MASIAS
MAQUINARIA

ADVANCED FIBRES PROCESS TECHNOLOGIES

HOME TEXTILE

NON-WOVENS

RECYCLING

www.masiasmaquinaria.com

ENGINEERED FOR GLOBAL PERFORMANCE

Masias Maquinaria is a company exclusively dedicated to designing and manufacturing equipment, and in particular to providing the best possible solutions for the treatment of all types of fibres, and fibre fillings, and to be able to aid our clients in improving and optimising their production systems.

The company's DNA is based on innovation and the search for the appropriate solution for each client. These synergies have allowed us to become experts in delivering turnkey projects in industry sectors such as comfort textiles production, scraps recovery, and in recent years, in the production of fillings for the garment sector.

MORE THAN 75 YEARS OF EXPERIENCE

YOU HAVE AN IDEA

YOU HAVE QUESTIONS?

WE HAVE THE EXPERTISE...

...AND THE CAPACITY

TO SUPPLY YOUR TURNKEY SOLUTIONS

HOME **TEXTILES**

This sector is characterised by new fabrics, fibres and filling products that improve quality of rest. Our clients are always willing to fullfill their costumer's expectations, so the market is always moving on and searching for innovative and better comfort products

PILLOWS

Our technology adapts to the needs of this type of market by making it possible to use the same production system for a variety of materials: polyester fibres, cluster fibres, microfibres, foam and other natural fibres like wool or kapok, or a blend of any of these products.

UPHOLSTERY

The sofa is one of the most important pieces of furniture in the house because we spend so many hours sitting on it. This is why we must ensure that the manufacturing quality of the cushions is excellent and that we will be able to enjoy it for many years to come.

QUILTS

In order to choose an appropriate duvet one must keep a series of factors in mind, such as the climate we live in, the type of filling, or its thickness. At Masias Maquinaria, we offer advanced filling technologies that combine material and thickness flexibility.

