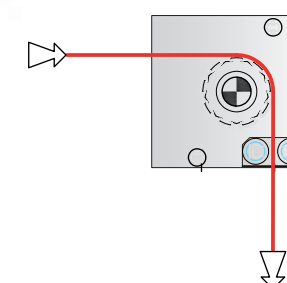
Spreading unit: spreading unit scroll rollers 360, for distension of the fabrics without tension.

Entry frame: at the entry, with tension brake.



Spreading system unit Dogal 02

Slatted cylinder for fabric distension, available in various diameters.
Formed by two steel stave segments with the ends connected to two inclined rings, these staves by rotating stretch the fabric by translating horizontally opposite on the two sides.



Centering unit Dogal 01

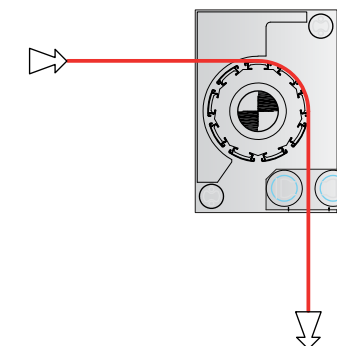
Compact system with slats for centering the fabric.

Slatted cylinder: the pneumatic or motorized slatted cylinder moves the fabric into the required position by the movement of its slats combined with the rotation of the roller.

Sensors: Bianco® FLUO Full-height sensor or edge-following photocells for perfect alignment.

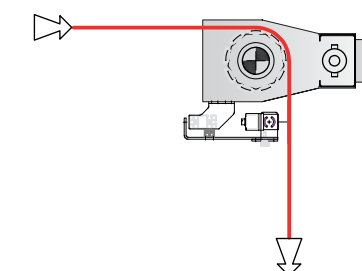
Disc brake (optional)

Motorization (optional)



Centering and spreading unit Dogal 03

Slat system, which combines DOGAL 01 and DOGAL 02, for centering and distension the fabric with maximum precision.



Centering and spreading unit Dogal 05

Sliding slat system for centering and distension of fabric with maximum precision. Sliding slat cylinder formed by two steel segments with ends connected to two oscillating rings, independent of each other.



Fabric guides

Devices for distension and centering the fabric





Open width squeezing padder

DEWATERING OPEN WIDTH SQUEEZING PADDER



Description

Foulard with two rollers that allows to extract the water present in the fabric, in order to guarantee the lowest residual humidity.

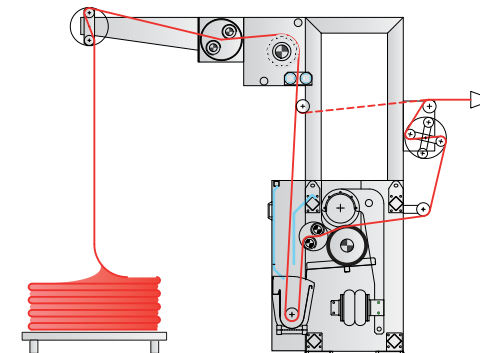
DETAILS

Impregnation tank: made of stainless steel, it allows the preparation of the bath for the fabric with water and/or chemical products. It can be single or multipath. On request it can be heated with temperature control (optional).

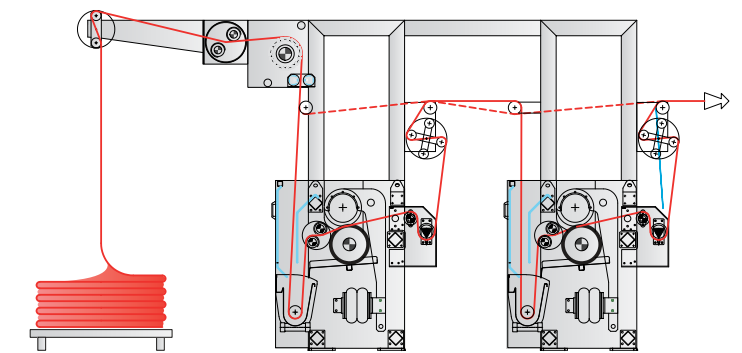
Spreading unit: spreading unit Ø 220 with spiral rollers for

distension the fabrics without tension (optional).

Speed compensator: dancing roller group at the outlet, made up of two rollers on an oscillating frame for perfect synchrony and adjustment of the fabric tension.



Open width squeezing padder



Open width squeezing padder with load cells

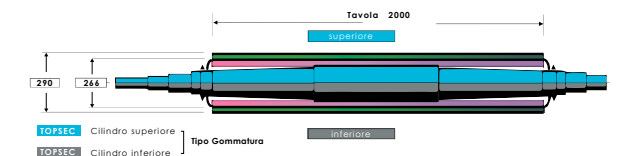
Description

Used to impregnate fabrics with chemicals and obtain optimal squeezing results

OPTIONAL

Load cell: as an alternative to the dancing roller compensator, for perfect synchrony and optimal regulation of the fabric tension.

Loop control: synchronization system by photocell without contact with the fabrics to avoid elongation.



Parallel squeezing rollers: special version, designed to squeeze homogeneously at pressures ranging from 1 to 5 bar, maintaining a constant NIP.



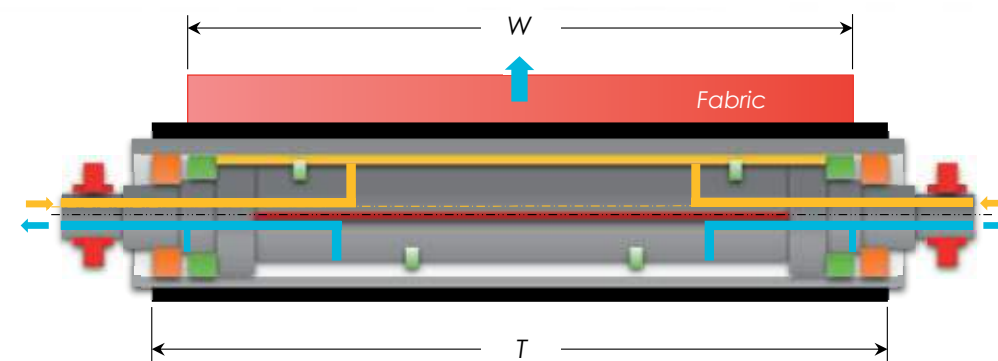
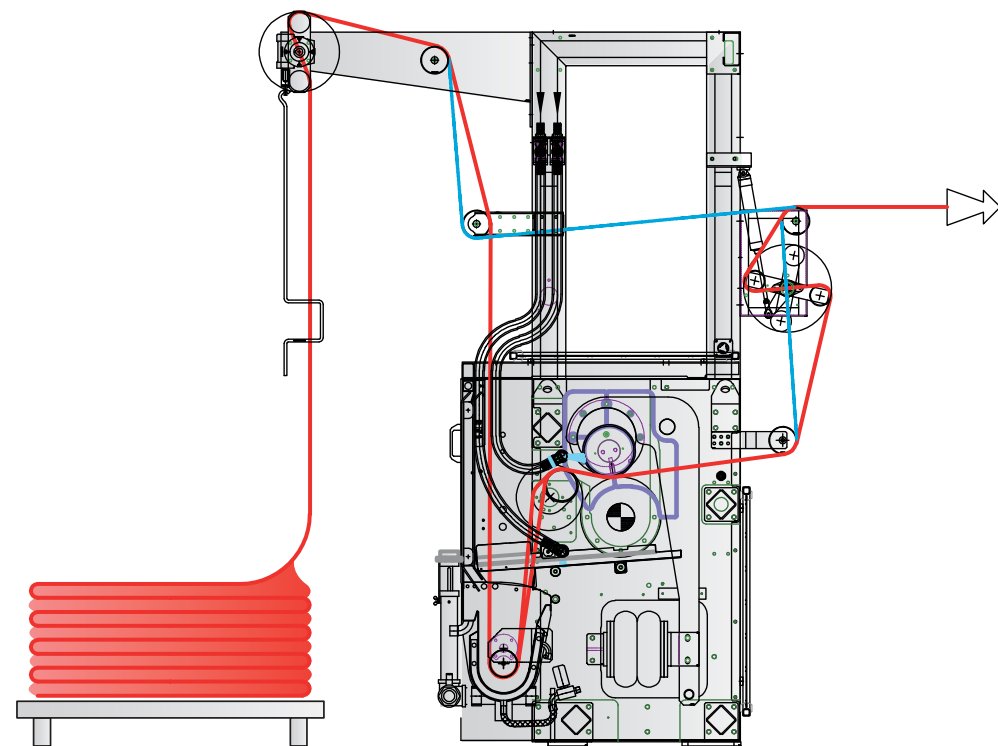
Open width squeezing padder

IMPREGNATION OPEN WIDTH SQUEEZING PADDER



Open width squeezing padder

OPEN WIDTH SQUEEZING PADDER FLEXO



MINOR TABLE

Table (mm) T	2000	2200	2400	2600
Width (mm) W	1800	2000	2200	2400

MAJOR TABLE

Table (mm) T	2800	3000	3200	3400	3600	3800
Width (mm) W	2600	2800	3000	3200	3400	3600

DETAILS

Flexo roller: floating roller with special hydraulic adjustment that allows to vary the pressure according to the needs of the fabric.

Hydraulic control unit: specially designed to manage the oil flow. It also includes a pump of 30 l/min (6/7 bar) and a diaphragm valve.

Control pulpit: control pulpit to manage the flexo roller.

Electrical panel: on the machine.

Upgrade: possibility of installing the flexo roller in all Bianco® padder at two-rollers.



