

MARZOLI NONWOVENS

Customized
nonwoven lines



HIGH QUALITY WEBS

Highest standards for opening
cleaning & carding



In some segments of the nonwoven sector the preparation of a high quality web has become of the utmost importance. The market requires that products at direct contact with the consumer's skin show high standards of softness, tenacity, resistance to pilling. On the other hand these products must also be economic and therefore use the minimum amount of fiber. These market requests have fostered nonwoven producers to increasingly use fibers of finer deniers and natural fibers such as cotton.

Although the products that can be obtained showcase extraordinary properties, the use of these fibers entail challenges on the nonwoven producers that process them. First of all, these fibers need to be finely opened to guarantee a fine carding and consequently the production of an even web, a feature that becomes

more important the lighter the web is. At the same time, Neps, dust and any other impurity (e.g. trash for natural fibers) needs to be removed.

With over 170 years of experience in the spinning sector, we have developed a deep understanding of the intricate processes and technologies involved. In the last 25 years, we have integrated the innovative advances learned from this sector into our highly customized nonwoven lines.

By combining traditional knowledge with modern techniques, we provide tailored solutions that meet the specific needs and challenges of the nonwoven industry, ensuring superior quality and performance.

EXPERIENCE & COMPETENCE FOR TAILOR MADE NONWOVEN LINES

KEY POINTS

- UNMATCHED QUALITY & FLEXIBILITY
- COMPETENCE OF MARZOLI & PARTNERS



Marzoli, one of the European leaders of spinning technology for short-staple fibers, through its competence in fiber preparation, strategic partnerships with some of the best European producers of downstream machines and through the experience acquired is today capable of offering customized nonwoven lines.

Relying on Marzoli means:

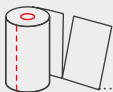
- To rely on a partner for the supply of a line of unmatched quality and flexibility
- To rely on the competence and technical skills of Marzoli and of its partners for the installation of the best technology and for its synchronization.



WIPES



MEDICAL AND SURGICAL PRODUCTS



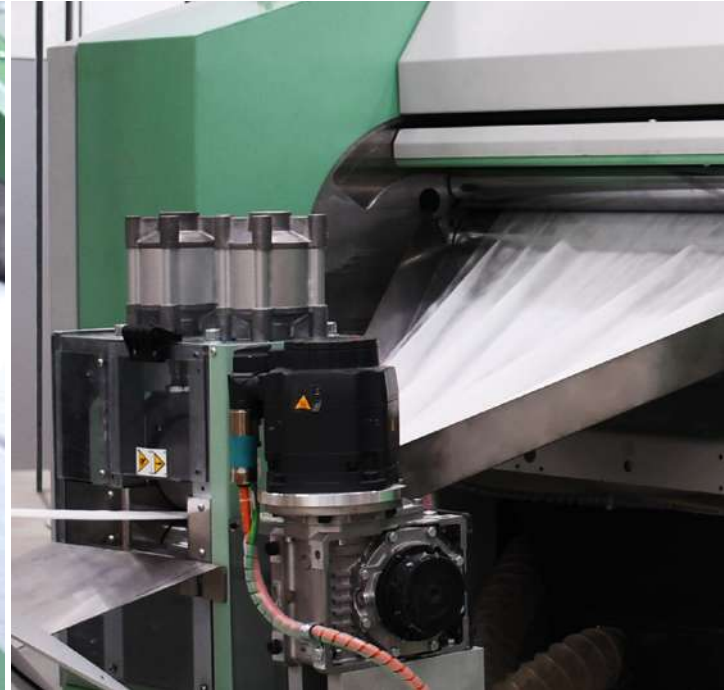
DISPOSABLE PRODUCTS



MARZOLI C702 NW

KEY POINTS

- HIGH PRODUCTION CARD WITH WORKING WIDTH OF 1,500 mm
- STRATEGIC PARTNERSHIPS FOR TURNKEY PLANTS OF HYGIENE AND MEDICAL PRODUCTS



A clear trend in the nonwoven sector is the rise of web quality: nonwoven manufacturers are increasingly required to produce webs with homogeneously-distributed fibers.

The machine that entails the highest quality results on nonwoven webs still remains the card with revolving flats also with short fibers.

This machine allows to card the fiber throughout a carding surface, ensuring high carding effectiveness. The results are especially clear with light web and when short fibers are processed.

Marzoli C702 NW is a high production card with a working width of 1,500 mm, that is a fundamental feature in nonwoven sector, since allow to:

- improve productivity, because the card can process a bigger amount of feed stock;
- enhance quality and carding effectiveness because the same amount of feed stock is distributed on a bigger carding area;

- reduce maintenance costs because the flats are less subject to wear, as the same amount of fibers is distributed on a greater carding surface
- produce larger webs (1.450 mm)

The large pre and post carding areas can be equipped with a high number of mote knives and stationary carding flats. 32 revolving flats in working position in the main carding area guarantee the best carding performance.

Marzoli C702 NW can be equipped with a different delivery modules so that different types of product can be produced in an efficient and automated way.

The customer can choose different delivery modules based on the production parameters and on the output format (sliver, web, strips, etc.).

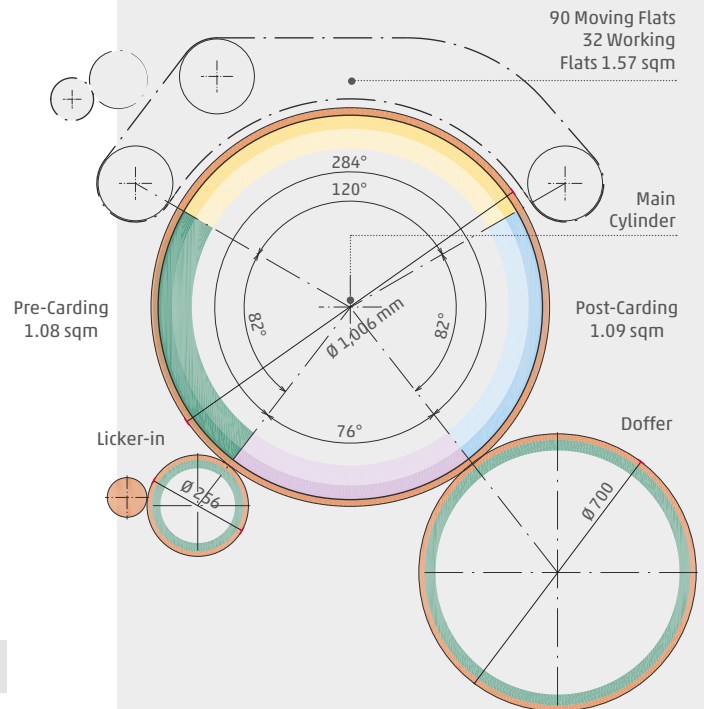
Best carding performance

In the design of the Card C702NW, the main cylinder has been raised and the licker-in and the doffer have been located underneath the main cylinder in order to reach a 284° carding angle (angle between the center of the licker-in and the center of the doffer).

Thanks to this configuration, the working width of 1,500 mm and the diameter of the main cylinder of 1,006 mm, Marzoli C702NW Card has a wide carding surface (3.74 sqm) allowing to achieve the best carding performance .

The carding surface is subdivided as follows: pre-carding area 1.08 sqm, moving flats area 1.57 sqm and the post carding area 1.09 sqm.

C702NW			
PRE CARDING AREA sqm	CARDING AREA sqm	POST CARDING AREA sqm	TOTAL AREA sqm
1.08	1.57	1.09	3.74



Carding density

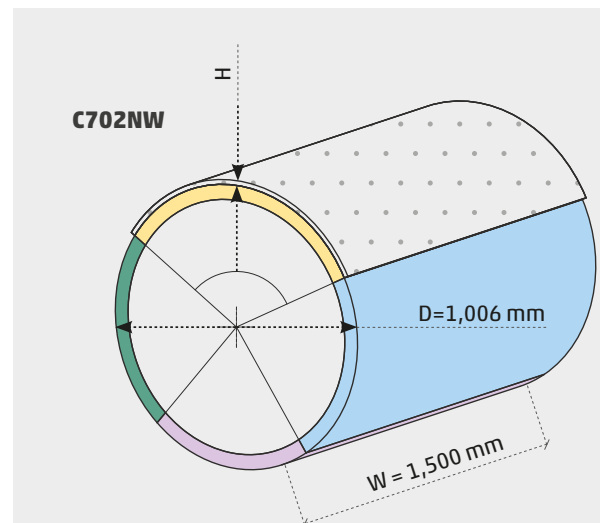
Under the same production levels, the geometry of Marzoli C702NW Card allows to reduce the density of the processed material in the carding area with mobile flats.

This entails a thinner layer (H) of the carded material with two positive effects:

1. Superior carding performance;
2. Lower mechanical stress on the cloths and the flats.

In fact, with other geometries with smaller diameter and lower working width of the main cylinder, in order to keep the same fibers carding density and achieve the same carding quality of Marzoli C702NW Card, it is necessary to increase the rotating speed of the main cylinder.

This entails damaging of the fibers, wear of the mobile flats and the carding cloths and high energy consumption.



TECHNICAL DESCRIPTION - LEGEND

- H Web height
- W Working width
- D Main cylinder diameter

PRE-CARDING, CARDING & POST-CARDING

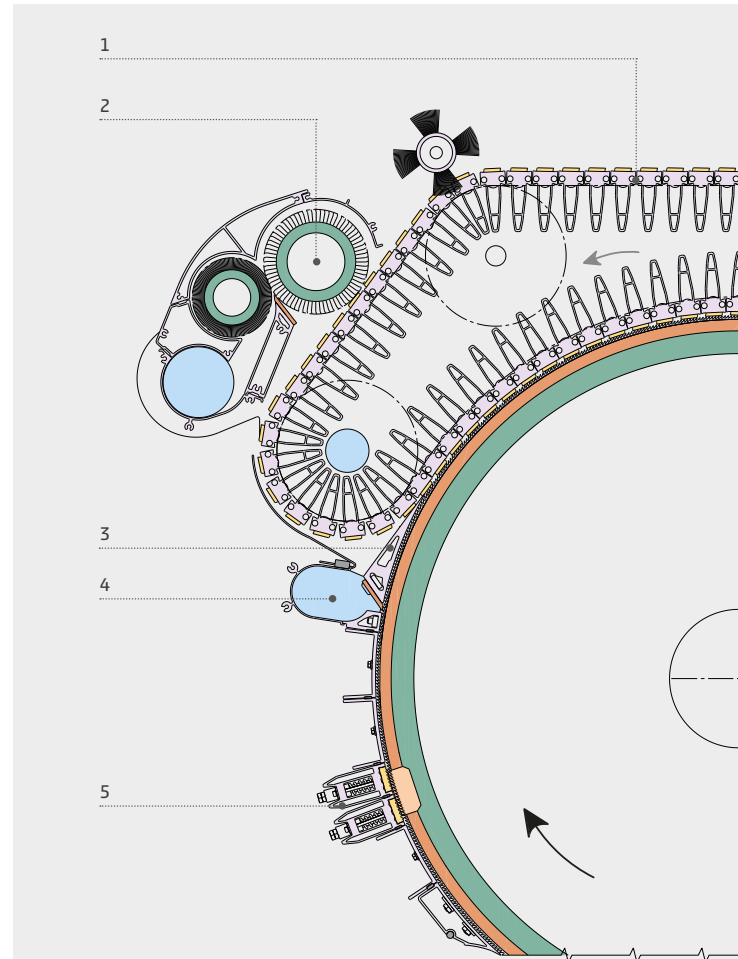
CARDING

At the heart of every card there is the mobile flats area, the carding zone dedicated to the removal of neps, trash and short fibers.

Marzoli Card C702NW has mobile flats area (1.57 m²) with 90 mobile flats, of which 32 always working, permits a 50% increase in production with the same ratio between the number of fibers and the number of points. This guarantees the quality of the output and durability of the card clothing.