MATTRESS

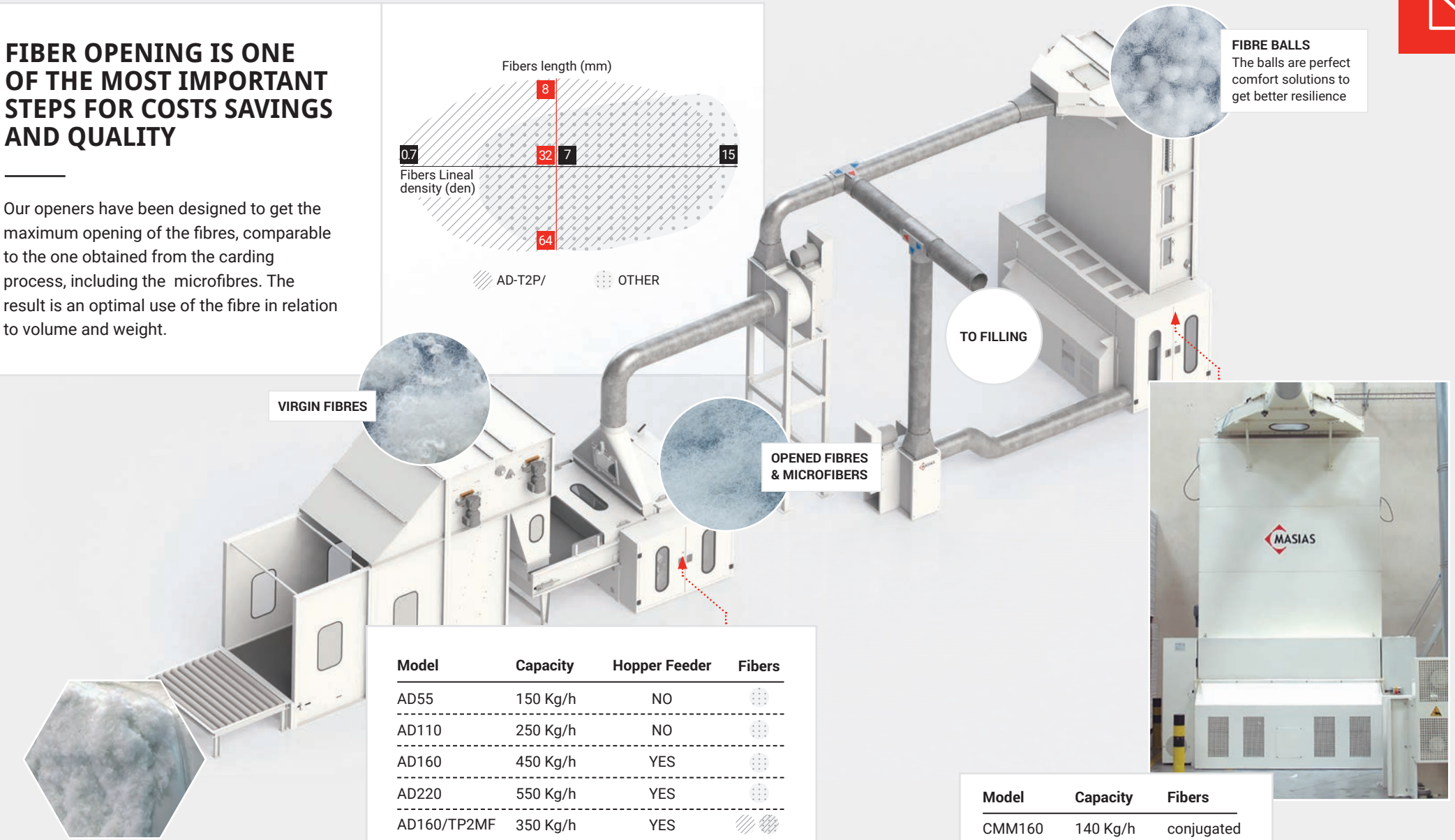
The mattress is the foundation for good rest. Mattresses are basic comfort products that are made up of various layers which are what determine the quality of rest. Each layer has a specifically determined function. Our technologies are focused on the quilted panels and inner felts as well as the mattress toppers.

NON-WOVENS

We are specialised in the installation of complete felt and wadding production lines adapted to the comfort textiles market. Our lines have the capacity to blend different raw materials (natural, synthetic, or recycled) and to obtain a broad range of felts and wadding with varying densities according to their future use within the mattress.

FIBER OPENING IS ONE OF THE MOST IMPORTANT STEPS FOR COSTS SAVINGS AND QUALITY

Our openers have been designed to get the maximum opening of the fibres, comparable to the one obtained from the carding process, including the microfibres. The result is an optimal use of the fibre in relation to volume and weight.