Open width squeezing padder

Squeezing padder used after the dyeing and washing process



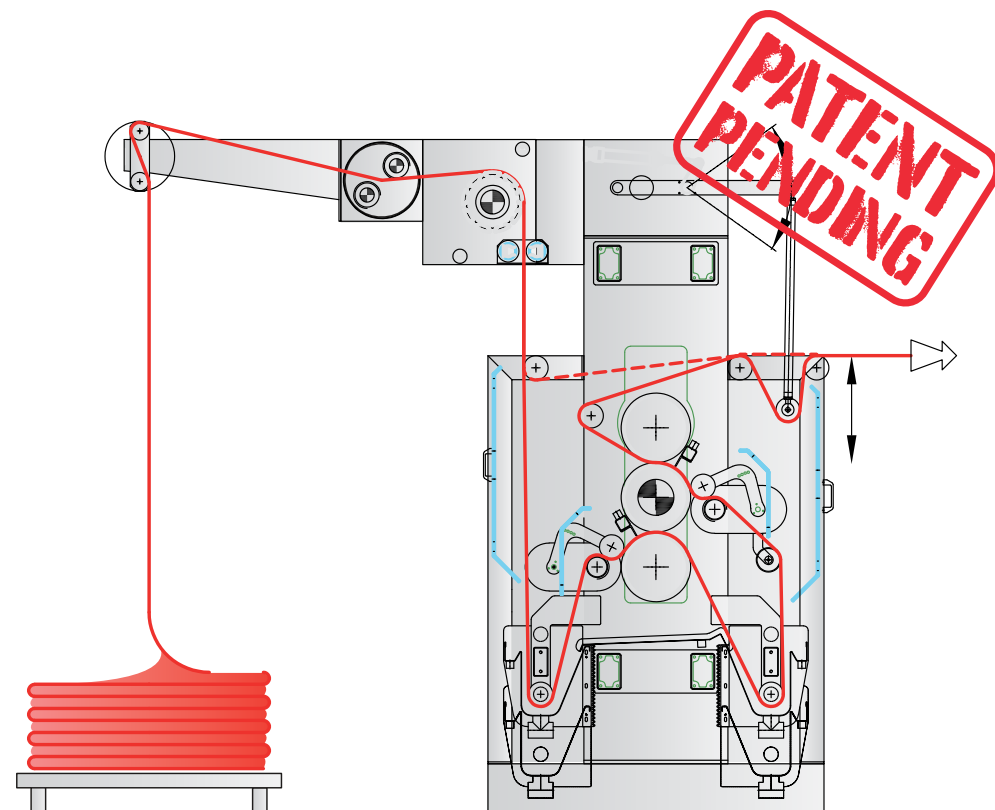
Description

It allows a homogeneous squeezing/ impregnation over the entire width of the fabric by means of the floating roller.



Open width squeezing padder

3 ROLLERS OPEN WIDTH SQUEEZING PADDER

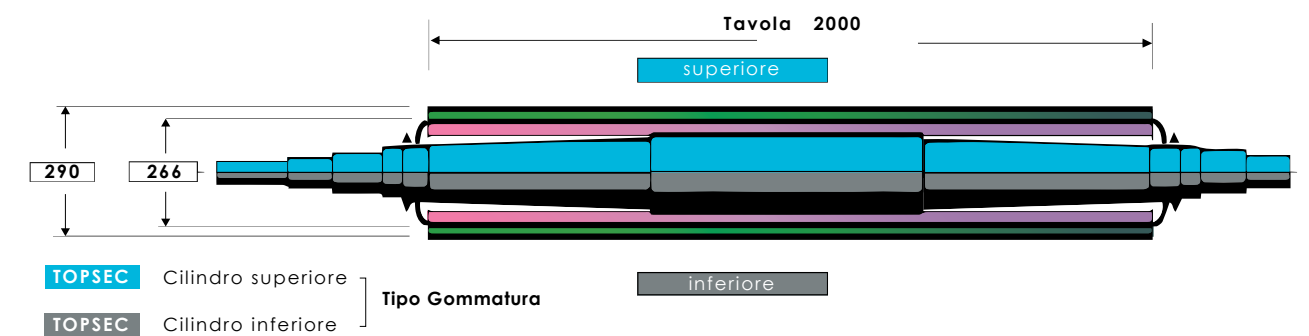


DETAILS

3 rollers: diameter 320 mm, covered with synthetic rubber with flat and parallel grinding, 85-95 shore hardness, pressure 67 Kg/cm².

Central roller: driven by gearmotor.

Upper and lower roller: uncontrolled and equipped with flexure compensation spacing.



Parallel squeezing rollers: special version, designed to squeeze homogeneously at pressures ranging from 1 to 5 bar, maintaining a constant NIP.



Open width squeezing padder

Squeezing padder used after the dyeing and washing process

ONLINE



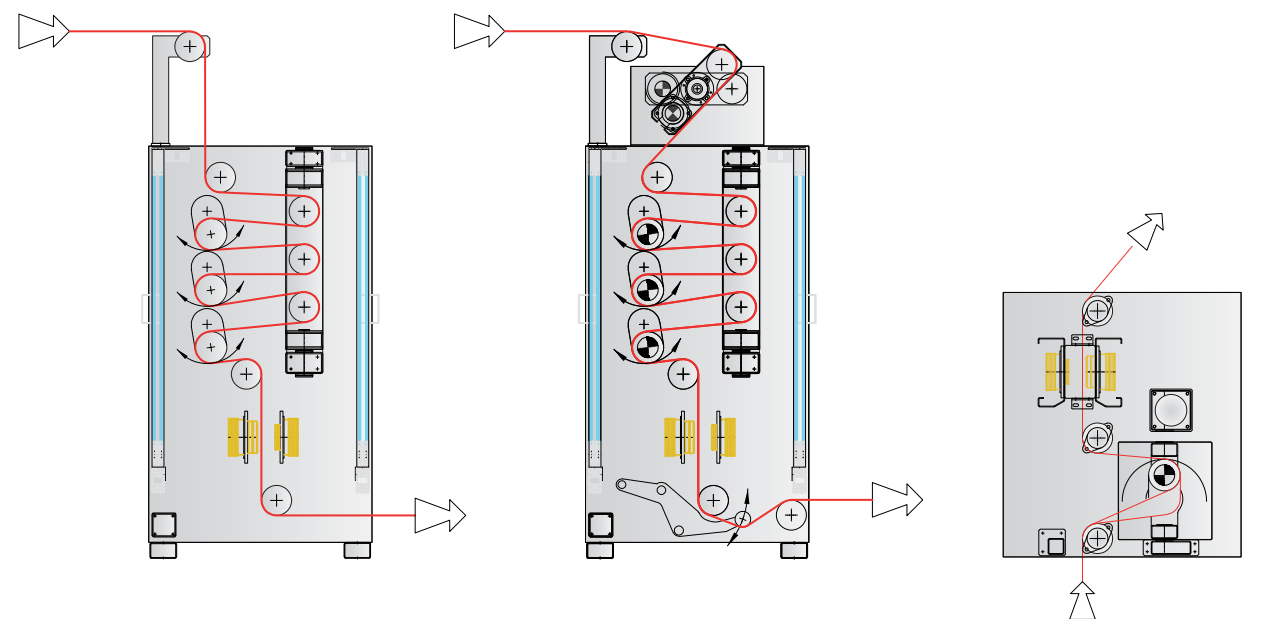
Description

Compact system for high squeezing and impregnation.



Weftstraightener

OPTICAL WEFTSTRAIGHTENER



FDC optical weftstraightener

MDC optical weftstraightener

Optical miniweftstraightener



Weftstraightener

Machines for correcting the fabric distortions

ONLINE



Description

Machine used to correct diagonal and/or curved weft distortions.



DETAILS

Spreading group (optional "A"): spiral scroll roller at inlet, for distension the fabric.

Diagonal frame: three idle rollers ensure perfect adjustment of diagonal distortions.

Two bow rollers (optional three): rubber coated, they guarantee perfect adjustment of curved distortions.

Reading bridge: with fixed, mobile or scanning (optional) Bianco® STD3 sensors.



Speed compensator: positioned at the outlet of the reading bridge, in case of light, delicate or elastic fabrics.



Optical miniweftstraightener

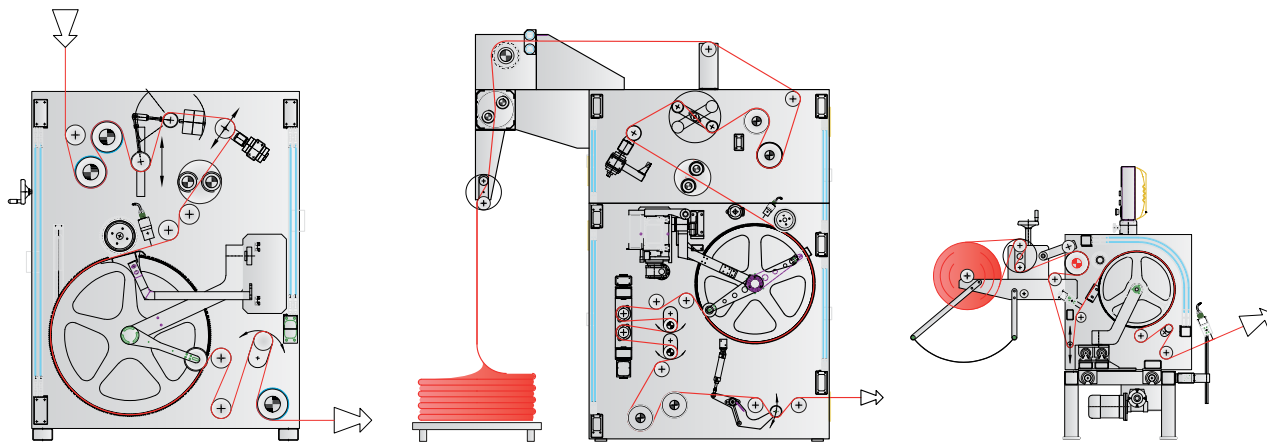
Compact weftstraightener for Stenter outlet or other drying processes, or for printing lines.

Models: FDC for woven fabrics - MDC (with motorized bow rollers) for knitted and woven fabrics.



Weftstraightener

PINWHEEL WEFTSTRAIGHTENER



Pinwheel weftstraightener

Big Pinwheel weftstraightener

Pinwheel miniweftstraightener



Weftstraightener

Machines for correcting the fabric distortions

ONLINE



Description

Machine used to correct the sinusoidal weft distortions.



DETAILS

Introduction and bypass roller: placed immediately before the wheels, it ensures the correct positioning of the fabric.

Proportional photocell FTC7: detects fabric position and drives pin wheels.

Pinwheels: two 800 mm diameter idle wheels, with pin

sectors along the circumference, rotate at different speeds based on weft distortions.

Bar or bow roller: eliminates any residual curved distortions.

Speed compensator: two rollers on an oscillating frame allow to manage the tension on the fabric.



Pinwheel weftstraightener Big

Weftstraightener with reinforced structure and 1000 mm diameter wheels, for the correction of heavy fabrics such as terry towels.