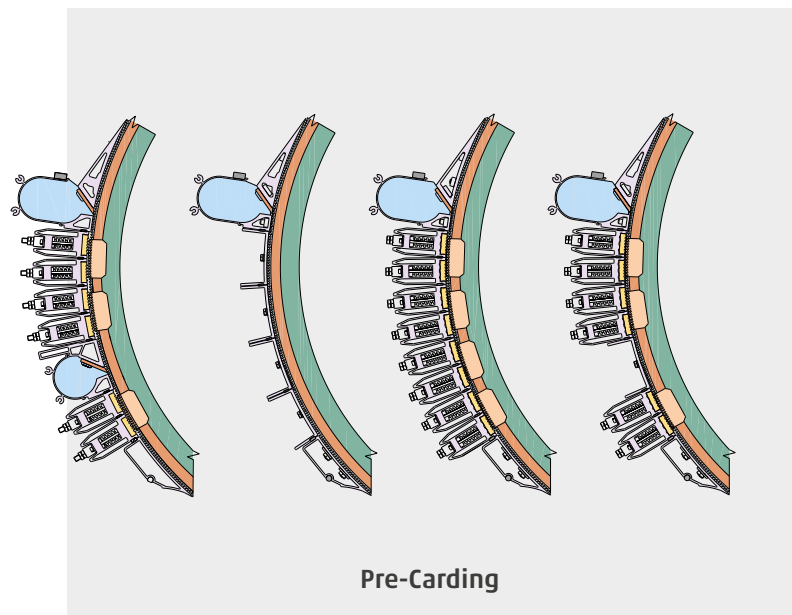
KEY POINTS

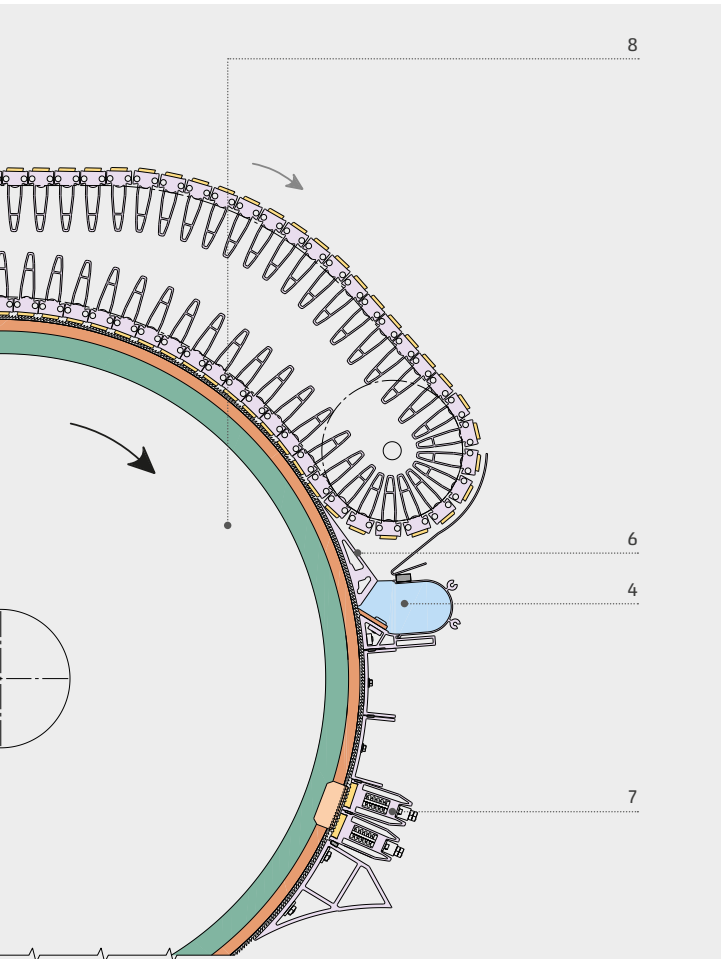
- TOP CARDING EFFECTIVENESS
- CONSTANT OUTSTANDING QUALITY LEVELS
- SPECIAL DESIGN FOR HIGH PRODUCTION & LOWER MAINTENANCE
- HIGHER PRESERVATION OF THE CARD COMPONENTS



PRE-CARDING

The Card C702NW has a pre-carding area of 1.08 sqm, that can be flexibly equipped by choosing the number of carding units and knives on the basis of the processed raw material: from 0 up to 8 carding units and up to 2 fiber control elements and with relative knife.





FIXED FLATS AND EASY SETTING

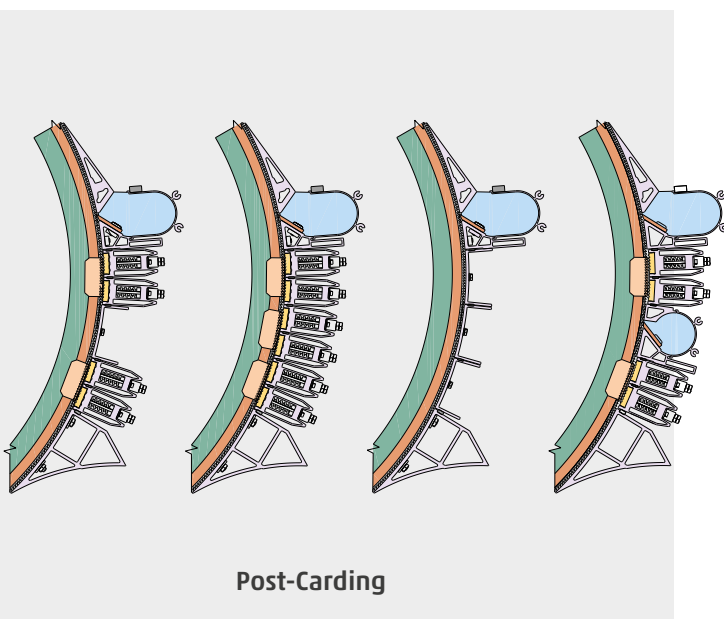
Pre and post carding areas can be equipped with a new frame configuration in which a single special support allows to remove 2 fixed flats at once and even preserving the flats registration. This halves maintenance time and cost when cleaning the machine and it is a great advantage in case of frequent fiber batch changings.

MACHINE DESCRIPTION - LEGEND

- | | | | |
|---|------------------------------------|---|----------------------|
| 1 | Revolving flats | 5 | Pre-carding segment |
| 2 | Flats cleaning device | 6 | Outlet cover |
| 3 | Inlet cover | 7 | Post-carding segment |
| 4 | Dedusting knife with suction hoods | 8 | Main cylinder |

POST-CARDING

The post carding area of 1.09 sqm can be flexibly equipped with different combinations of carding segments: from 0 to 6 carding units and up to 2 fiber control elements with relative knife.



DOFFER & SPECIAL APPLICATIONS

DOFFER

An efficient fiber transfer from the main cylinder to the doffer is important in the preparation of a uniform and high quality web. When the two metallic wires are closest to each other, the different speed of the two cylinders creates a carding action and causes the transfer of fibers from the main cylinder to the doffer.

The C702NW is designed to achieve:

- minimum mechanical distance between the main cylinder and doffer;
- large working surface between main cylinder and doffer (contact zone) thanks to the employment of a 700mm diameter doffer;
- an optimized airflow for an efficient transfer of the fiber.

The design and the highly precise construction of the main cylinder and doffer supporting structure are the premises for a stable and reliable production of high quality sliver.

SPECIAL APPLICATIONS

Air management system:

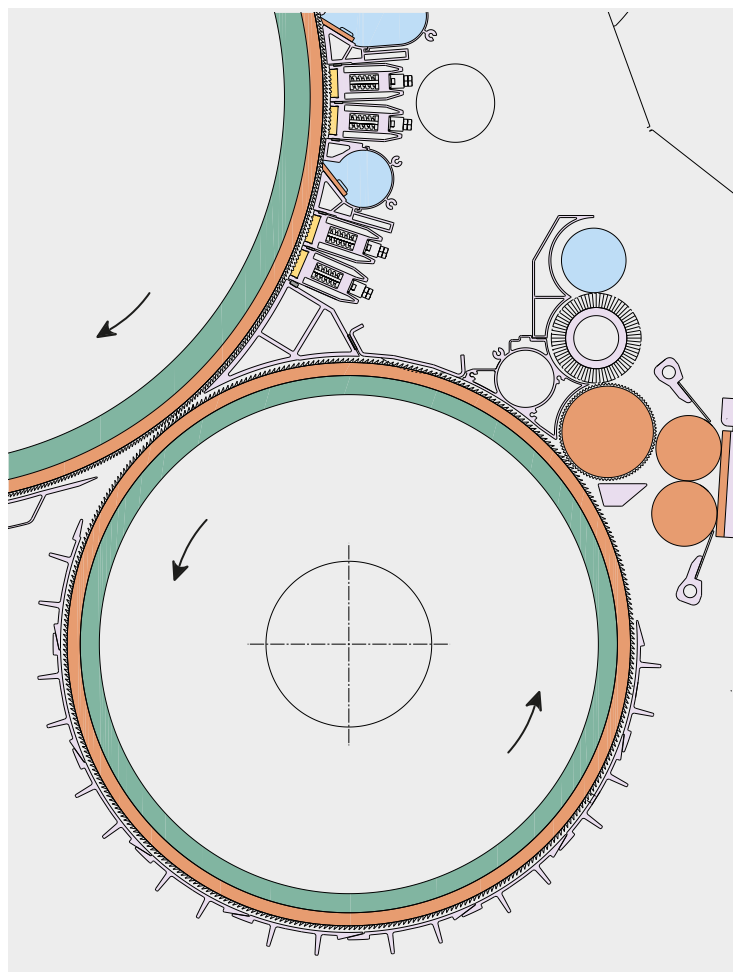
Marzoli has designed a specialized air management system that keeps all the machine's components free from dust and microfibers.

Silo feeding drive system:

To obtain higher web output (in terms of gsm) is often necessary to manage as well higher weight of the inlet fiber bat. To be successful in this aim Marzoli C702NW has got an enhanced power gearmotor on silo drive which helps to feed the machine with a more homogeneously distributed and heavier fiber batt.

KEY POINTS

- MINIMUM MECHANICAL DISTANCE BETWEEN MAIN CYLINDER & DOFFER
- LARGE CONTACT ZONE BETWEEN MAIN CYLINDER & DOFFER
- OPTIMIZED AIRFLOW FOR FIBER TRANSFER



SPECIAL DELIVERY MODULES

■ WEB CONDENSER

Marzoli C702NW can be equipped with a web condenser unit that allows to increase the standard web weight up to 60 gsm (depending on the type of fiber being processed).

Differently from the standard C702NW's web output, in this detaching unit 2 cylinders after the doffer give to the web the desired weight thanks to special wires and their fully modulated speed.

The cylinders are driven by independent motors in order to manage their own drafting parameters. 2 further detaching cylinders deliver the web to the metal chute.

The application (with its fairing) is retrofittable on existing cards and the overall machine length will increase by only 250 mm if compared to the standard web output.

PRODUCTIVITY: +20% compared to standard web output

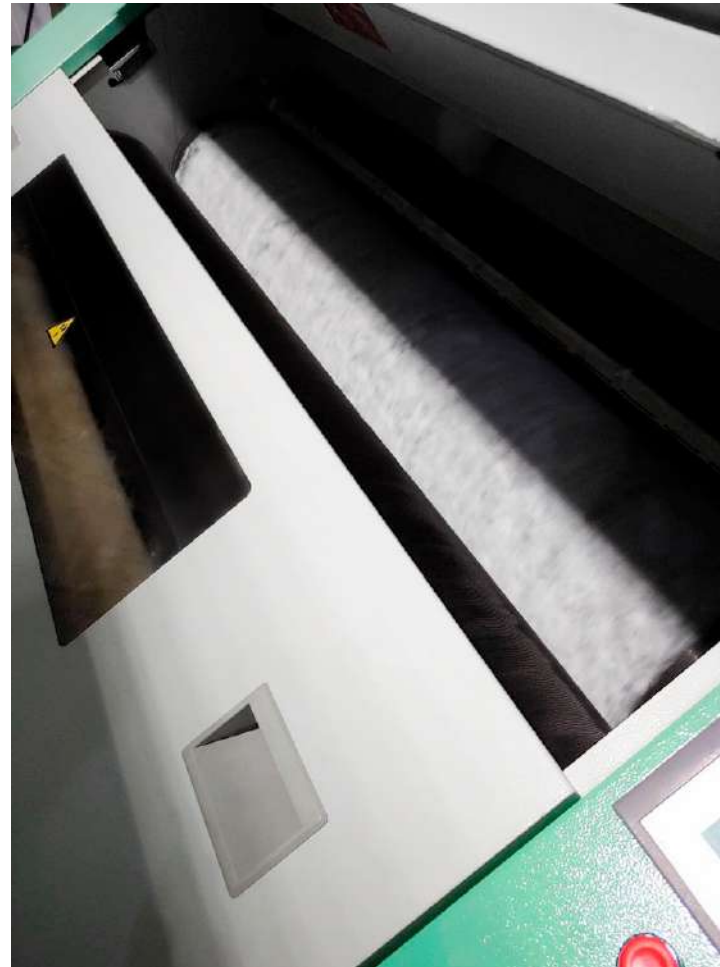
HEAVIER WEBS: up to 60 gsm

SUPERIOR CONDENSING EFFECT (rate from 0.3 to 0.6)