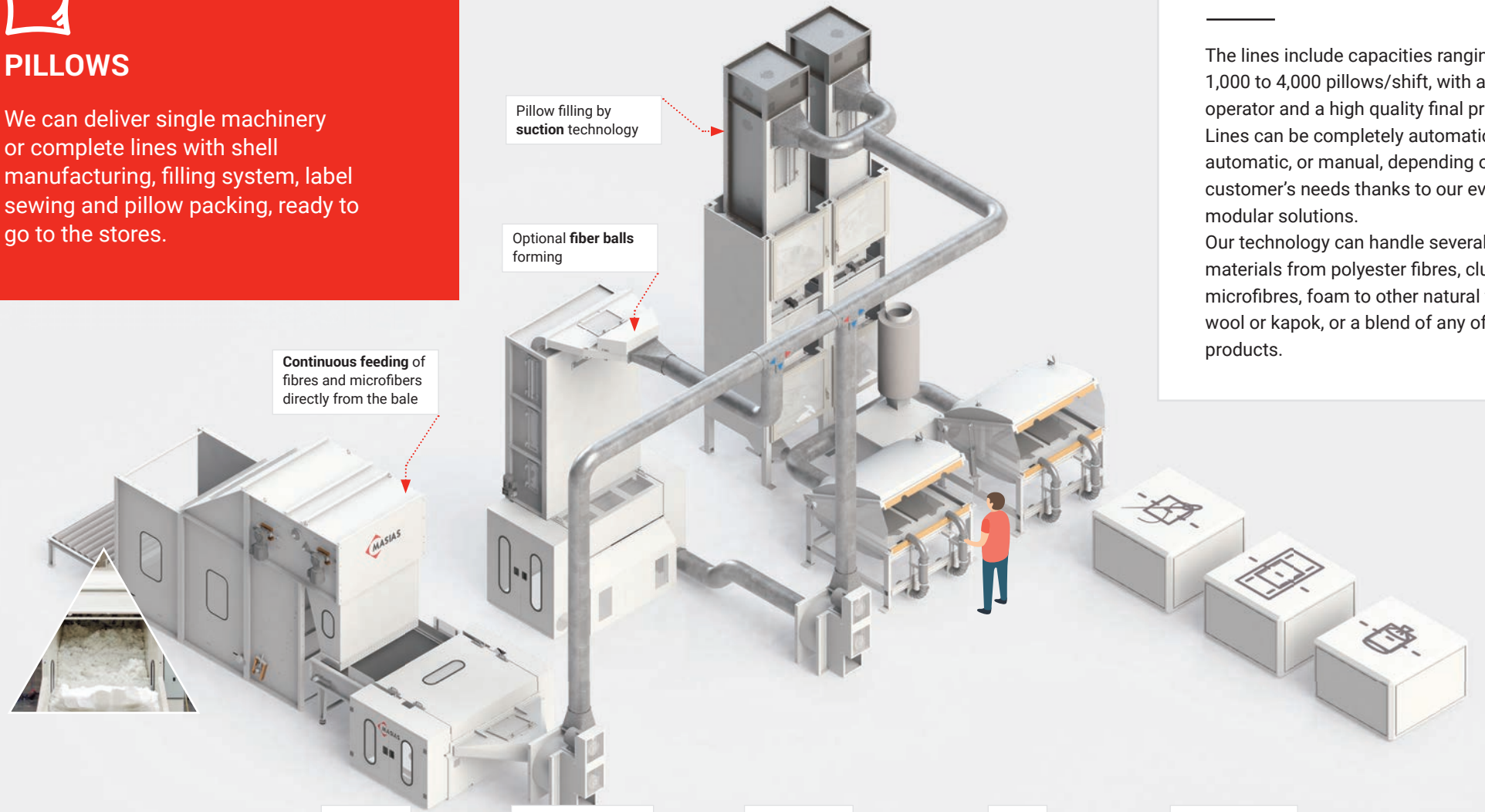


Model	Capacity	Hopper Feeder	Fibers
AD55	150 Kg/h	NO	
AD110	250 Kg/h	NO	
AD160	450 Kg/h	YES	
AD220	550 Kg/h	YES	
AD160/TP2MF	350 Kg/h	YES	

Model	Capacity	Fibers
CMM160	140 Kg/h	conjugated
CMM220	200 Kg/h	conjugated

PILLOWS

We can deliver single machinery or complete lines with shell manufacturing, filling system, label sewing and pillow packing, ready to go to the stores.



The lines include capacities ranging from 1,000 to 4,000 pillows/shift, with a single operator and a high quality final product. Lines can be completely automatic, semi-automatic, or manual, depending on the customer's needs thanks to our evolutive and modular solutions.
Our technology can handle several types of materials from polyester fibres, cluster fibres, microfibres, foam to other natural fibres like wool or kapok, or a blend of any of these products.