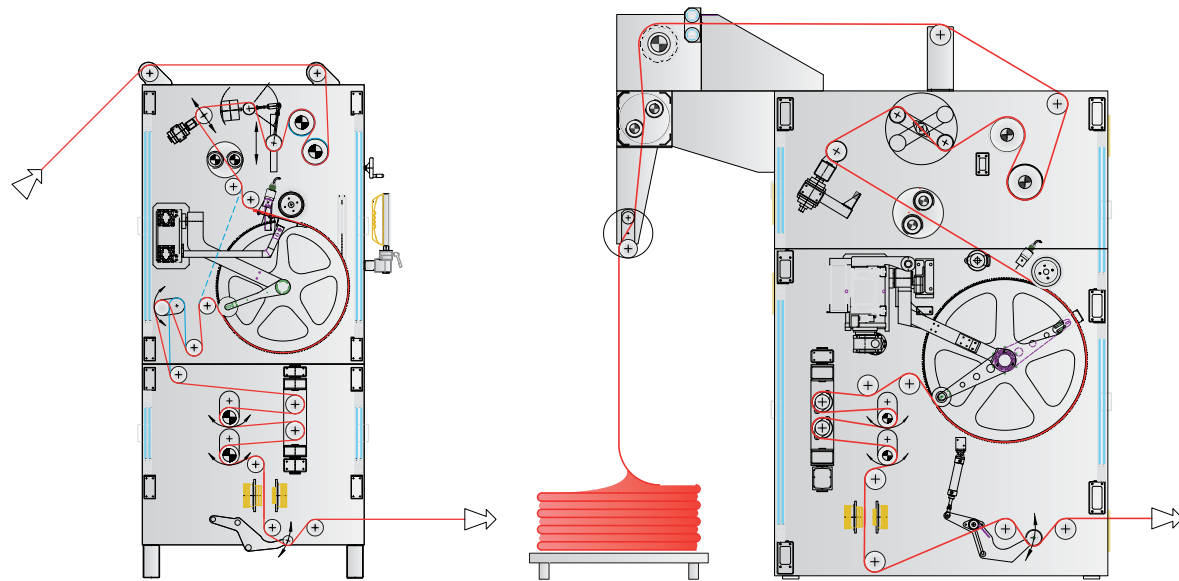
Pinwheel miniweftstraightener

Compact weftstraightener, with 450 mm diameter wheels, for small distortions at the inlet of printing lines.



Weftstraightener

KOMBI WEFTSTRAIGHTENER



Kombi weftstraightener

Big Kombi weftstraightener



DETAILS

Introduction and bypass roller: placed immediately before the wheels, it ensures the correct positioning of the fabric.

Spreading unit Ø220: spiral roller for distension the fabrics without tension.

Bianco® VDTEX: display touch screen 15".

Proportional photocell FTC7: Detects fabric position and

drives pin wheels.

Reading bridge: with fixed, mobile or scanning (optional) Bianco® STD3 sensors.

Tensioning roller: ensures fabric distension before pinwheels.



Weftstraightener

Machines for correcting the fabric distortions

ONLINE



Description

Machine for correction of distortions in diagonal, curved and sinusoidal plots.

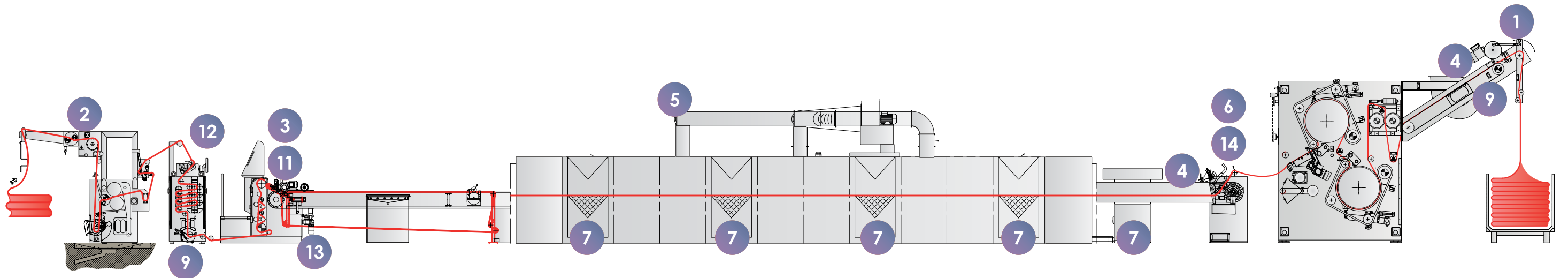
SENSOR TECHNOLOGY



SWB1, SWB2, SWT1, SWT2, SWT1LE, SWT2LE Weightex

Sensors for detecting the specific weight without contact of moving tape.

4



Width detector Mistav

Infrared system, contactless, to measure fabric position and width.



Full width detector FLUO LM2

Infrared device, contactless, to detect fabric position.



Proportional photocell FTC7

Double system, optical and mechanical sensor to detect fabric position.



Ecotex SE2

Sensor for humidity detection in exhaust smoke of dryers and Rameuse.



Hygotex SH2

Sensor for residual humidity detection in fabric, after drying process.



Termotex/Termofix SP2

Sensor for continuous contactless measurement of the surface temperature of the fabrics.

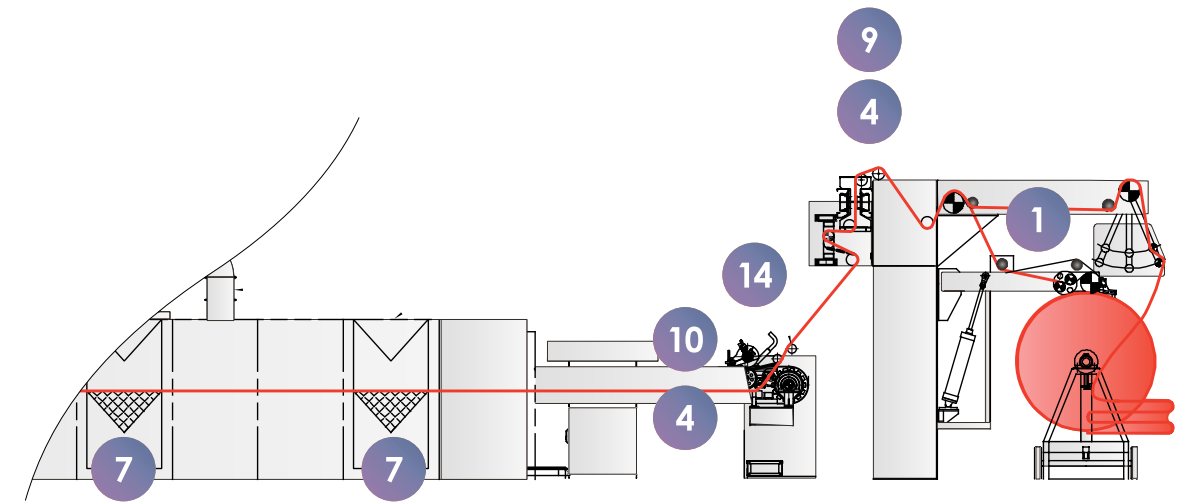
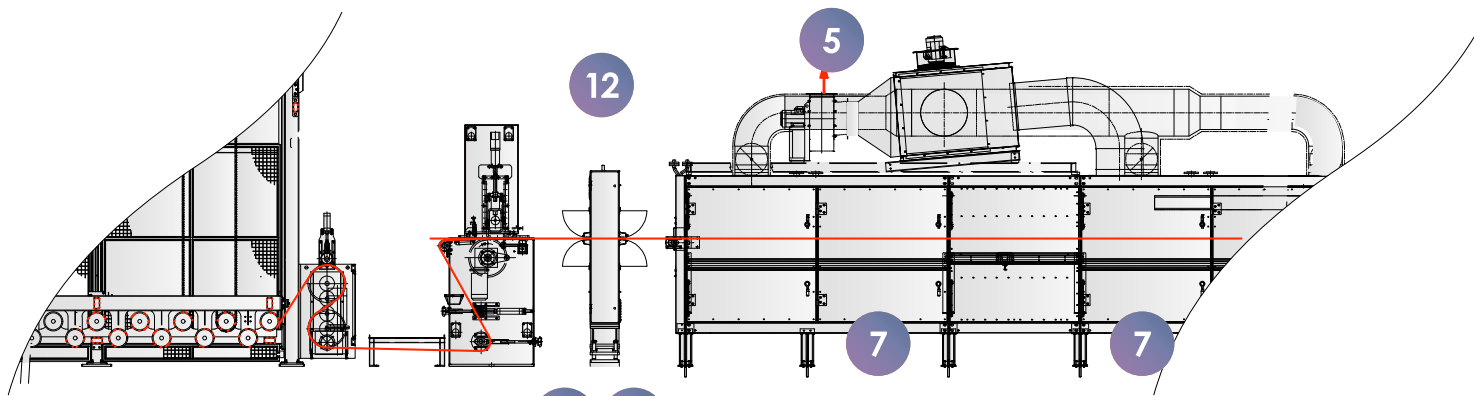
SENSOR TECHNOLOGY



Selvedge opener uncurler – M/P

Mechanical (M) or pneumatic contactless (P) device to properly open the selvedge.

11



Scanning bridge

Traversing portals of different sizes for housing Weightex sensors.



Thread counter SCS1

Sensors to detect weft and or warp density and weft distortions.



Thickness detector STHA1/STHA2

Sensor to detect the fabric thickness.



VDTEX and OP7 operator panel

Display touch screen 15" e 7".



Inram conic field INFEED

Device to correctly place the fabric onto the pins of the conic field.

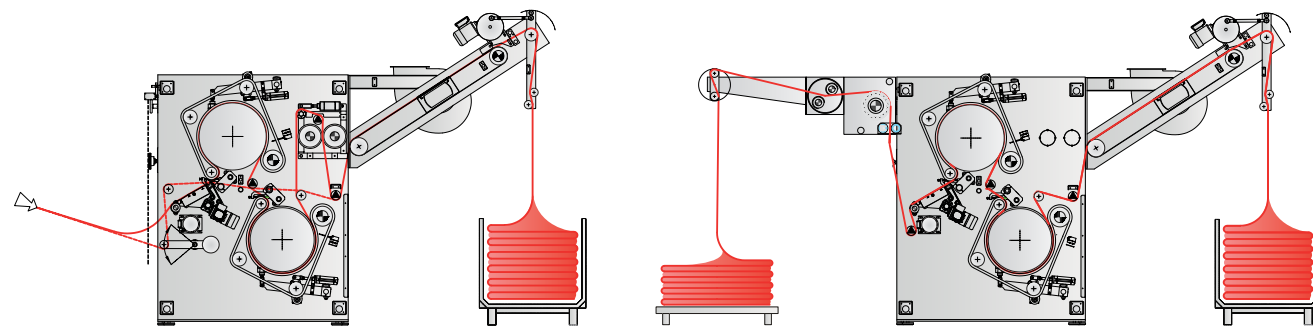


Selvedge cutter TGC02

Double cutting group to remove the selvedge on the rameuse exit or on the tenter frame of the compactor.