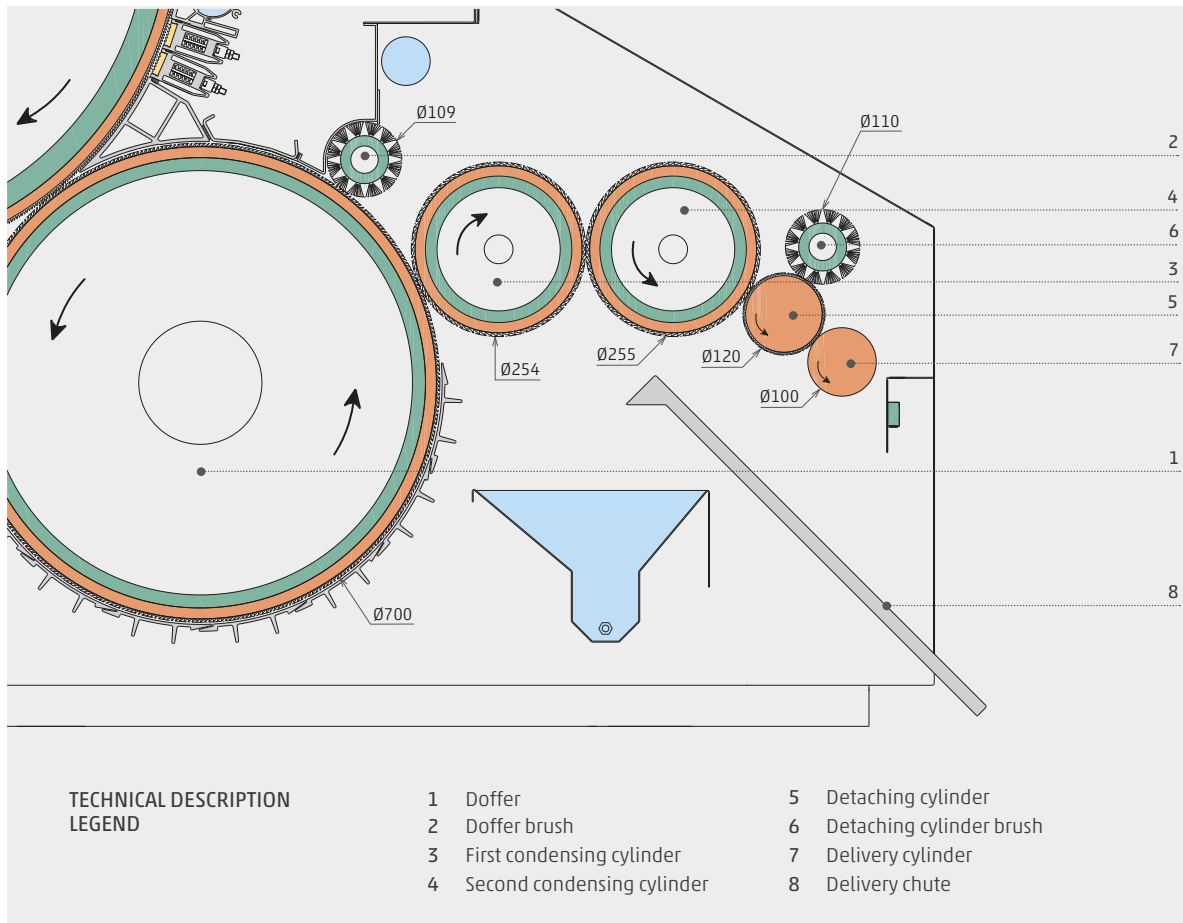
SPACE REQUIRED: only 250 mm length more respect to standard web output

KEY POINTS

- WEB CONDENSER FOR HEAVIER WEIGHT UP TO 60 gsm
- FULLY MODULATED CYLINDERS SPEED
- INDEPENDENT CYLINDERS DRAFTS



TECHNICAL DATA



STRIPS OUTPUT

Several applications have been studied for the nonwovens-medical sector. One of these solutions leads to the production, of a cotton strip whose width extends from 60 to 90 mm and can serve production lines which works from 120 to 250 gsm.

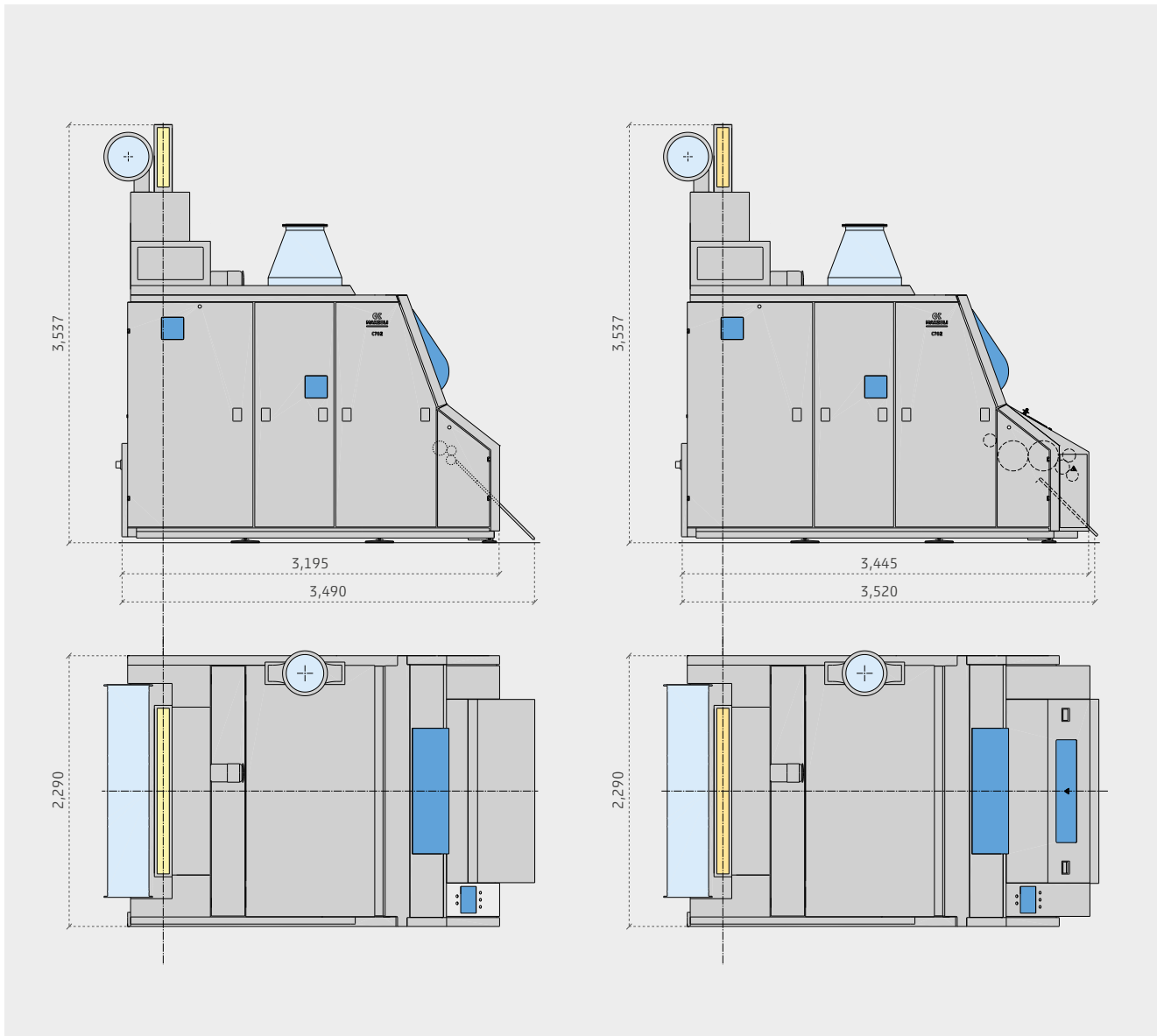
This specific output can be extracted directly from a special calender unit and this output constitutes the semi-finished product in most of medical production lines.

CUSTOMIZED DELIVERY OUTPUTS

Marzoli can realize specially customized delivery outputs to make with one card heavier webs used for example for the production of medical cotton.



TECHNICAL DATA



C702NW

Processed fibers	Cotton, man-made fibers and wool with staple length up to 65 mm (2" 1/2)
Production	Up to 270 Kg/h
Installed power	19.2 kW (22.3 kW with web condenser WEC)
Delivered output	up to 27 GSM (60 GSM with web condenser WEC)
Suction type	continuous

Compressed air

Free air consumption	1,000 NI/h
Pressure	8 bar

MARZOLI LINES

HYGIENE AND MEDICAL

Marzoli has developed strategic partnerships with selected partners in order to offer solutions for the production and packaging of hygiene and medical products. Marzoli partners offer cross lappers, calenders, automated transport systems and other specific machines for the production of:

- **Standard and perforated zig-zag.** These machines, directly connected with Marzoli cards, cut the cotton-wool band, earlier folded and prepared at the desired width.
- **Absorbent cotton rolls.** These machines, directly connected with Marzoli cards, produce rolls from 25 to 1,000 g with or without interleaving paper. They can also be equipped with a special external group to make cotton rolls of precut material so that single pads may be stripped. Embossing units are also available.
- **Cotton pads with standard or special shapes, e.g.** rectangular or squared, to minimize production waste. These machines can cut at the same time 3, 4 or 5 cotton pads.
- **Cotton balls.** These machines can be fed by cans or be directly connected to the card, offering different levels of automation and productivity.



SPUNLACE

Relying on Marzoli and its partners for the implementation of a spunlace line entails several advantages:

- **Unmatched quality**, in terms of evenness and cleanliness from any kind of impurity with any kind of fiber (also short fibers).
- **High isotropy:** MD/CD close to 1:1 thanks to the implementation of state-of-the-art cross lappers.
- **High productivity** through a card web width of 1,450 mm, and the possibility to lay one web on top of the other to increase the kg/h.
- **Possibility to produce stratified webs.** The arrangement of 3 or more cards and the possibility to feed them with separate feed lines allows to process different blends on each card. This allows to process one type of fiber for the external layers, the ones at contact with human skin, and another type of fiber for the inner layers.
- **Perfect synchronization** of the entire line and easy management through a monitor displaying all relevant production parameters.



FIBER PREPARATION

Pre processing line & carding machines for higher quality and flexibility in nonwovens

KEY POINTS

- PRE PROCESSING LINE AND FLAT CARDS FOR HIGHER QUALITY ON CARDED AND AIR LAID WEBS
- MACHINES DESIGNED TO BOOST PRODUCTIVITY, QUALITY AND REDUCE WASTE



Pre processing line and carding machines allow to:

- Dedust the fiber.
- Clean the fiber from impurities that may be contained, especially in natural fibers.
- Blend the raw material to ensure homogeneous properties of the end product.
- Progressively and finely open the raw material, a necessary pre condition for a perfectly even card web.

The substantial increase in quality results has fostered nonwoven producers working in the hygiene and

medical sector to adopt these machines even with air-laying technology.

The intensive opening action grants a better distribution of the fiber within the chute feed of the air laying machine and consequently a perfectly even web.

Pre processing line and flat cards have been installed also in combination with cross lappers on mechanical bonding and spunlace lines. The quality and flexibility that these lines have reached remains unmatched.