Inner seam


Ultrasound welding

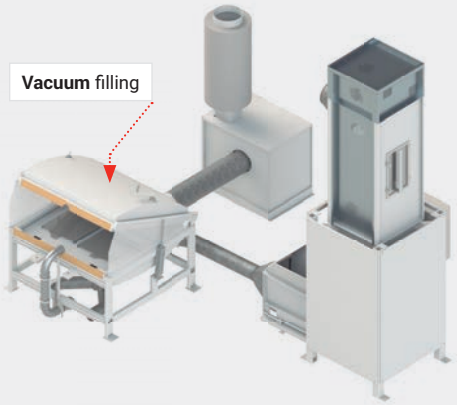

Double stitch


Piping


Overlock closing

Dimensions: **10 x 12 м**
Surface: **120 м²**
Height: **6,4 м**
Installed Power: **82 kW**
Compressed air: **325 liters/min**

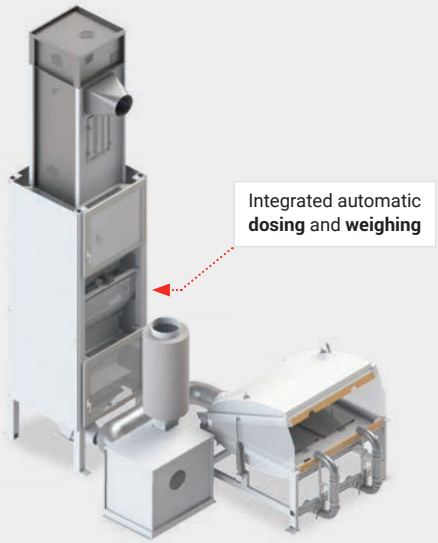
PESFIBRE VAC-1



FIBRE / MICROFIBRE / BALLS up to **2** Fillings / minute

OPERATOR **1**

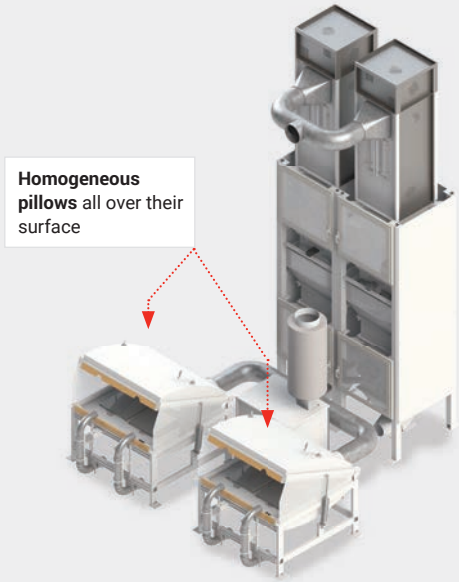
PESFIBRE VAC-2



FIBRE / MICROFIBRE / BALLS up to **4** Fillings / minute

OPERATOR **1**

PESFIBRE VAC-2/2



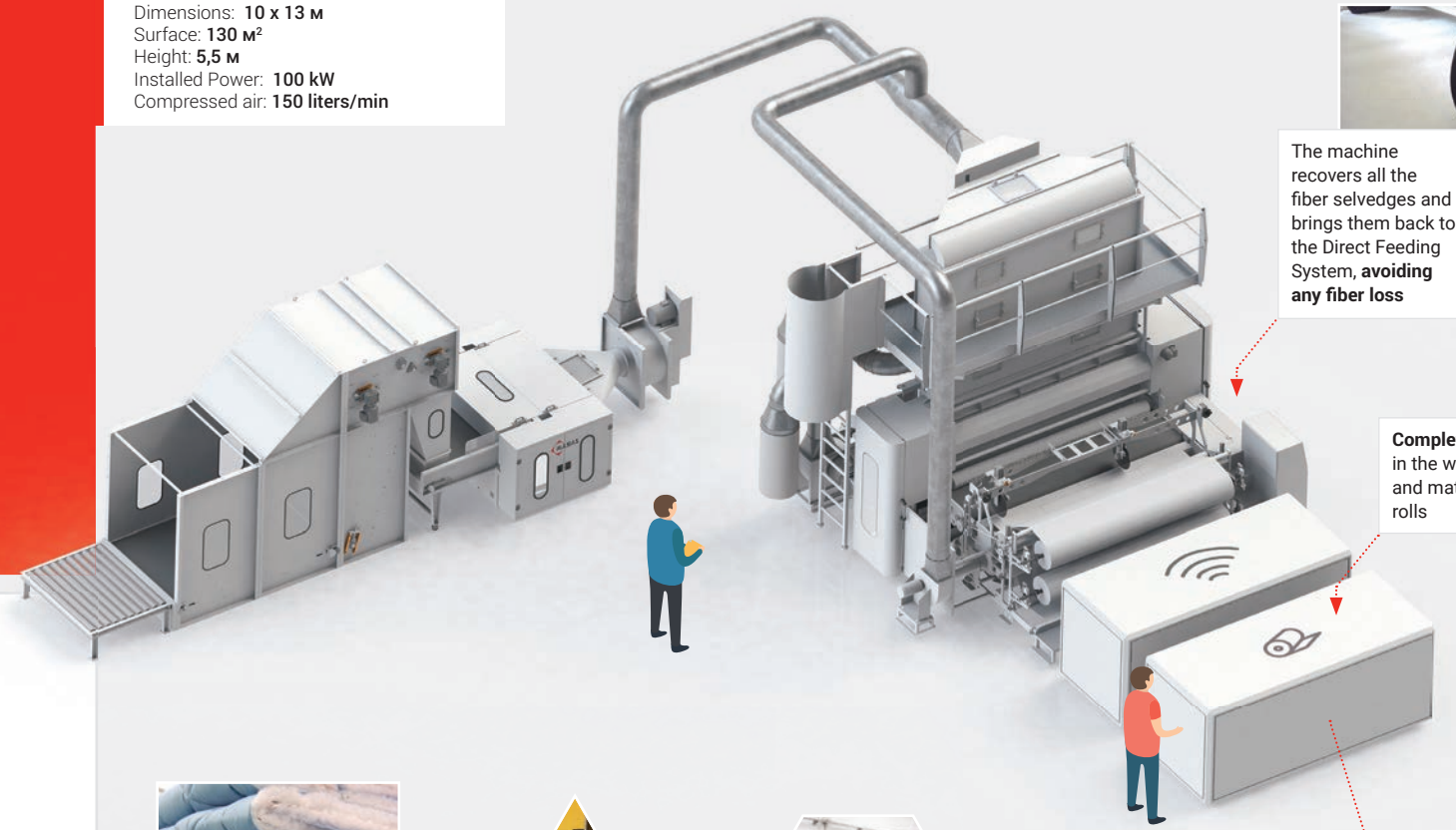
FIBRE / MICROFIBRE / BALLS up to **8** Fillings / minute

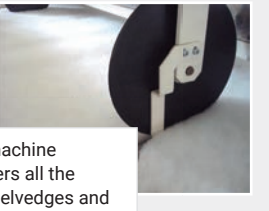
OPERATOR **1**

QUILTS

We offer two different technologies to find the best choice for each filling and product needs.
Our automation processes in the production of quilts and duvets combine the flexibility with high productivity, from the opening of the fibres to the packaging of the end product.

Dimensions: **10 x 13 м**
Surface: **130 м²**
Height: **5,5 м**
Installed Power: **100 kW**
Compressed air: **150 liters/min**





The machine recovers all the fiber selvedges and brings them back to the Direct Feeding System, **avoiding any fiber loss**