 Open width compacting

B-KOMPACT 600 OPEN WIDTH FELT COMPACTOR



In-line B-Kompact open width felt compactor

B-Kompact open width felt compactor Stand Alone

DETAILS

Steaming box: increases humidity in the fabric making the fibers softer. With spreader roller before and after.

Double compacting felt: 21 mm thickness, 100% Nomex®. Large diameter cylinders (500 mm) with 270° fabric contact surface.

Load cells: they ensure optimal machine synchronism and correct fabric tension.

Plaiter with cooling belt : perforated belt with suction system to reduce the temperature of the fabric before depositing it in the plaiter.

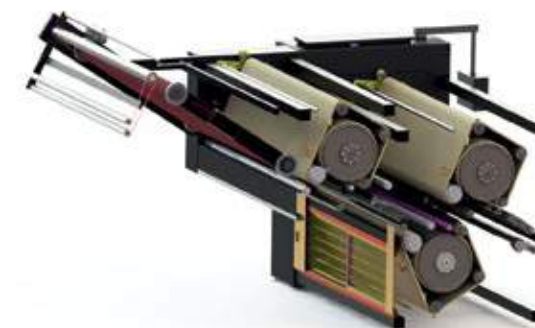
 Open width compacting

Machines for improvement the dimensional stability in knitted fabric



Description

Open width compacting machine, with large diameter cylinders (600 mm), guarantees high production speed and excellent shrinkage.

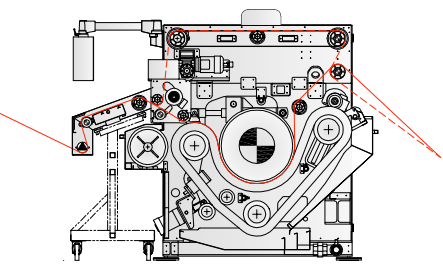


3 Super Kompact 600

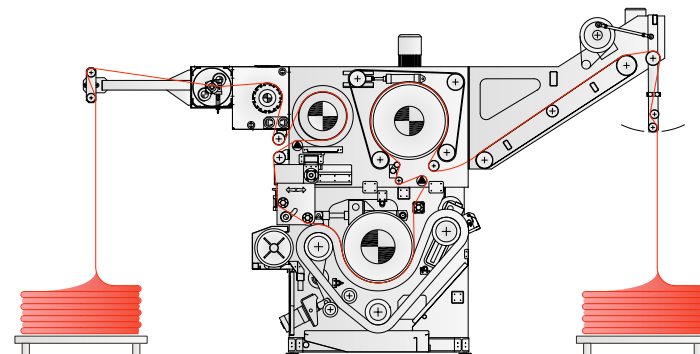
Open width compaction machine for knitting fabrics, with 3 large diameter cylinders (600 mm), guarantees higher productivity, excellent shrinkage and excellent dimensional stability.

 Open width compacting

B-SHRINK OPEN WIDTH RUBBER BELT COMPACTOR



In-line B-Shrink open width rubber belt compactor



B-Shrink open width rubber belt compactor Stand Alone



 Open width compacting

Machines for improvement the dimensional stability in knitted fabric.



Description

Machine for compacting the knitting and woven fabric.

DETAILS

Introducing group: it varies the entry point of the fabric into the rubber belt, thus optimizing the compaction process.

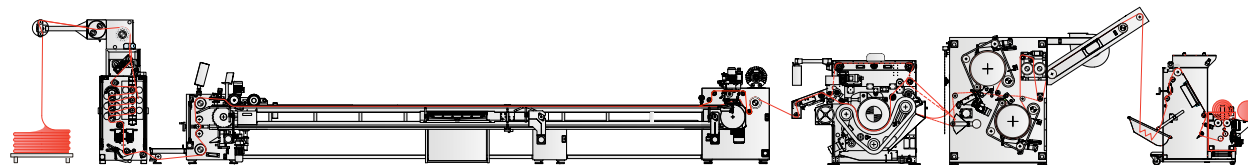
Grinding: machines on-board system to help the maintenance.

Steaming box: increases humidity in the fabric making the fibers softer. Device mounted on wheels to facilitate maintenance operations.

Rubber belt: 67 mm thick, made of natural material to ensure durability and to efficiently compacting.

Open width compacting

COMPACTING LINE



Compacting line with optical weftstraightener, tenter frame, B-Shrink open width rubber belt compactor, B-Kompact 600 open width felt compactor and non stop winder

DETAILS

Tenter frame: chain from 4 to 10 m divided on conic field and parallel field. The anti-pinching systems adopted ensure perfect adhesion of the fabric on the pins, and the

action of steam prepares the fibers to get the best out of the compacting process. The operator's elevated position also ensures a perfect view of the plant.

OPTIONAL

Extra independent steaming modules that can be freely positionable in the line

Suction hood on steaming

Open width compacting

Machines for improvement the dimensional stability in knitted fabric.

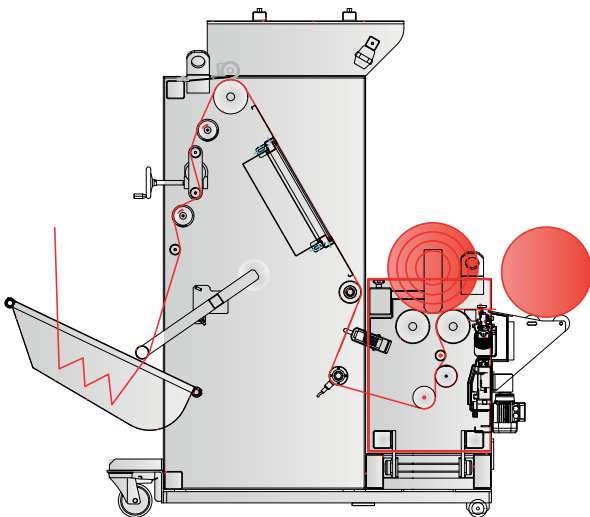


Description

Set of machines designed to get the best out of the open fabric compaction process.

Accessories

NON STOP WINDER



Accessories

A complete range of devices for carrying out processes in the finishing stages



Description

Machine to produce small rolls up to 500 mm of diameter, to be installed at the rameuse outlet and/or compactor, avoiding machines stop for roll change.

DETAILS

Speed compensator: to synchronise with the previous machine.

J-scray at the inlet: for fabric storage over the roll change.

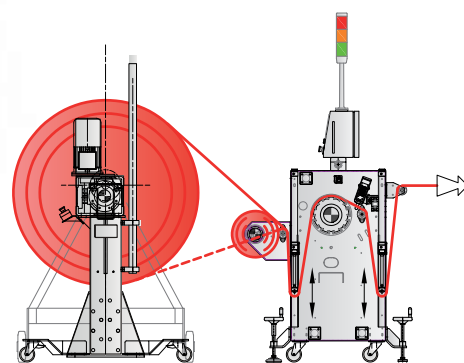
Double spreading roller system: for distension of the fabric at the inlet.

Dragging roller: rubber coated, prior to the inspection table.

Autocentering winding group: two rubber-coated tape motorized rollers with independent speed regulation. Bianco® FTC7 or FLUO position sensor for perfect alignment.

Accessories

INKJET INFEEDER



Description

Machine for introducing fabric into digital printing machines.

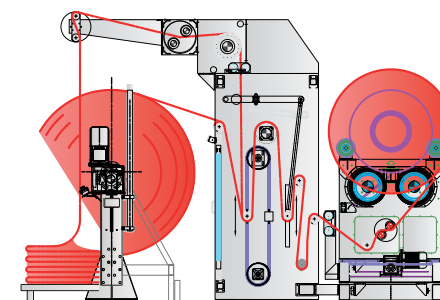
DETAILS

Speed compensator at inlet and outlet: it allows continuous unwinding of the roll, without varying the tension in the fabric.

Centering and spreading unit Dogal 03: for centering and

distension of the fabric, with Bianco® FTC7 proportional photocell.

Axial unwinder column: It allows unwinding of big rolls at constant speed and tension.



Description

Preparation line for beam dyeing process.

DETAILS

Centering and spreading unit Dogal 04: for centering and distension of the fabric with maximum precision. Bianco® FLUO full-width sensor for perfect alignment.

Linear dancing roller : device to control the tension and synchrony of the fabric.

Dragging roller: rubber-coated tape, before the self-

centering unit.

Beam winder: with self-centering system and tension control.

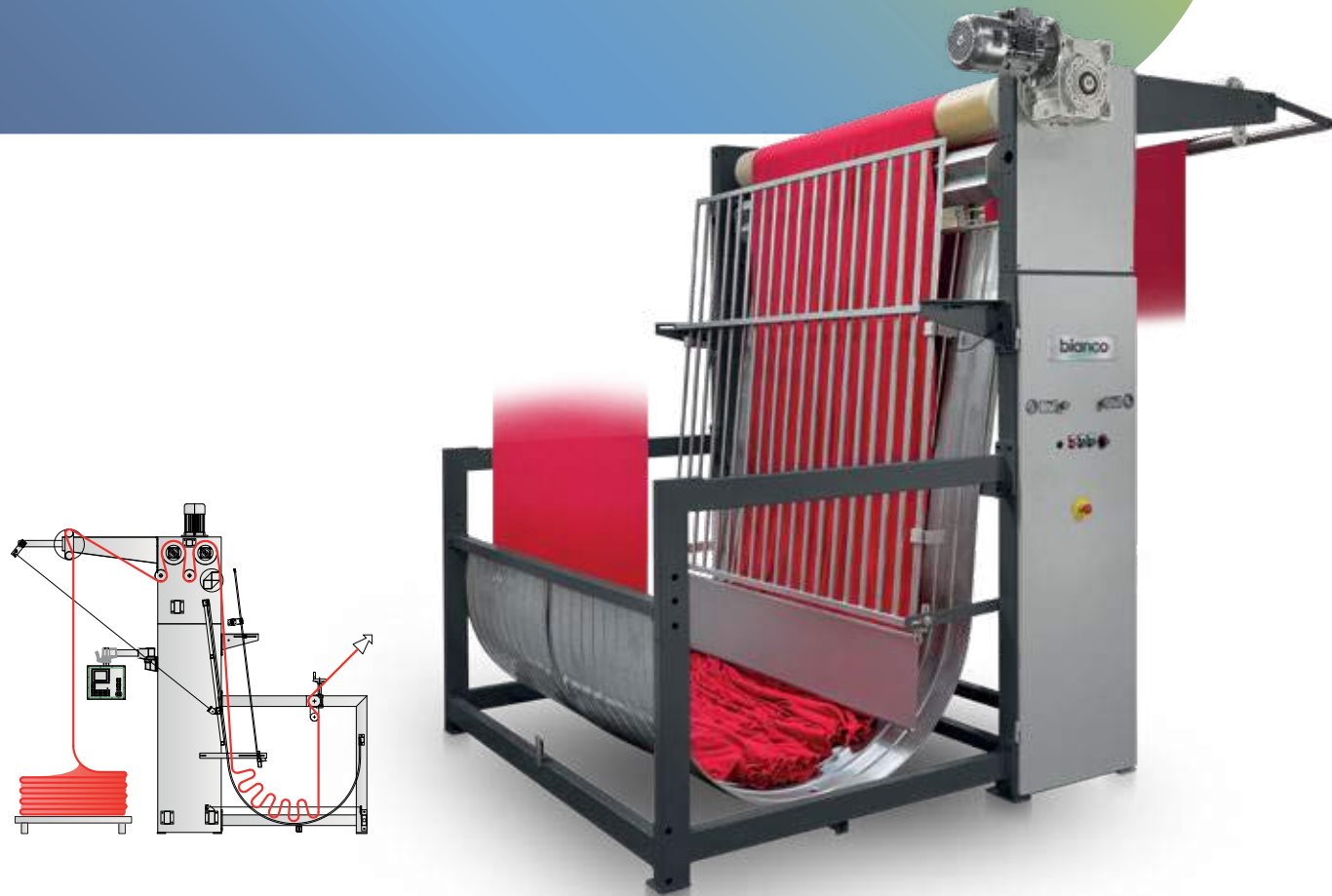
Variable beams: the moving-shoulder system allows a single machine to process beams of different sizes supplied by the customer.