AUTOBLENDER B12NW

KEY POINTS

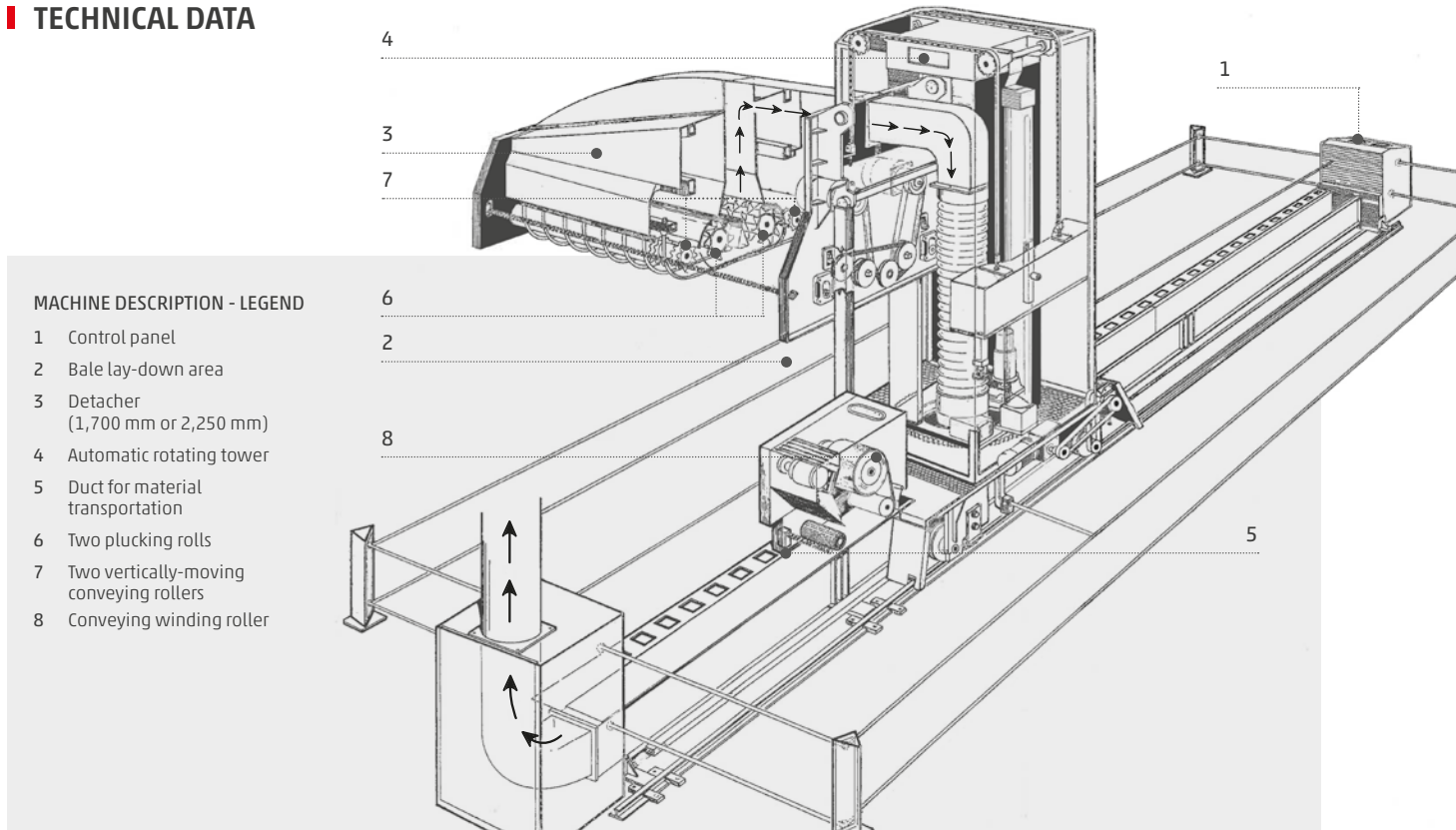
- 2 BEATERS CONVEYING ROLLERS AND GRID FOR FINE OPENING OF THE RAW MATERIAL
- MINIMUM STRESS OR CURLING OF FIBERS
- PRODUCTION UP TO 1,600 kg/h
- SETTABLE FOR TWO ASSORTMENTS



■ SUPERBLENDER B12NW OUTCOMES

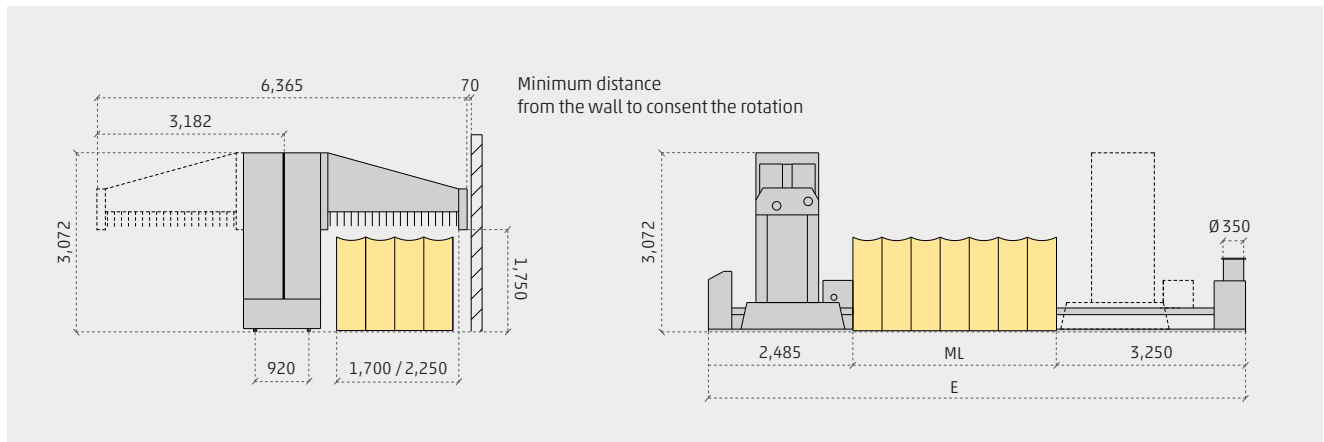
- Very small flocks thanks to the 2 beaters, each with 254 tips, the 2 moveable conveying rollers and the grid that control the material during plucking;
- smooth and continuous material plucking all the way down to the floor thanks to the free and upright movement of the detacher and to the moveable conveying rollers;
- suction from downstream cage condenser to avoid the formation helicoidal air flows within the transportation tubes and consequently neps formation.
- Vertically-movable grid with linear transducers to control tips penetration inside the bales and therefore adjust the amount of throughput (kg/h).

TECHNICAL DATA



MACHINE DESCRIPTION - LEGEND

- 1 Control panel
- 2 Bale lay-down area
- 3 Detacher (1,700 mm or 2,250 mm)
- 4 Automatic rotating tower
- 5 Duct for material transportation
- 6 Two plucking rolls
- 7 Two vertically-moving conveying rollers
- 8 Conveying winding roller



B12 NW

Processed raw material	Cotton, man-made fibers up to 65 mm (2 1/2")
One assortment	B12 - 1,700 mm up to 1,100 kg/h B12 - 2,250 mm up to 1,600 kg/h Production depending on the processed fibers
Two assortments	B12 - 1,700 mm up to 800 kg/h B12 - 2,250 mm up to 1,100 kg/h Production depending on the processed fibers
Installed power	B12 - 1,700 mm 7.92 total kW B12 - 2,250 mm 9.92 total kW
Space available for bales	ML= E - 5,735 mm
No. of bales each side for one assortment (according to bales dimensions):	· wide carriage (ML/B) x 1.5 or (ML/L) x 3 · small carriage (ML/B) or (ML/L) x 2 ML= space available for bales B= bale width L= bale length
Duct length	E 11.13 - 46.13 m in steps of 2.5 m
Net weight	B12 - 1,700 mm 3,500 kg B12 - 2,250 mm 3,700 kg Approx. 90 kg/m (for variable longitudinal parts)
Power Consumption to process 100 kg of raw material	0.68 kW

MIXER B143NW

KEY POINTS

- HIGH PRODUCTIVITY (1,600 KG/H)
- HIGH STORAGE CAPACITY
- ADDITIONAL ROLL
- BLENDING CHANNEL WITH BLOWING SYSTEM
- CHAIN TRANSMISSION DRIVE
- CHANNEL SHEETS WITH COATING TREATMENT



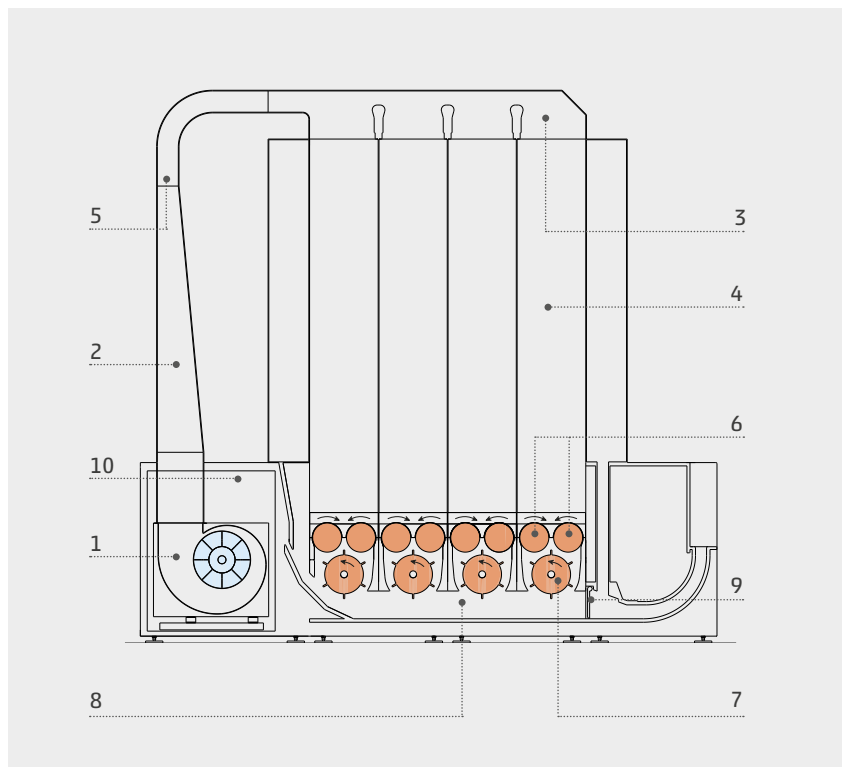
TECHNOLOGY FOR EFFECTIVE BLENDING AT HIGH PRODUCTION LEVELS

The B143NW is a mixer with high capacity, available with 4 or 8 blending chambers, capable of reaching 1.600 kg/h and a storage capacity of up to 550 kg (8 blending chambers).

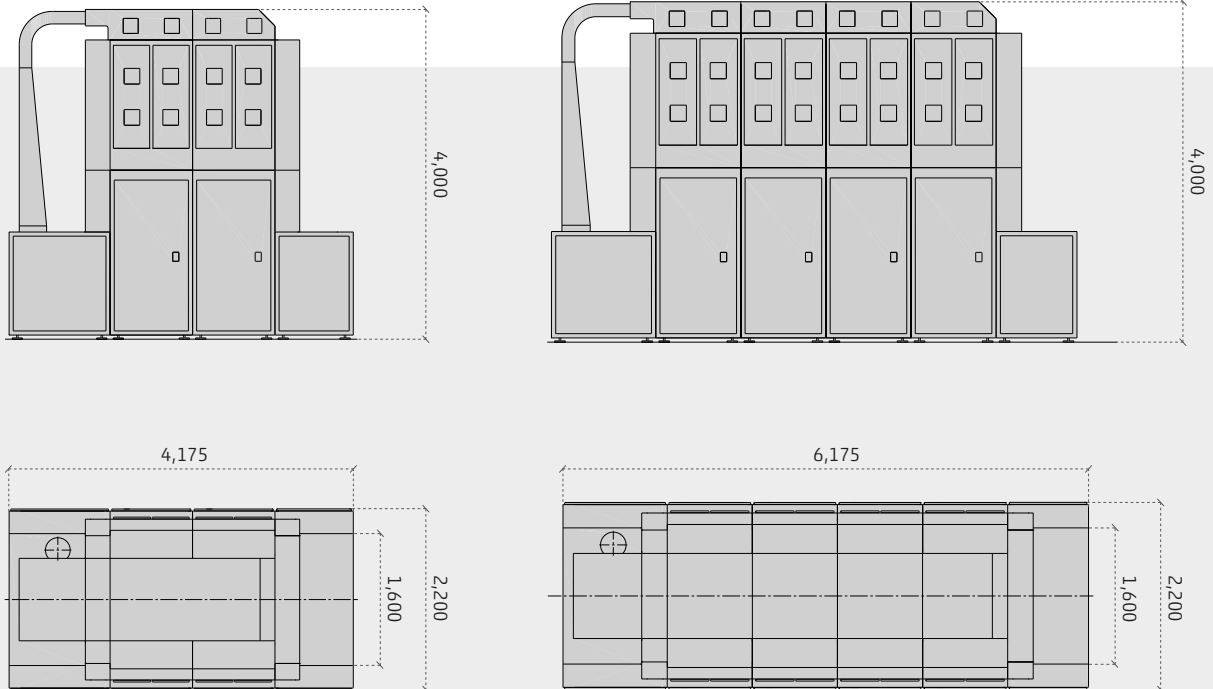
The great area of the blending cells allows to have one of the greatest surface available for dedusting. Moreover, the innovative design of the transport fan allows to keep neps formation in the raw material to a minimum.