Complete versatility in the weight, width and materials of the rolls

DIRECT FEEDING SYSTEM TECHNOLOGY

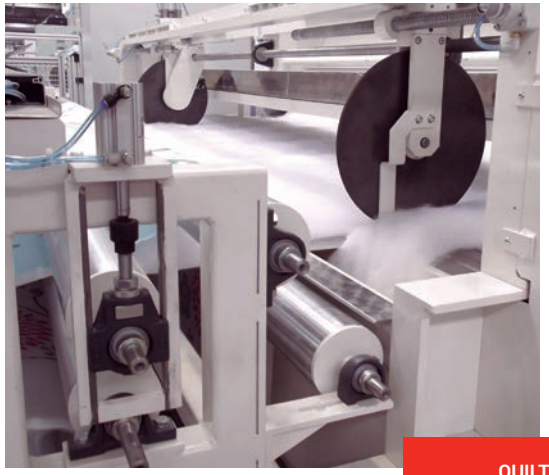
FOR FILLING ROLLS

This simple line, is based on the formation of a filling that can be fed into any type of quilting machine (single needle, double needle or multineedle) or ultrasound welding machine in order to get the maximum flexibility at a very low production and logistic cost.

Dimensions: **40 x 20 м**
Surface: **840 м²**
Height: **5,5 м**
Installed Power: **240 kW**
Compressed air: **600 liters/min**

FOR QUILTS AND COMFORTERS

The Direct Feeding System will be perfectly syncronized with any quilter (multineedle or ultrasound) and will form a pad with a wide variety of fibers and materials from fibres, microfibres, recycled fibers and foam to fibre balls.