Accessories

BEAM WINDER

Accessories

ACCUMULATION SCRAY



Description

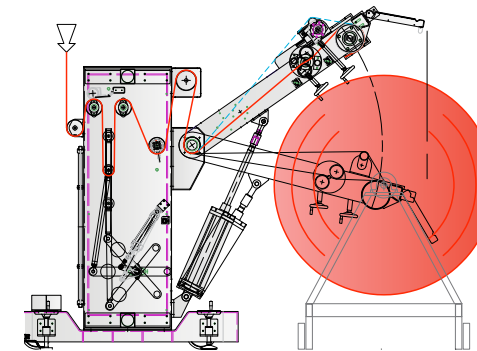
Fabric accumulation machine, to avoid line stops during roll change.

DETAILS

Dragging roller: big diameter and rubber-coated, to bring the fabric from the entrance towards the scray.

Sensors: photocell for managing the amount of fabric in accumulation.

Accumulation scray: in stainless steel, its shape allows the fabric to settle in small fold.



Description

Machine used for production of big rolls, even with light and elastic fabrics.

DETAILS

Speed compensator: for the correct synchronization of the fabric.

Bow roller or spreader unit Ø 220: for distension of the

fabric before the winding process.

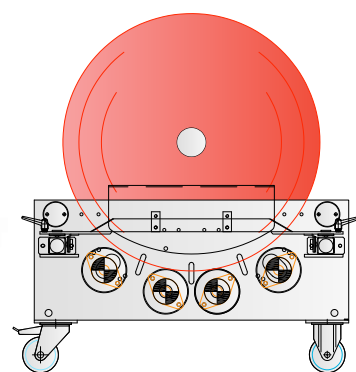
Dragging roller: rubber coated tape (vulcanized on demand) for winding.

Accessories

WINDER ARM

Accessories

SMALL ROLL CRADLE



Description

Small roll unwinder system.

DETAILS

Rollers: to support the small roll, diameter up to 1000mm.

Side blocks: adjustable to contain the roll.

Sensors: fabric detector sensor.

Motorization (optional): motorized rollers.

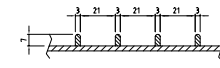
Description

System for distension the fabric using scroll rollers.

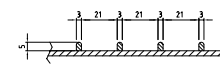
DETAILS

Scroll rollers: one or two stainless steel rollers with a helical profile. Different profiles available.

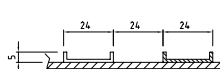
Profile "I"
Pitch = 96
Principles = 4



Profile "IR"
Pitch = 96
Principles = 4



Profile "A"
Pitch = 96
Principles = 2

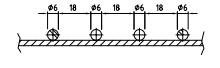


Profile "B"
Pitch = 96
Principles = 4



Gearbox: It activates the movement of the rollers in the opposite direction to fabric flow. Adjustable tangency angle.

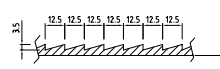
Profile "D"
Pitch = 96
Principles = 4



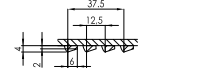
Profile "D/comb"
Pitch = 96
Principles = 4



Profile "E"
Pitch = 75
Principles = 6



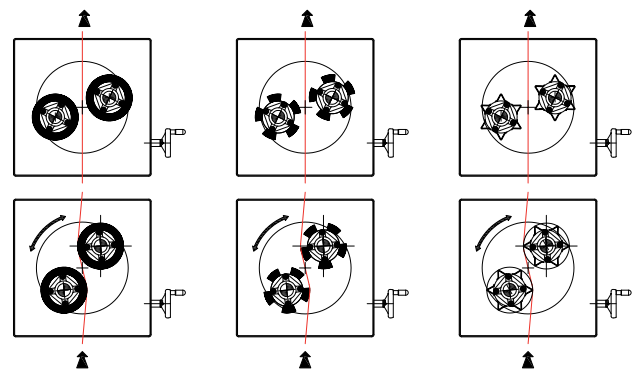
Profile "ER"
Pitch = 37,5
Principles = 3



Accessories

SPREADING UNIT SCROLL ROLLERS

BRUSHING AND BEATING SYSTEM



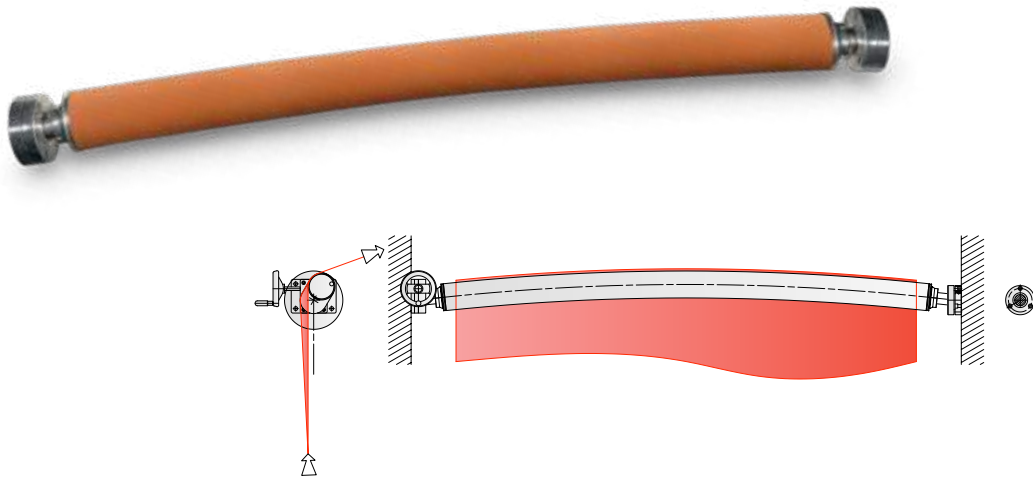
Description

System for cleaning the fabric by means of brushes and/or beaters.

DETAILS

- Vacuum unit:** filters group included.
- Brushes:** with adjustable angle of incidence.

Adjustable tangency: motorized (optional).



Description

Used to obtain perfect distension and eliminate creases on woven fabrics.

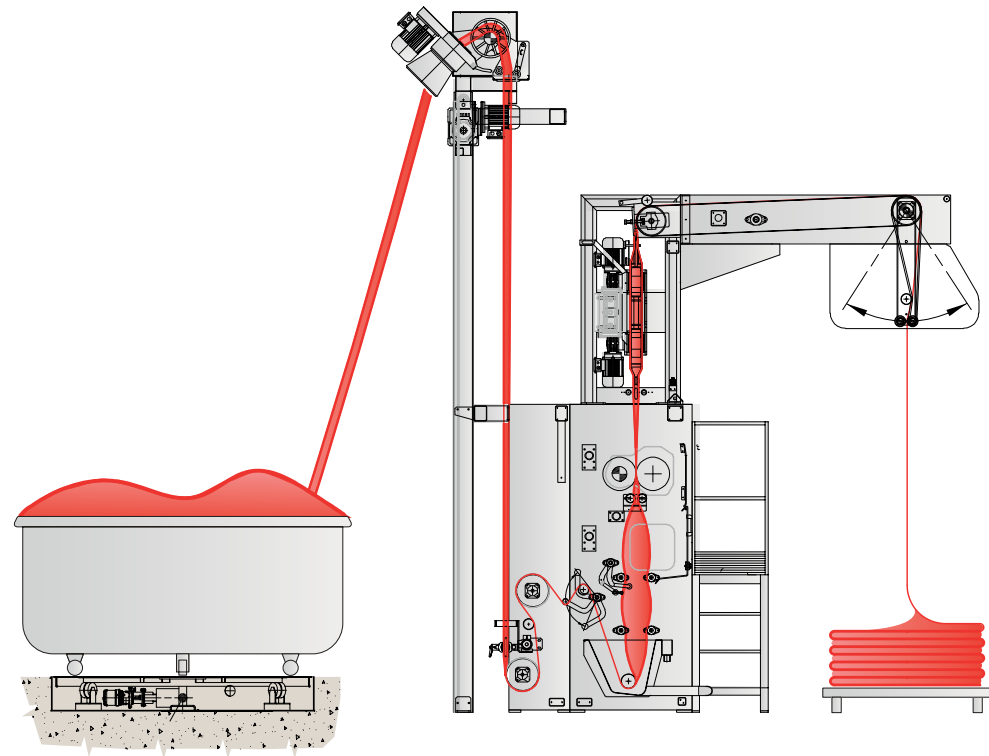
DETAILS

MODEL	COLOR	HARDNESS (Sh.A)	TEMPERATURE (°C)		FEATURES AND APPLICATIONS
			MIN	MAX	
AL E 60	black	60 ± 5	-35	+140	Good elasticity; Good resistance to acids and solvents.
AL H 60	brown	55 ± 5	-10	+130	Good resistance to abrasion and alcohols. Excellent resistance to oils.
AL NP 60	white	60 ± 5	-10	+100	Good resistance to abrasion; Good resistance to oils, greases, ozone and alcohols.
AL X 70	black	65 ± 5	0	+130	Excellent abrasion resistance to oils and fats. Good resistance to alcohol.
AL Y 70	black	60 ± 5	-10	+130	Good resistance to abrasion, steam and acids.