MACHINE DESCRIPTION - LEGEND

- | | |
|-----------------------|--------------------|
| 1 Motorfan | 6 Delivery rolls |
| 2 Feed duct | 7 Opening rolls |
| 3 Distributing duct | 8 Blending channel |
| 4 Blending chambers | 9 Air by-pass |
| 5 Pressure transducer | 10 Microprocessor |



TECHNICAL DATA



B143NW

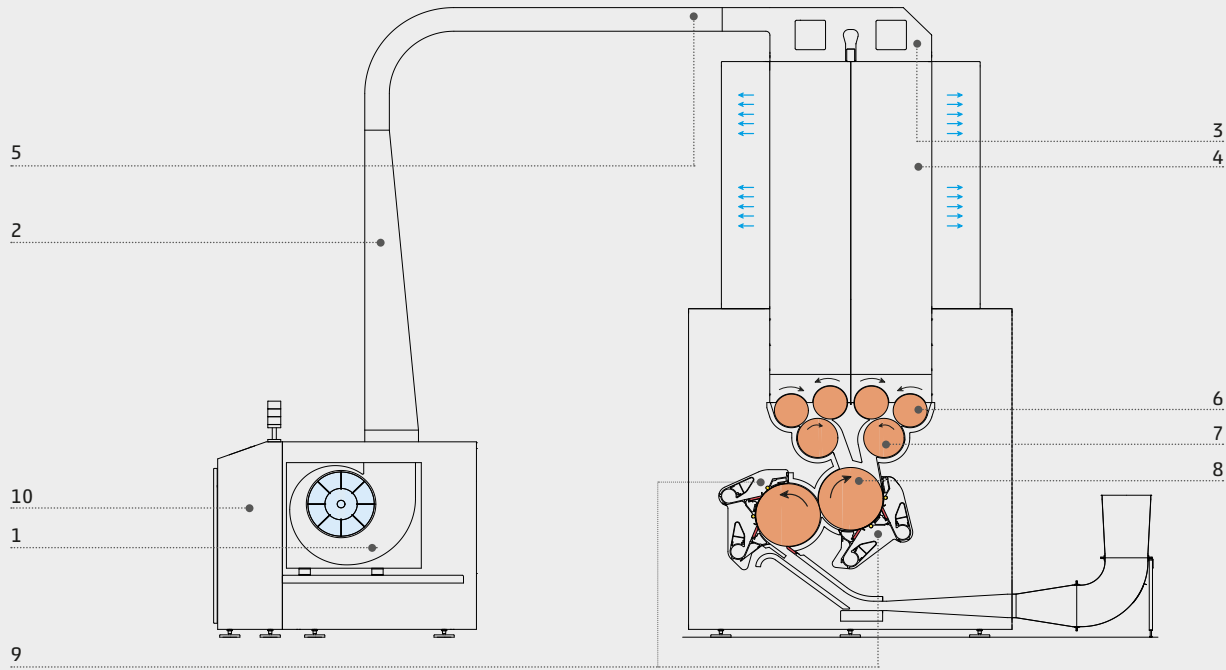
Processed material	Cotton, man-made fibres and blends up to 65 mm length Production up to 1,600 kg/h with 8 chambers depending on the processed raw material
Storing capacity	550 kg cotton fibers (8 chambers) 450 kg man made fibers (8 chambers)
Installed power including B152	11.2 kW (4 chambers) 11.4 kW (8 chambers)
Working width	1,600 mm
Net weight	4,000 kg (4 chambers) 5,200 kg (8 chambers)

Power Consumption to process 100 kg of raw material 0.71 kW

INTENSIVE OPENER B380NW

KEY POINTS

- GENTLE BUT INTENSIVE OPENING
- EXCELLENT BLENDING
- PRODUCTION UP TO 1,000 Kg/h
- CLOSED FLAPS TO AVOID WASTE



TECHNOLOGY FOR A GENTLE BUT INTENSIVE OPENING AND CLEANING ACTION

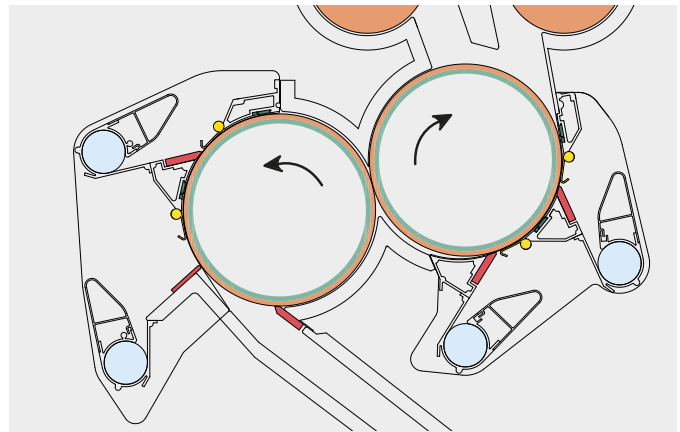
The B380NW allows to open the raw material in a gentle but intensive way while working at high production levels.

The result is achieved through a progressive opening action that only Marzoli's B380NW can give thanks to its 2 pre opening rollers, 2 beaters and 4 carding segments.

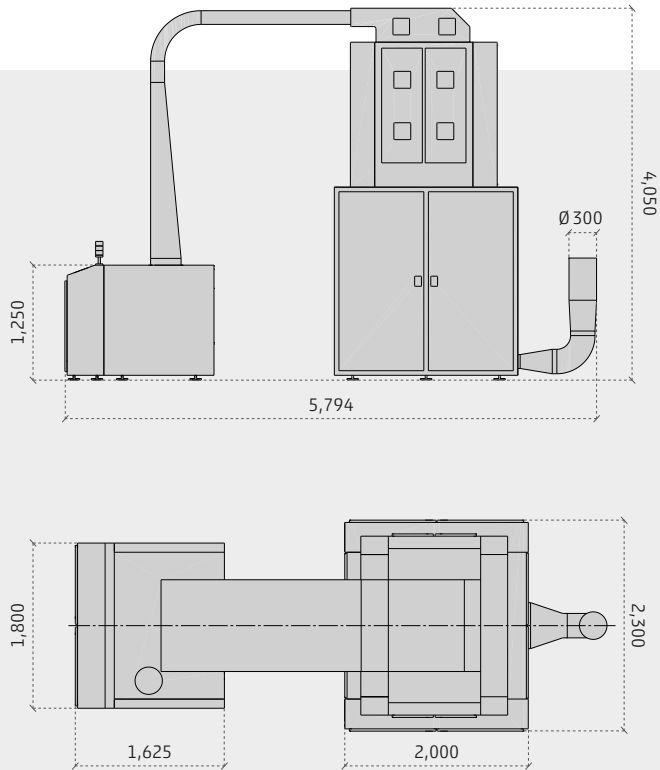
MACHINE DESCRIPTION - LEGEND

- | | |
|-----------------------|--------------------|
| 1 Motorfan | 6 Delivery rolls |
| 2 Feed duct | 7 Preopening rolls |
| 3 Distributing duct | 8 Beaters |
| 4 Blending chambers | 9 Opening grids |
| 5 Pressure transducer | 10 Microprocessor |

- KNIVES
- DEFLECTORS
- SEGMENTS



TECHNICAL DATA



B380L

Processed material	Cotton, man-made fibers and blends up to 1,000 kg/h depending on the processed material
Installed power	16.62 kW
Frame width	1,600 mm
Opening roll	400 mm dia.
Speed range	600 - 1,100 rpm
Net weight	4,340 kg

Power Consumption to process 100 kg of raw material	1.62 kW
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SINGLE ROLLER OPENER B134NW

KEY POINTS

- PRODUCTION UP TO 1,600 Kg/h
- LOW INVESTMENT & PRODUCTION COSTS
- HIGH FLEXIBILITY
- INCREASED CHUTE FEED
- CHAIN TRANSMISSION DRIVE

EFFICIENT OPENER WITH THROUGHPUT UP TO 1,600 kg/h

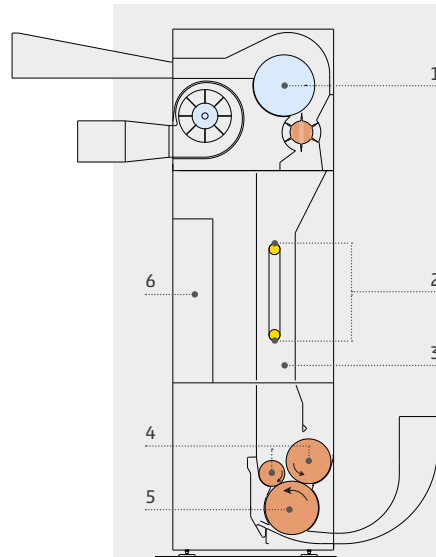
- Suitable to process cotton, man-made fibers and blends up to 65 mm (2 1/2") staple length;
- frame width: 1,600 mm;
- production: up to 1,600 kg/h;
- excellent approachability.

High flexibility

The B134NW flexibility is obtained thanks to three interchangeable opening rolls:

- opening roll with 10,240 pins;
- opening roll with 14,880 needles;
- opening roll with sawtooth.

The opening roll is chosen according to the working material and the position of the machine in the process. The machine can also be equipped with a carding segment to increase the opening effect.

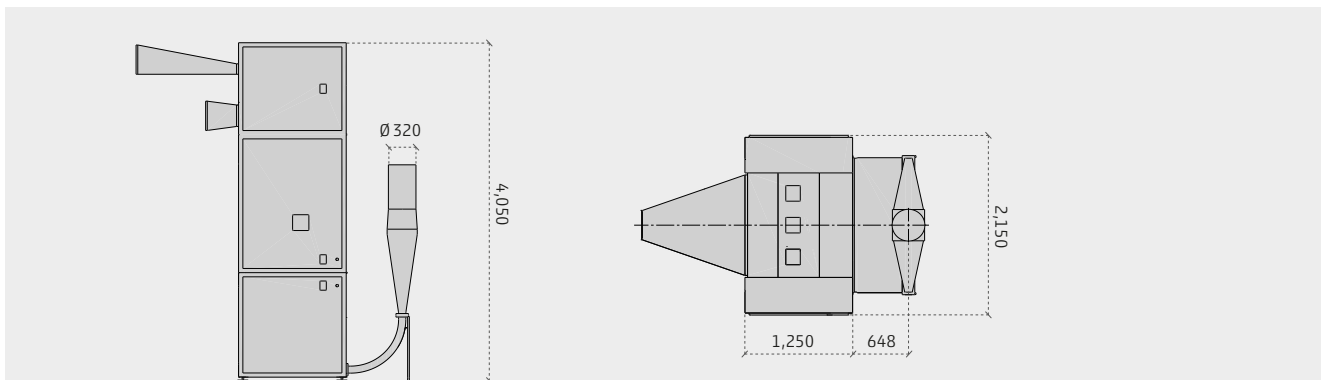


MACHINE DESCRIPTION - LEGEND

- 1 Cage Condenser B450NW
- 2 Photocells
- 3 Chute feed
- 4 Feed rolls
- 5 Opening roll
- 6 Electronic Control Panel



TECHNICAL DATA



B134NW

Processed material	Cotton, man-made fibers and blends up to 65mm. Production up to 1,600 kg/h depending on the processed fibers
Installed power	4.18 kW
Frame width	1,600 mm
Weight	3,400 kg
Power Consumption to process 100 kg of raw material	0.26 kW

CAGE CONDENSER B450NW

EFFECTIVE AND EFFICIENT DEDUSTING

The design of the feeding duct and the large working width of the perforated cylinder ensure a strong impact of the tufts against the cylinder while the optimized air flow for fiber transportation ensures low power consumption.