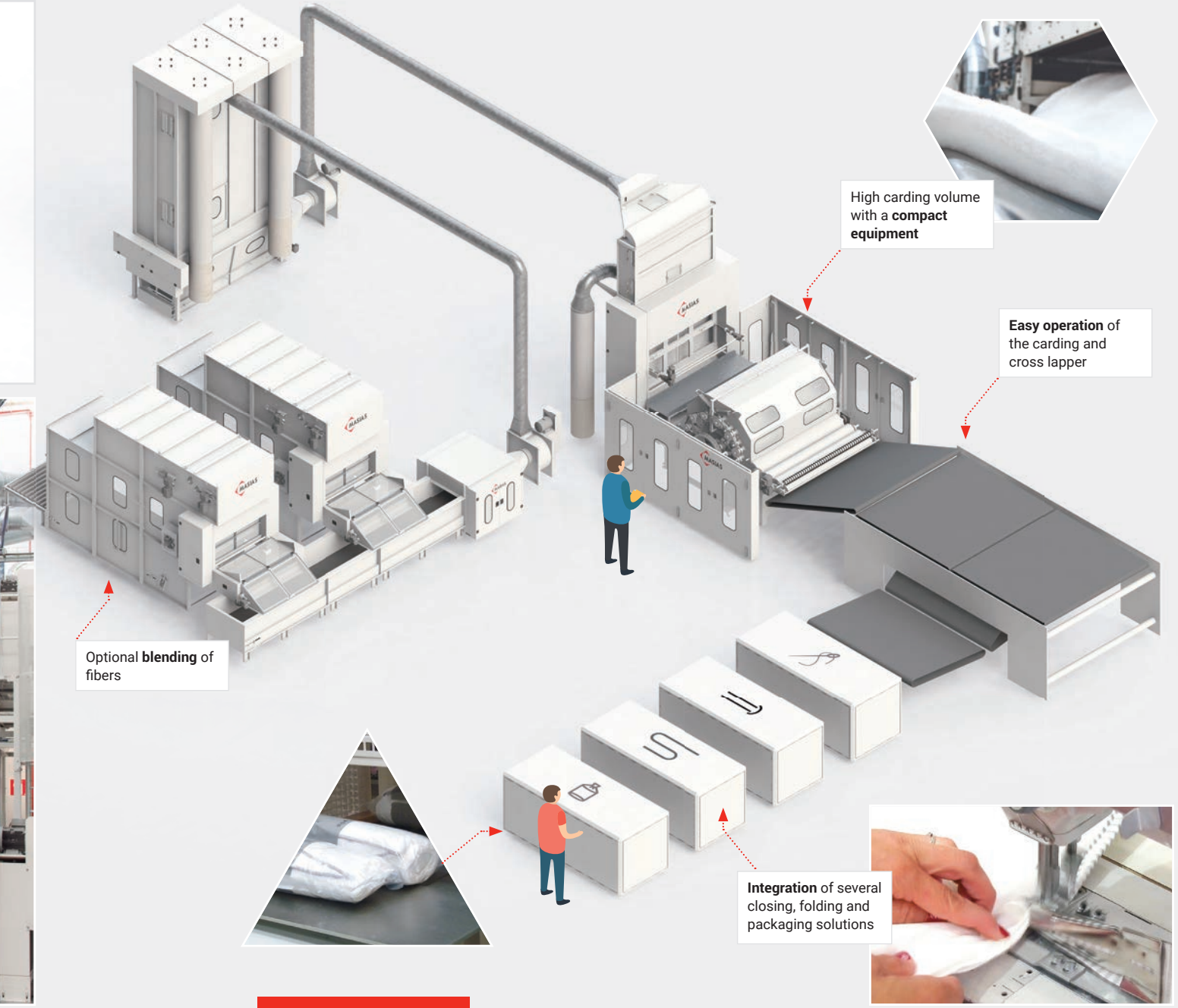


CARDING TECHNOLOGY

This quilts carding line combines hight capacity, optimum volume and speed reliability.

We can deliver from single equipments to tailor-made turn-key projects, from the bale to the packaging.