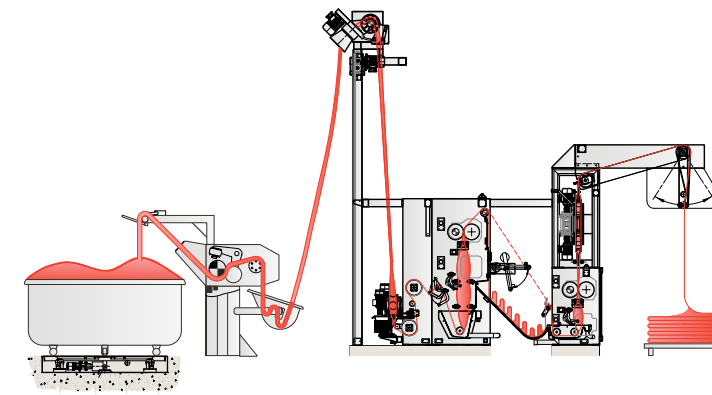
BOW ROLLER

 Tubular process

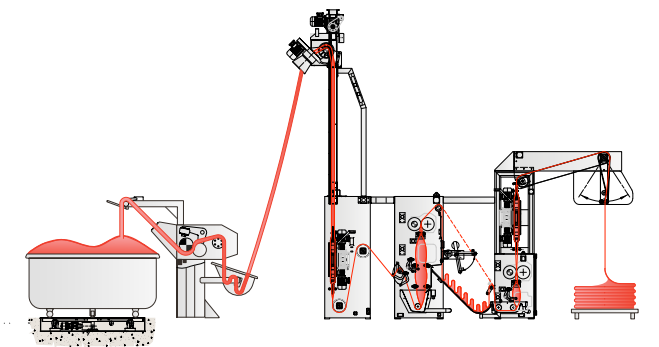
TUBULAR ROPE OPENER LINE



APT3 Tubular rope opener line



APT4 Tubular rope opener line with double squeezing padder + Twister



APT4 Tubular rope opener line with double squeezing padder with double stretcher

 Tubular process

The best technological solutions for processing tubular fabrics



Description

Automatic system for opening and untwisting the tubular rope fabric.

DETAILS

Adjustable framing: makes framing and maintenance easy.

Detwister: made in stainless steel, guarantees excellent untwisting of the fabric rope without creating elongation.

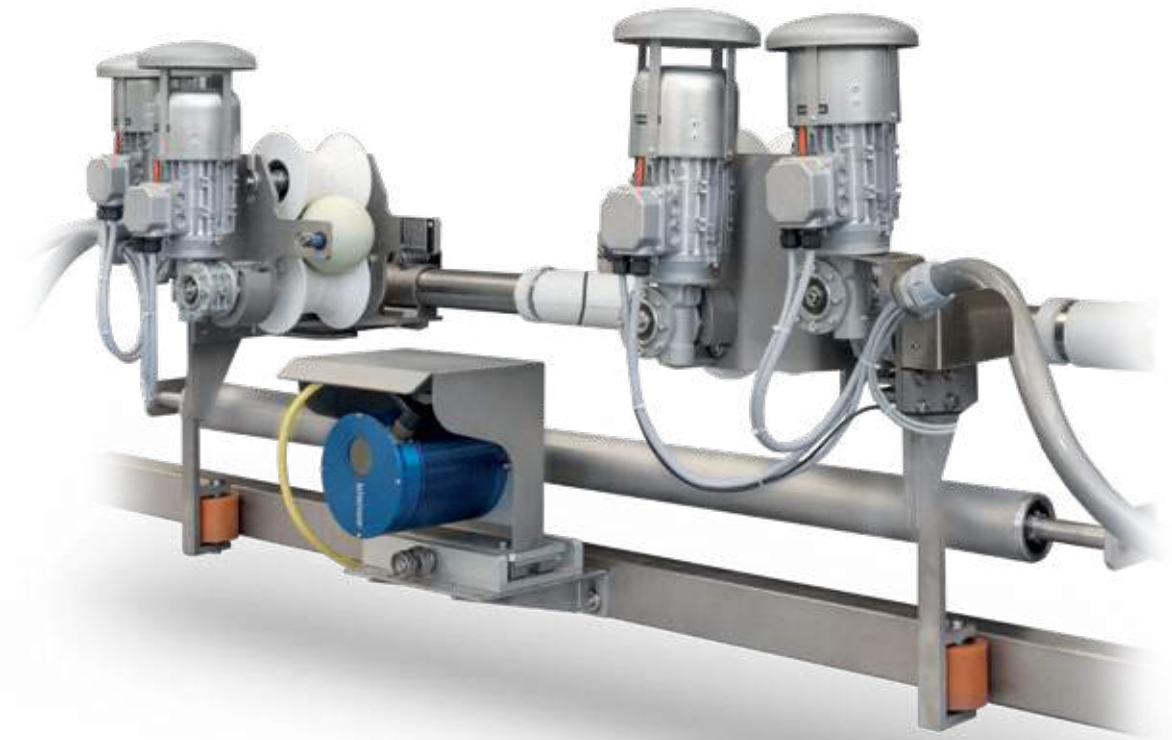
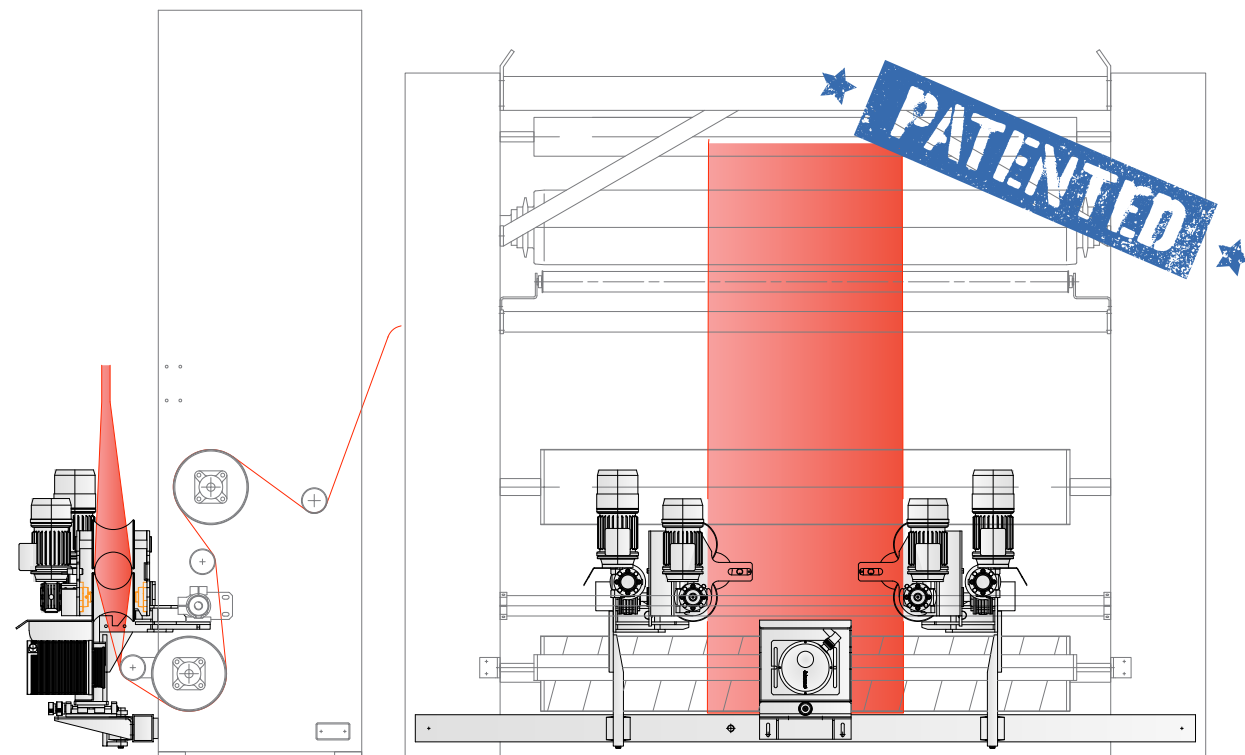
Dragging group: double rubber coated and motorized rollers for fabric advancement.

Squeezing padder: foulard with two rollers that allows to extract the water present in the fabric, in order to guarantee the lowest residual humidity.

Magnetic spreader stretcher: system with 4 independent motors for better overfeeding and fabric distension.

 Tubular process

TWISTER



DETAILS

Soft-touch magnetic spheres: for the perfect opening of the fabric. The system is made up of two groups, each one equipped with two wheels and in between the magnets are positioned to attract the spheres. Independent

motorization for the adjustment of the inclination and of the overfeeding.

Automatic reading head: automatic and continuous system for detecting the inclination of the column.

OPTIONAL

Thread counter SCS1: sensors to detect weft and or warp density and weft distortions.