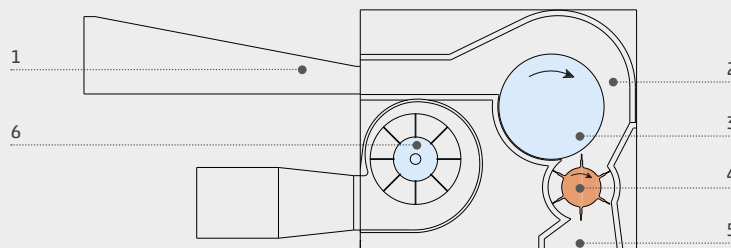
The perforated cylinder is sucked from both sides through an integrated motor fan.

This ensures that the tufts are better distributed on the cylinder and better dedusted.

B450NW constitutes a smart solution also because it does not curl or damage the fibers in any way.

KEY POINTS

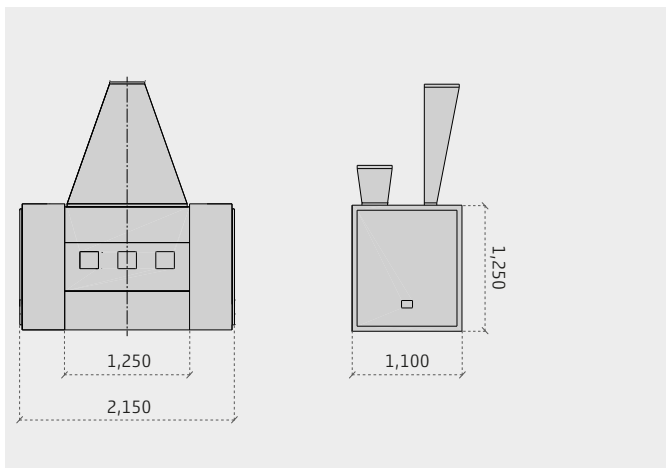
- HIGH DEDUSTING SURFACE
- NO NEPS CREATION
- PRODUCTION ABOVE 1,600 kg/h
- DUST SEPARATOR WITH EASY ACCESS FOR INSPECTION



MACHINE DESCRIPTION - LEGEND

- 1 Feeding duct
- 2 Feeding box
- 3 Perforated cylinder
- 4 Detaching roller
- 5 Material delivery
- 6 Motor fan

TECHNICAL DATA



B450NW

Processed material Cotton, man-made fibers and blends
up to 65 mm - Production up to 1,600 kg/h
depending on the processed raw material

Installed power 0.75 kW machine main motor
Two options for the motorfan:
7.5 kW - 11 kW

Working width 1,250 mm

Air capacity from 3,500 to 7,500 m³/h

Power Consumption to process 100 kg of raw material, included motorfan
from 0.39 up to 0.73 kW

CARD LINE FEEDING SYSTEM B153NW

KEY POINTS

- HIGH INVESTMENT SAVINGS
- EFFECTIVE OPENING
- GREAT EFFICIENCY

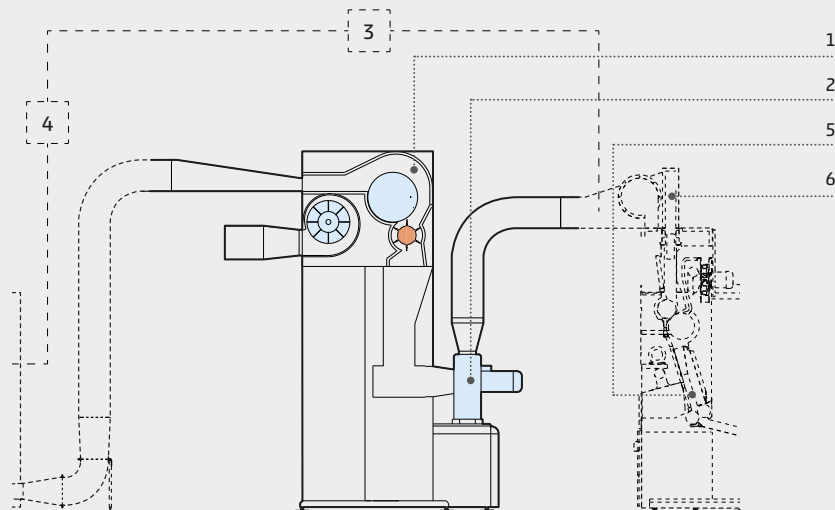
CARD FEEDING SYSTEM

The card feeding system is composed by a B450NW cage condenser and a B153NW motor fan. This system ensures constant and homogeneous feed to the cards.



MACHINE DESCRIPTION - LEGEND

- 1 Cage condenser B450NW
- 2 Fan B153NW
- 3 Pressure transducer
- 4 Control unit
- 5 Chute feed
- 6 Control feed duct



Motorfan B153NW

Processed material	Cotton, man-made fibers and blends up to 800 kg/h. Production depending on the processed fibers
Installed power	4 kW
Fan diameter	425 mm
Fan speed	1,200 - 2,400 rpm
Air flow	Maximum 4,000 m ³ /h
Weight	100 kg

B13NW HOPPER AND B23NW TUFT BLENDING

KEY POINTS

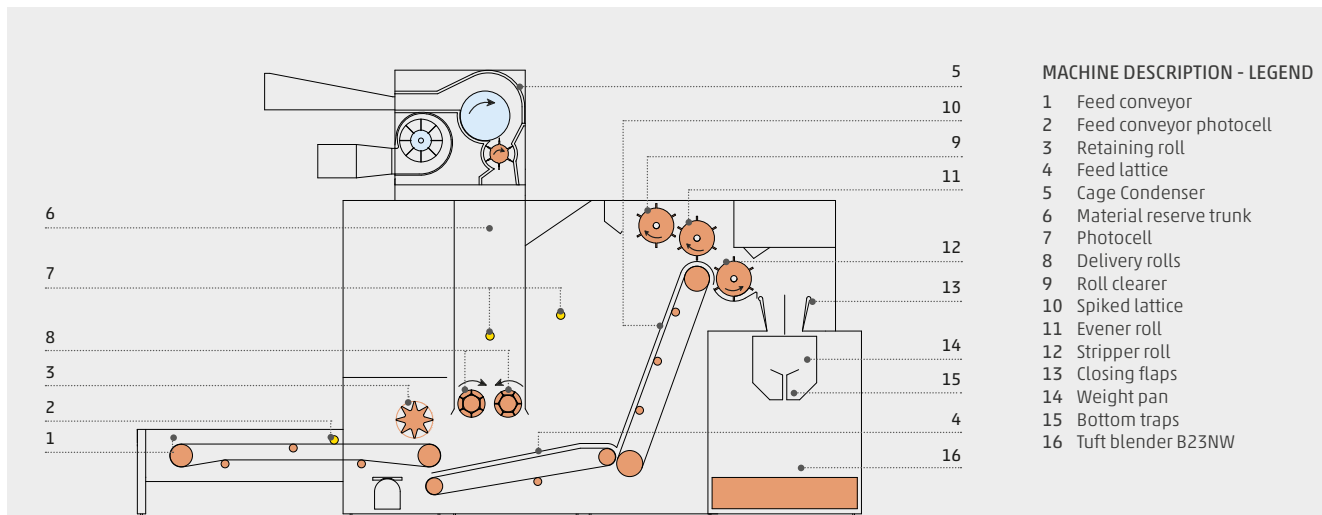
- PERFECT TUFT BLENDING
- HIGH WEIGHING ACCURACY
- HIGH PRODUCTIONS
- UP TO 5 COMPONENTS IN THE BLEND
- PERFECT SOLUTION FOR FLEXIBLE PRODUCTION PROGRAMS

THE QUALITY OF BLENDING IS FAR BETTER THAN OTHER SYSTEMS

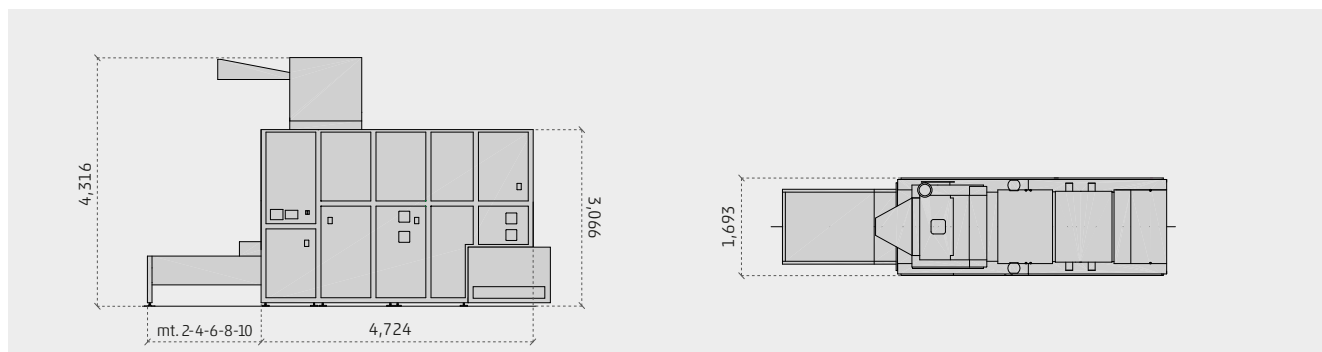
An effective solution for tuft blending is the combination of two or more B13NW hopper and one B23NW tuft blender. Thanks to the optimum weighing precision and self calibration of the 1,200 mm weighing pan this solution ensures perfect blends. The operator, through a display presets the target

weights for each B13NW in order to achieve the desired tuft blend.

The B13NW achieve the maximum weighing accuracy, with an average weighing discrepancy of less than 1%, not affected by variations in density, volume or type of fiber being processed.



TECHNICAL DATA



B13NW

Processed material	Cotton, man-made fibers and blends up to 350 kg/h Production depending on the processed fiber
Installed power	4.43 kW excluding B450NW
Weighth	4,100 kg excluding feeding lattice

Power Consumption to process 100 kg of raw material 1.26 kW

HIGH PRODUCTION HOPPER B14NW

KEY POINTS

- PERFECT OPENING
- EFFECTIVE BLENDING
- PRODUCTION UP TO 600 kg/h
- IDEAL COMPROMISE BETWEEN PRODUCTION, COSTS AND SPACE NEEDED

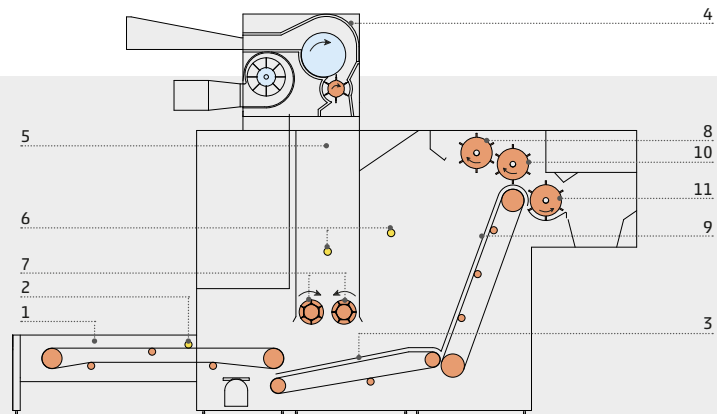
FEEDING MACHINE FOR SMALLER PRODUCTIONS

- Suitable for processing cotton and man-made fibers up to 65 mm (2 1/2") staple length;
- frame width: 1,200 mm;
- production: up to 600 kg/h with manual feeding;
- the length of the feed table can be adapted to the space available;
- the B14NW, can be fed also automatically (through the B450NW Cage Condenser)
- evener roll can be adapted from the touch screen in order to effectively balance productivity and blending effect.