Dimensions: **25 x 15 м**
Surface: **300 м²**
Height: **5,5 м**
Installed Power: **100 kW**
Compressed air: **150 liters/min**

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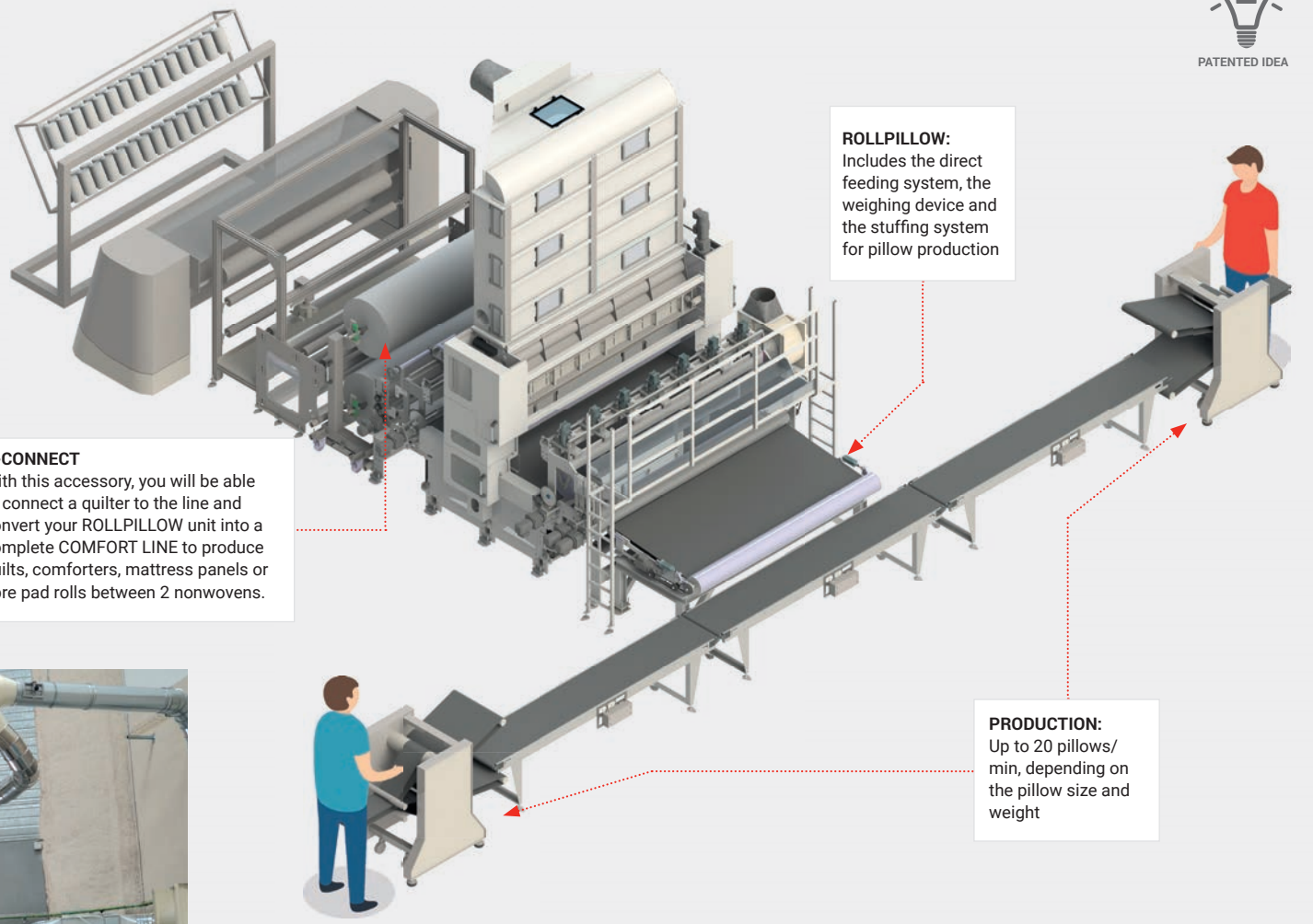
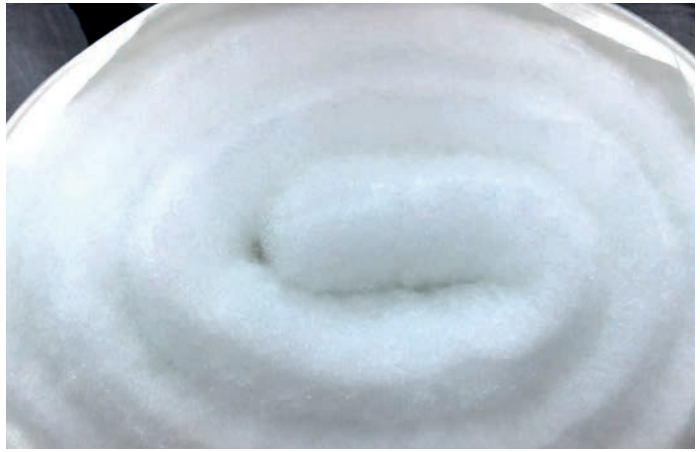
COMFORT LINE