 Tubular process

The best technological solutions for processing tubular fabrics

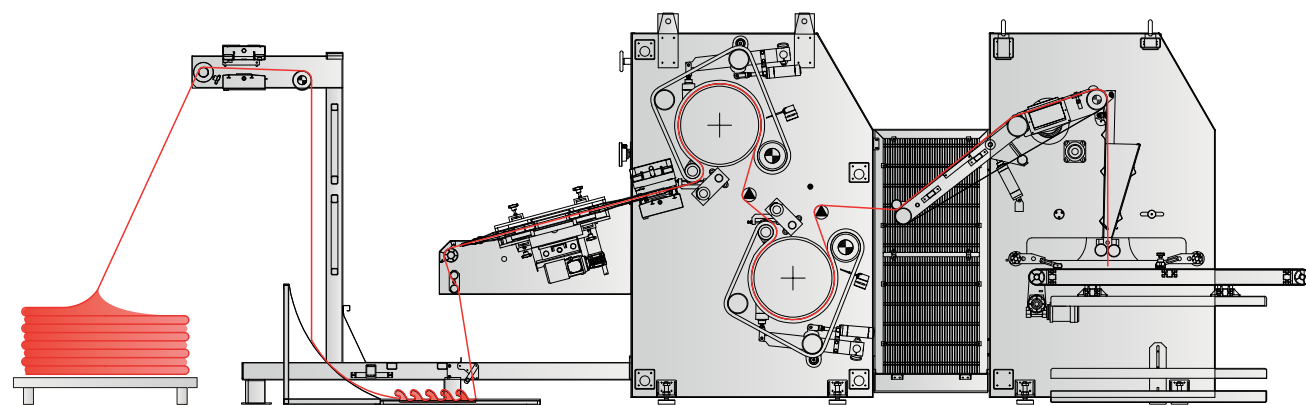


Description

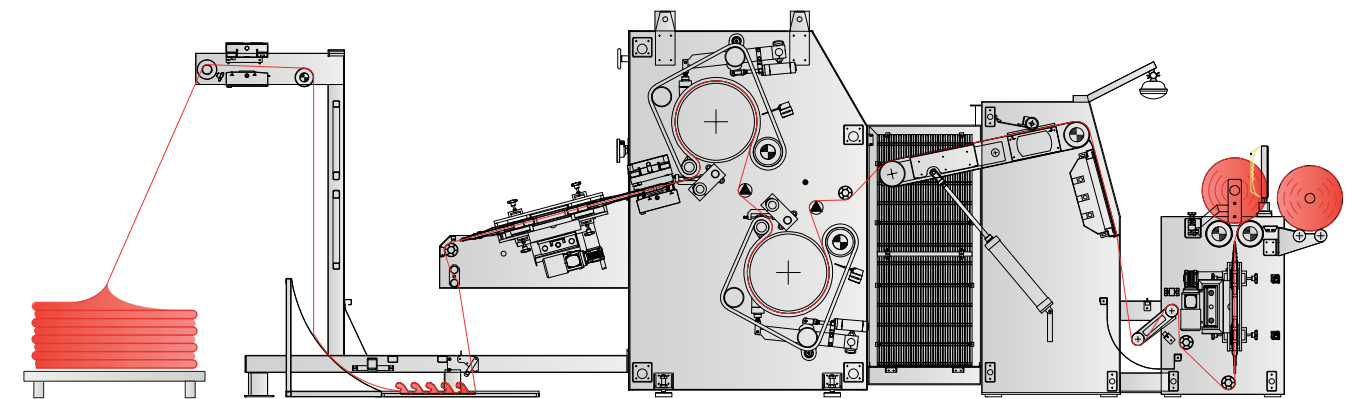
System for the automatic control and correction of the spirality of the tubular fabric.

 Tubular process

TUBULAR FELT COMPACTOR T-KOMPACT 500



T-Kompact tubular felt compactor with precision plaiter at the outlet



T-Kompact tubular felt compactor with small roll at the outlet

 Tubular process

The best technological solutions for processing tubular fabrics



Description

Machine for compacting tubular fabrics with large diameter cylinders (500 mm), guarantees high production speed and excellent shrinkage.

DETAILS

Stretcher magnetic spreader: system with independent motorization, facilitates the distension of the tubular fabrics and adjustment of the overfeeding.

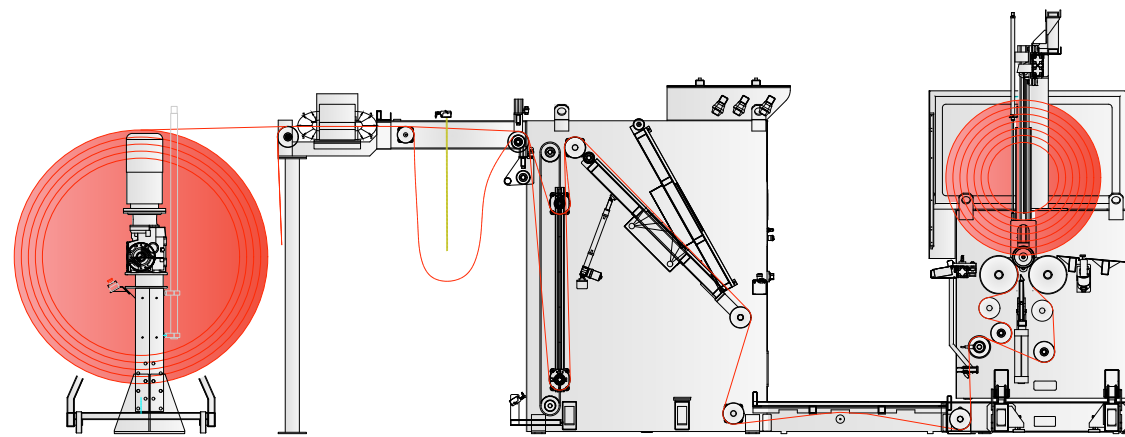
Dragging roller at inlet: it brings the fabric from the trolley towards the accumulation j-scray without any tension.

Double steamer: increases moisture in the fabric making the fibers softer.

Double compacting felt: 21 mm thickness, 100% Nomex®. Large diameter cylinders (500 mm) with 270° fabric contact surface.

 Quality control and packaging

SMART WINDING LINE



DETAILS

Entry: high sensitivity axial unwinding unit, with dancing roll or load cells.

Inspection area: inspection table with double lighting, as optional, also available with variable inclination.

Automatic restart: of the roll with or without tube.

Parking device: first quality roll.

Automatic discharge: of the defective material.

OPTIONAL

Back light: to inspect the fabric in transparency.

Brushless motorization: for perfect control of fabric tension.

Inspection area: inspection table with double lighting, as optional, also available with variable inclination.

Output roll weighing system

Automatic roll unloading system

Automatic or semiautomatic fabric cut

Barcode label printing management

Fabric defect mapping management

Defect signaling device on the fabric edge

 Quality control and packaging

Systems for inspection, cutting, rolling and packaging of fabrics, paper, and plastic



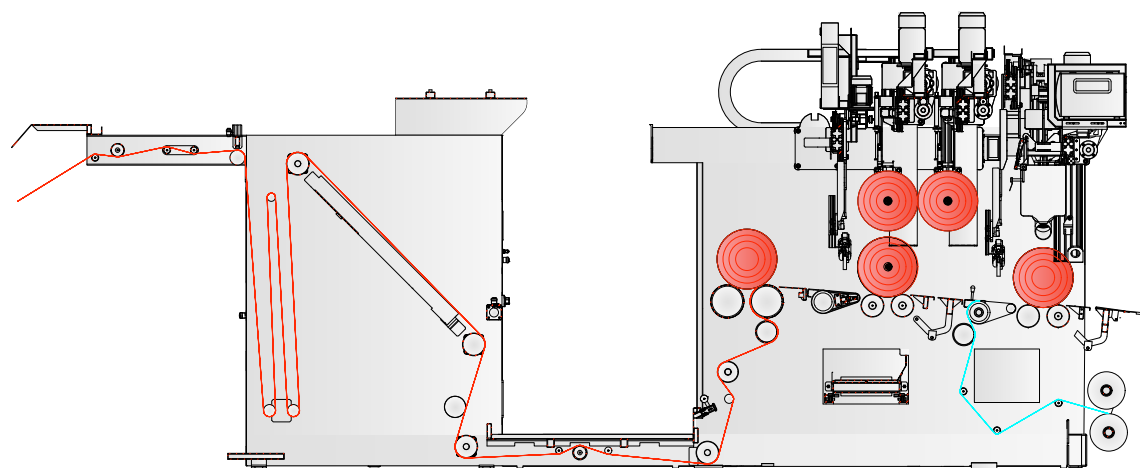
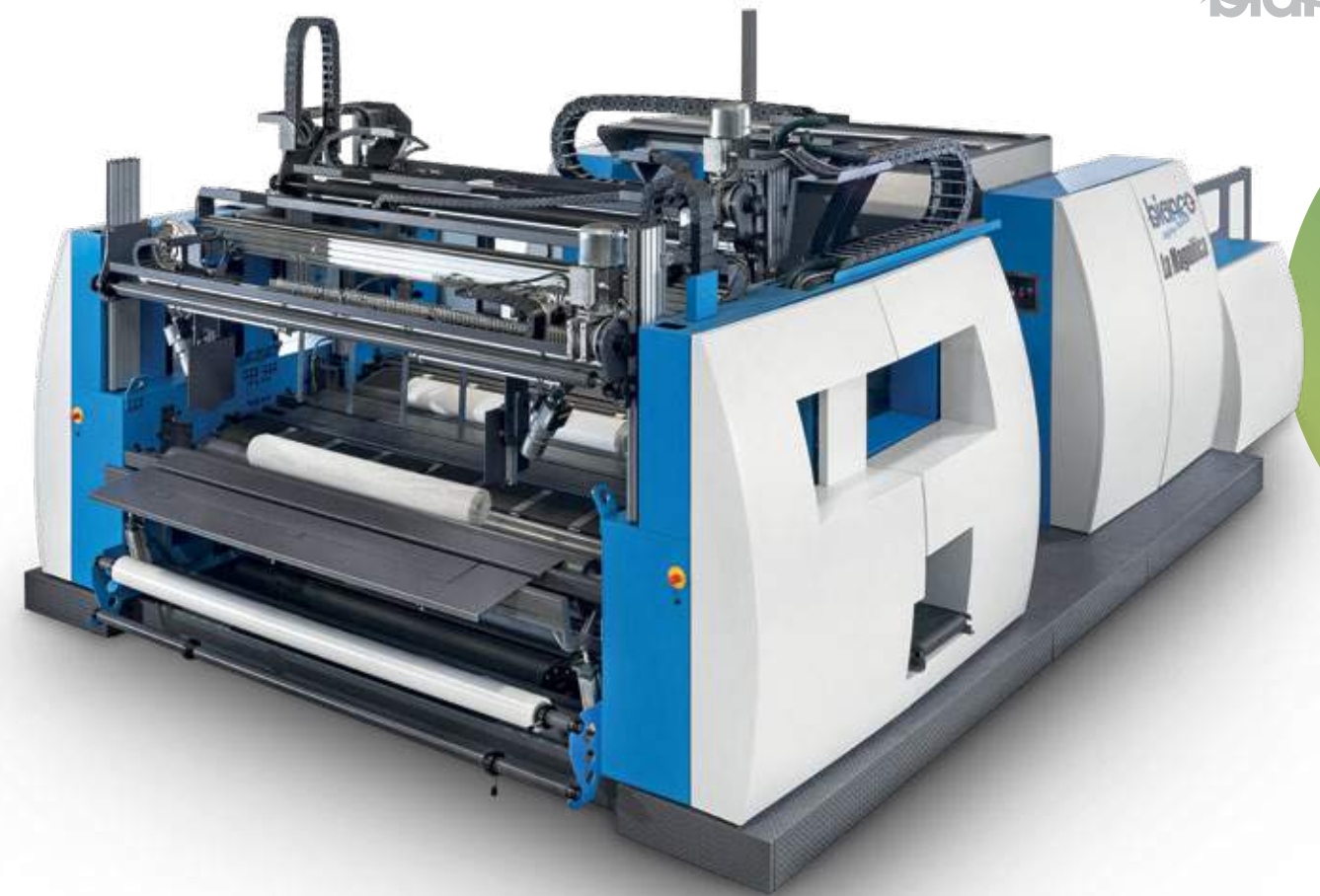
Description

Machine for checking and winding various types of fabric in semi automatic way.