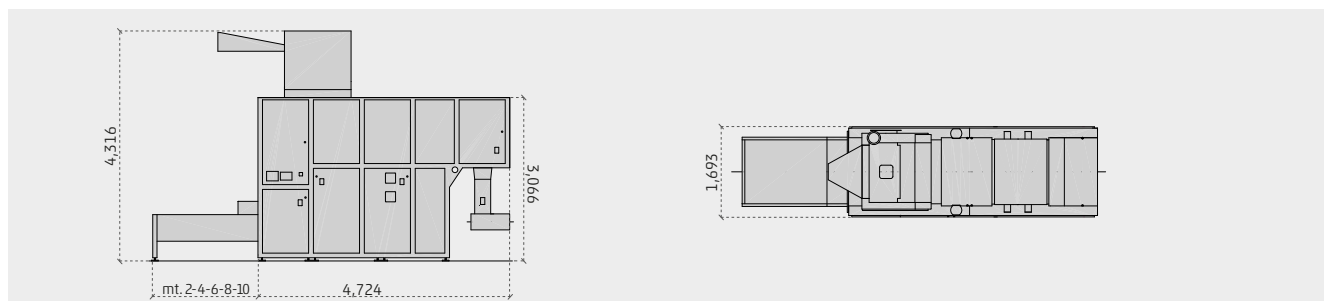


MACHINE DESCRIPTION - LEGEND

- 1 Feed conveyor
- 2 Feed conveyor photocell
- 3 Feed lattice
- 4 Cage condenser
- 5 Material reserve trunk
- 6 Photocell
- 7 Delivery rolls
- 8 Roll clearer
- 9 Spiked lattice
- 10 Evener roll
- 11 Stripper roll



TECHNICAL DATA



B14NW

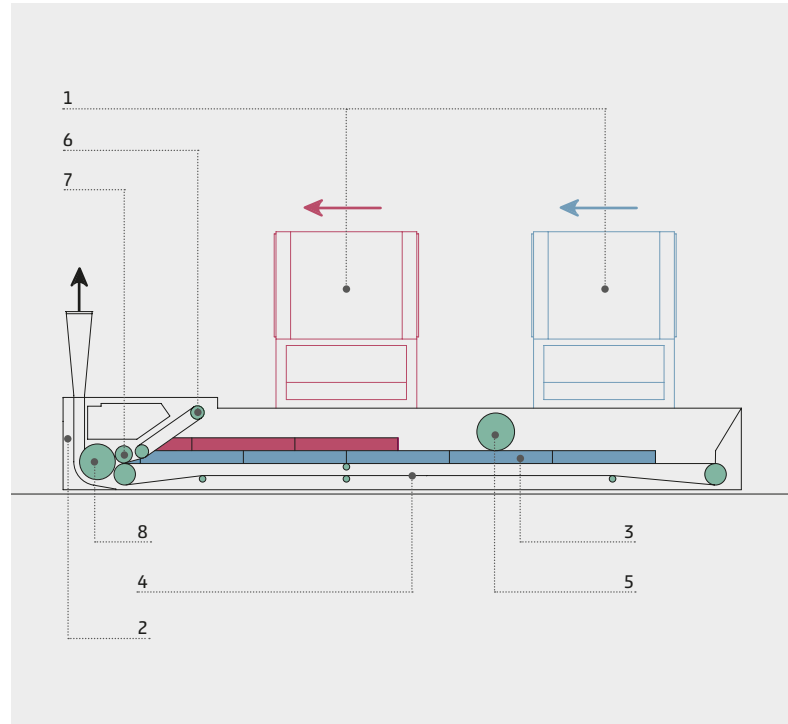
Processed material	Cotton, man-made fibers and blends up to 600 kg/h. Production depending on the processed fiber
Installed power	4.43 kW excluding B450L
Weight	4,000 kg excluding B450L
Power Consumption to process 100 kg of raw material	0.44 kW

B23NW TUFT BLENDER WITH ONE DELIVERY

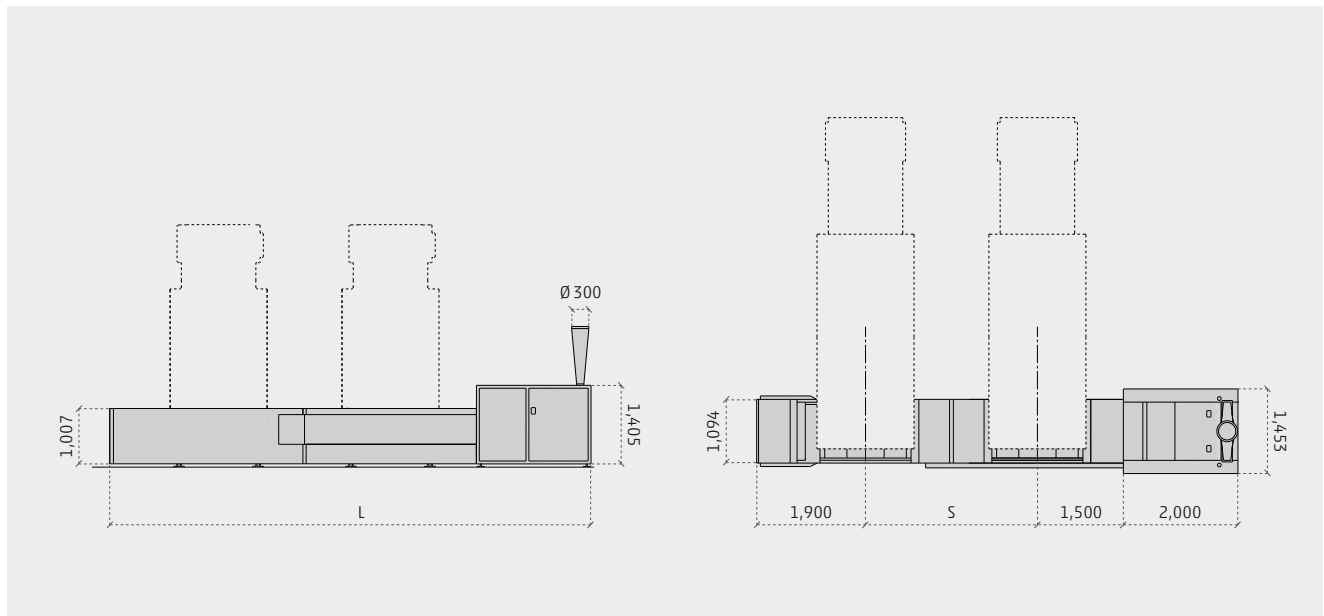
- Maximum production up to 1,000 kg/h with a frame width of 1,000 mm;
- The B23NW Tuft Blender can be fed by up to five B13NW . This machine discharge the material on the conveyor belt of the tuft blender; the different blend components are placed on top of each other in layers.

MACHINE DESCRIPTION - LEGEND

- | | |
|------------------------------|------------------|
| 1 B13NW Weighing Bale Opener | 5 Pressure roll |
| 2 B23NW Tuft Blender | 6 Pressure table |
| 3 Blending table | 7 Pincer roll |
| 4 Conveyor belt | 8 Opening roll |



TECHNICAL DATA



B23NW	
Processed material	Cotton, man-made fibers and blends up to 1.000kg/h Production depending on the processed fiber
Installed power	2.75 kW
Weight	From 2,210 kg to 4,110 kg according to the width
Power Consumption to process 100 kg of raw material	0.27 kW

Gauge S	3,000	4,200	5,400
N° B13	L	L	L
2	8,400	9,600	10,800
3	11,400	13,800	16,200
4	14,400	18,000	21,600
5	17,400	22,200	27,000

MANUAL HOPPER B15NW

The feeding machine for small amounts of raw material



KEY POINTS

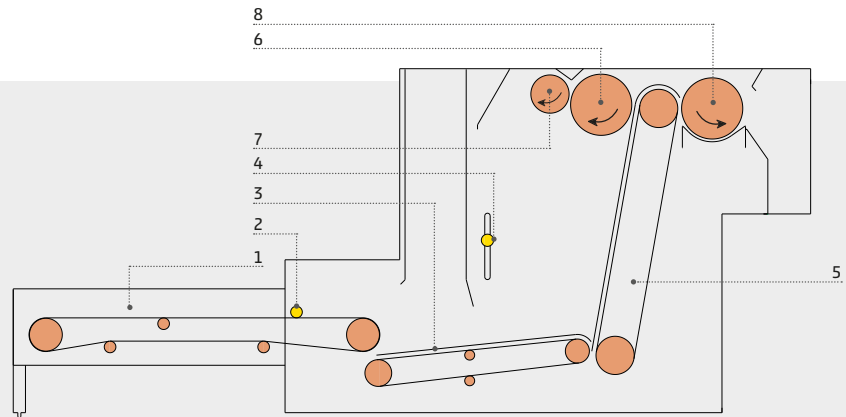
- PERFECT SOLUTION FOR RECOVERED FIBERS & SMALL LOTS
- LOW INVESTMENT COST
- HIGH EFFICIENCY
- PRODUCTION UP TO 300 Kg/h

The B15NW manual hopper is the ideal solution to recover the good fiber that was discarded in downstream processes and to process little amounts of raw material. The main features are:

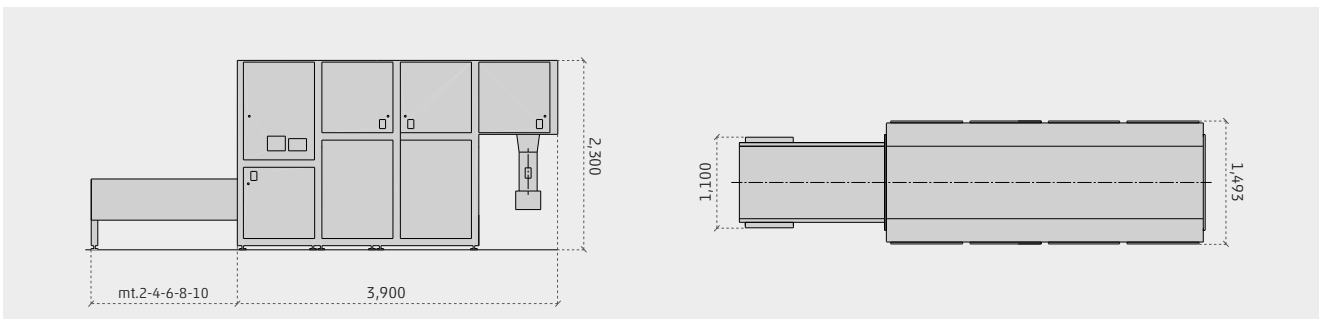
- High flexibility: easy to change from one material to another.
- Production up to 300 kg/h as raw material feeder, 80 kg/h as recovered fiber feeder.
- Feed conveyor from 2 to 10 meters.

MACHINE DESCRIPTION - LEGEND

- 1 Feed conveyor
- 2 Feed conveyor photocell
- 3 Feed lattice
- 4 Photocell
- 5 Spiked lattice
- 6 Evener roll
- 7 Stripper roll
- 8 Detaching roll



TECHNICAL DATA



B15NW

Processed material	Cotton, man-made fibers and blends up to 300 kg/h. Production depending on the processed fiber
Installed power	3.12 kW
Weight	2,500 kg
Power Consumption to process 100 kg of raw material	0.91 kW

MANUAL HOPPER B15NW & OPENER B18NW

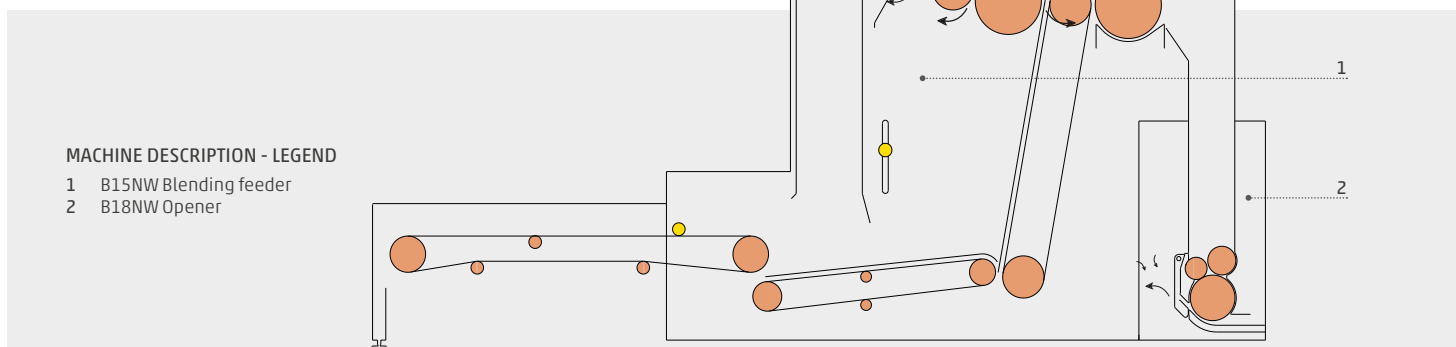
The best combination of hopper & opener for small lines

The combination of the B15NW hopper with the B18NW opener constitutes a valuable and efficient solution to process all kind of fibers.