Quality control and packaging

MAGNIFICA WINDING & PACKING LINE



DETAILS

Entry: free or braked unwinding unit.

Winding area: winding without tension, max speed 100 m/min, perfect alignment.

Manual restart: of the roll with tube.

Manual discharge: of the defective material. Automatic system available (optional).

OPTIONAL

Back light: to inspect the fabric in transparency.

Brushless motorization: to inspect the fabric in transparency.

Output roll weighing system

Automatic roll unloading system

Automatic creation of the fabric sample

Parking for roll: for the creation of first or second quality rolls.

Automatic winding: with mapping and cutting plan.

Inspection area: inspection table with double lighting, as

optional, also available with variable inclination.

Winding without tube

Winding with pressure roller for technical fabrics

Printing management of barcode or rfid label

Fabric defect mapping management

Defect signaling device on the fabric edge

Advertising label insertion before packaging

Automatic change of the polyethylene

Edge cutting device



Quality control and packaging

Systems for inspection, cutting, rolling and packaging of fabrics, paper, and plastic

ONLINE



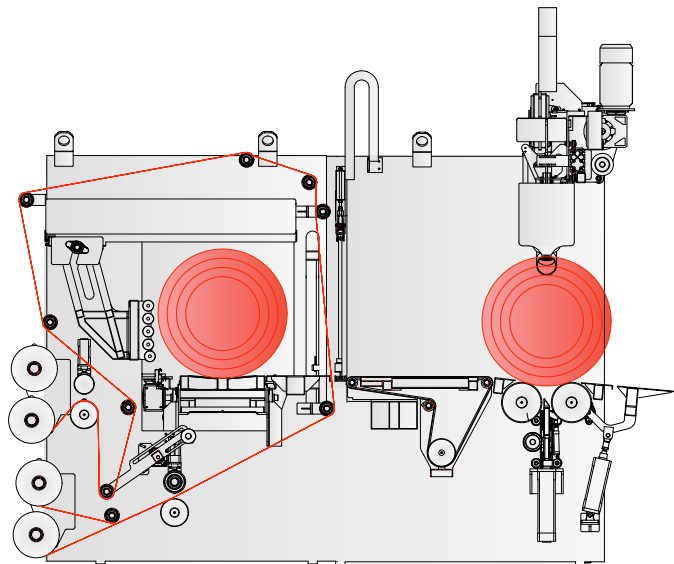
Description

Machine for checking, winding, cutting and packing various types of fabric in automatic way.



Quality control and packaging

CLEVER PACKING LINE



DETAILS

Input: to line motorized conveyor belts or from motorized accumulation table.

Packaging system: winding up to 2 rolls/min or guillotine up to 3 rolls/min with waterproof effect.

Automatic unloading: of the packed rolls, in pallet.

Longitudinal closure: by using welding bars in full-width.

Lateral closure: by using welding, or hot air blowers, or ultrasonic sealing.

Outlet: on conveyor belt line.

OPTIONAL

Water proof packaging

Recognition system for inlet rolls

Automatic change of the polyethylene

Output roll weighing

Automatic roll unloading system

Barcode label management and printing

Conveyor belts for management of roll unloading

Basket lifting forks

Robot arm for rolls palletization



Quality control and packaging

Systems for inspection, cutting, rolling and packaging of fabrics, paper, and plastic

ONLINE

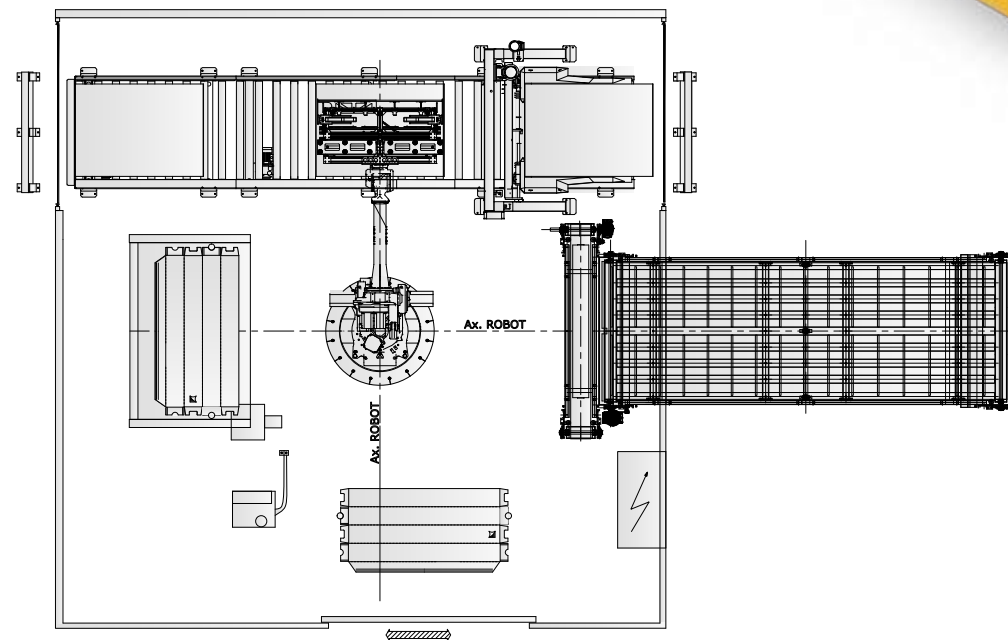
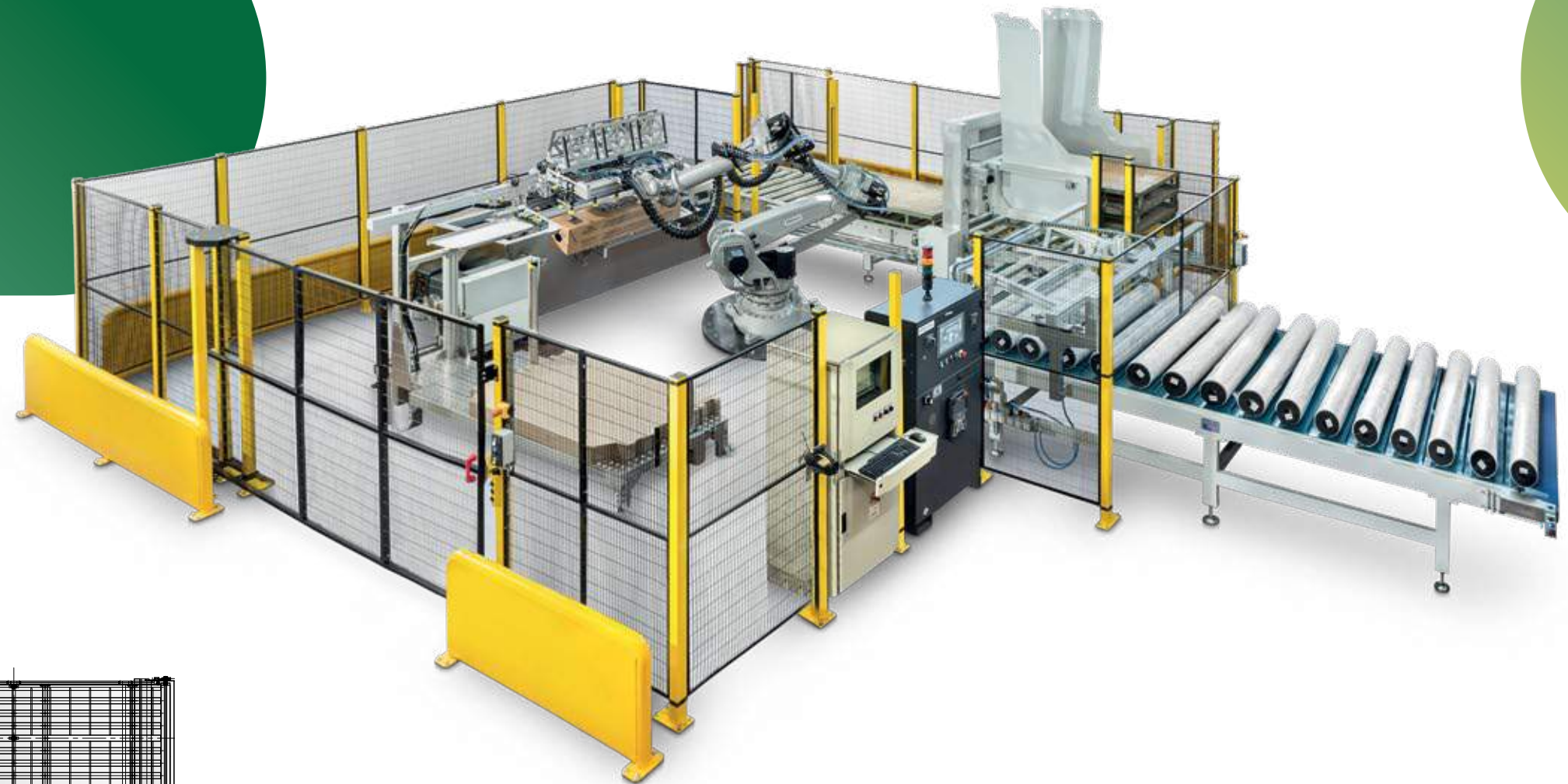


Description

The machine allows to close longitudinally and laterally the roll through polyethylene.

 Quality control and packaging

GENIUS PALLETIZING STATION



DETAILS

Lifting platform

Conveyor belt: motorized, with centering conveyor and vision system for optimal positioning.

Manual barcode reader

Robotic arm: with multifunctional arm claw.

Safety devices: emergency buttons managed by PLC and operator side safety door.

OPTIONAL

Box forming area: die-cut magazine, hot glue dispenser, packaging weighing by load cells.



 Quality control and packaging

Systems for inspection, cutting, rolling and packaging of fabrics, paper, and plastic



Description

For automatic boxing and palletizing of products.



INFINISHING SOLUTIONS



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