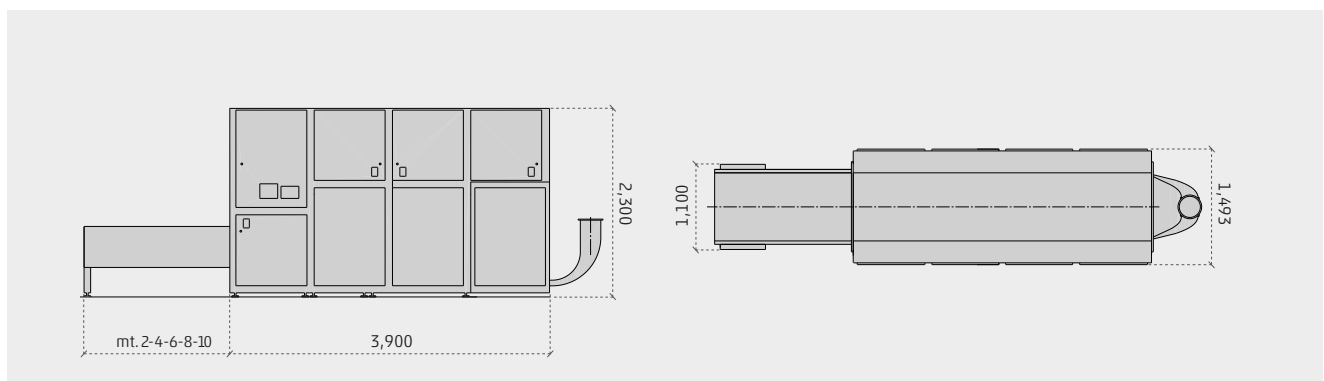
- Suitable to process cotton, man-made fibers and blends up to 65 mm (2 1/2") staple length;
- frame width: 1,000 mm;
- production up to 300 kg/h;

KEY POINTS

- HIGH INVESTMENT SAVINGS
- EFFECTIVE OPENING
- GREAT EFFICIENCY



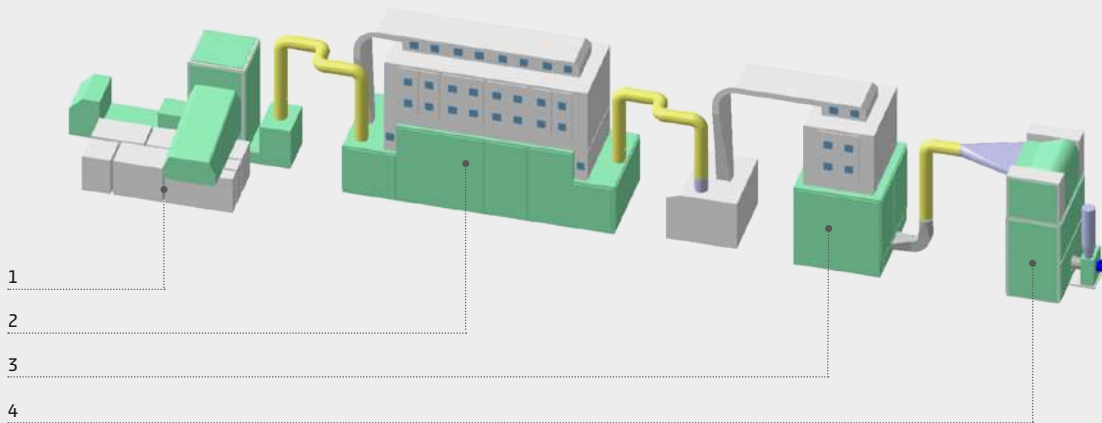
TECHNICAL DATA



B15NW - B18NW	
Processed material	Cotton, man-made fibers and blends up to 300 kg/h. Production depending on the processed fiber
Installed power	4.99 kW
bale opener B15NW	3.12 kW
Opener B18NW	1.87 kW
Weigth B18NW	620 kg
Power Consumption to process 100 kg of raw material	1.66 kW

GALILEO BLOW ROOM LINES

Full-automatic intensive
pre-processing line

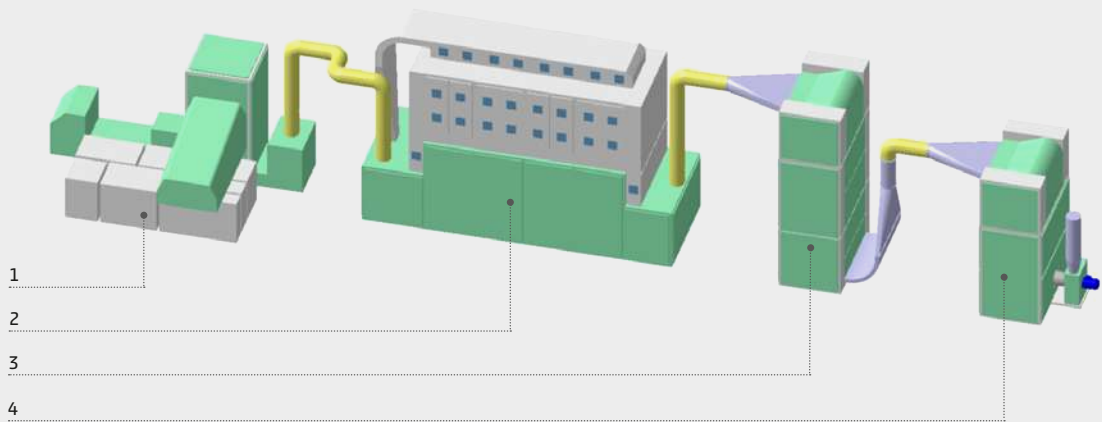


TECHNICAL DESCRIPTION - LEGEND

- | | |
|----------------------|----------|
| 1 B12NW | 3 B380NW |
| 2 B143NW, 8 chambers | 4 B153NW |

Production	Up to 1,000 kg/h
Blending	8 x 2 = 16

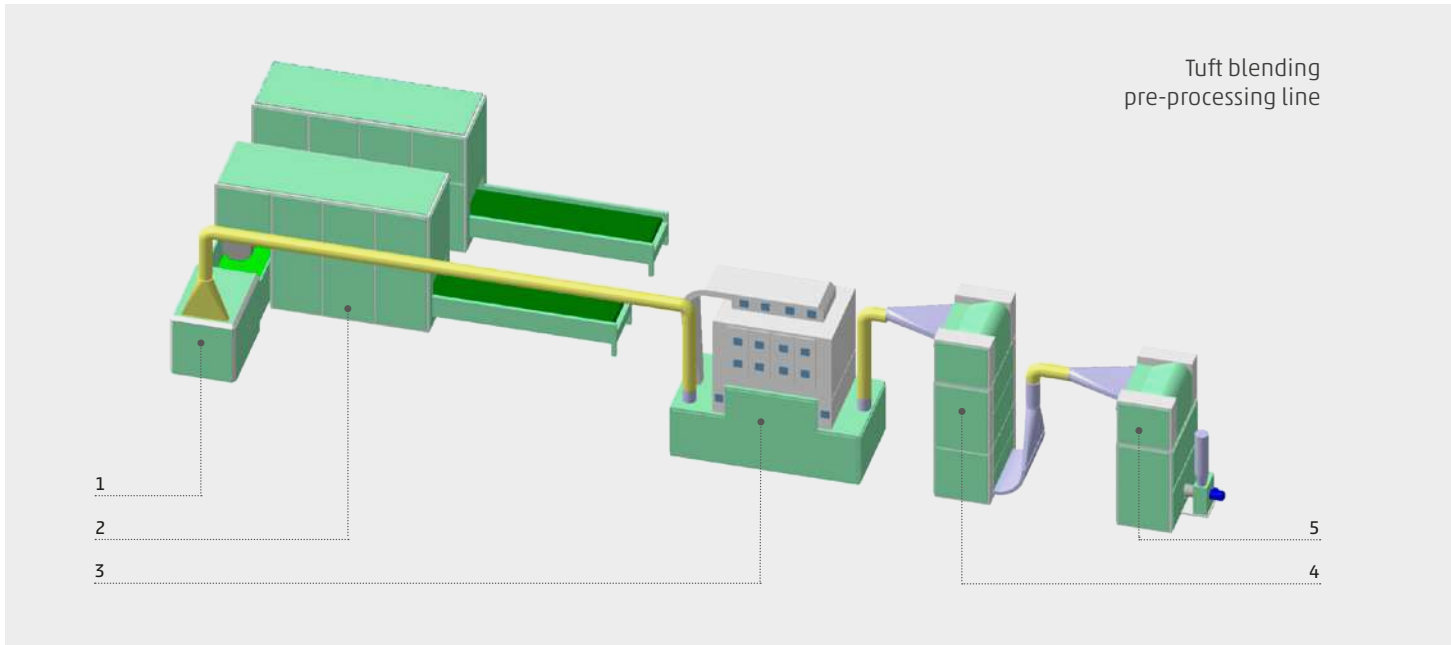
Full-automatic
pre-processing line



TECHNICAL DESCRIPTION - LEGEND

- | | |
|----------------------|----------|
| 1 B12NW | 3 B314NW |
| 2 B143NW, 8 chambers | 4 B153NW |

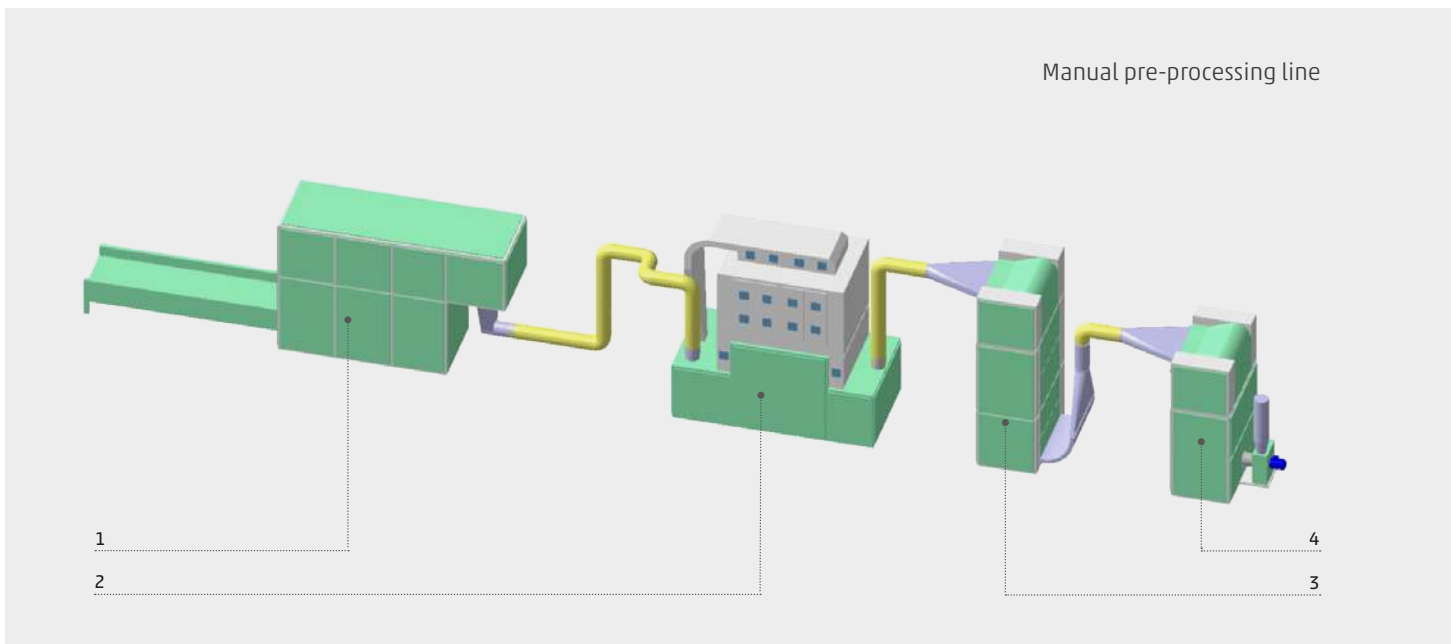
Production	Up to 1,000 kg/h
Blending	8 x 1



TECHNICAL DESCRIPTION - LEGEND

- | | |
|---------|----------------------|
| 1 B23NW | 3 B143NW, 4 chambers |
| 2 B13NW | 4 B134NW |
| | 5 B153NW |

Production	Up to 600 kg/h
Blending	4 x 1
Tuft blending	Up to 3 components



TECHNICAL DESCRIPTION - LEGEND

- | | |
|----------------------|----------------------|
| 1 B14NW | 3 B134NW, 4 chambers |
| 2 B143NW, 4 chambers | 4 B153NW |

Production	Up to 600 kg/h
Blending	4 X 1



Textile Engineering

A Camozzi Group Company

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