We have patented a new system that allows our customers to manufacture three different products with the same technology. We call it Comfort Line, because it can produce, pillows, quilts and mattress panels with the same system.

PATENTED IDEA





ROLLED PILLOWS

HIGH QUALITY PILLOWS

This system has been thought to reach an efficient and flexible pillow production line.
The rolled or carded pillow gets a better volume and resilience compared to a blown or vacuum pillow, and also improves the outer apperance and shape of the pillow. This is because it's internal structure, more air spaces that gives the pillow better properties.

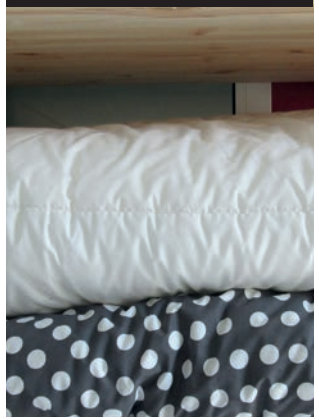
QUILTS OR COMFORTERS

COMBINES FLEXIBLITY AND HIGH CAPACITY

Compact technology based on creating a pad of fibres or microfibres using air. The advantage of the direct feeding system is the variety of fibres it can process natural and synthetic, such as lapping fibre clusters, as well as the simplicity of operation. These quilt and duvet production lines can be synchronised with any type of quilter, whether multi-needle or ultrasonic.

ULTRASONIC

MULTI-NEEDLE



MATTRESS PANELS

USE ANY BLEND EVEN WITH FOAM

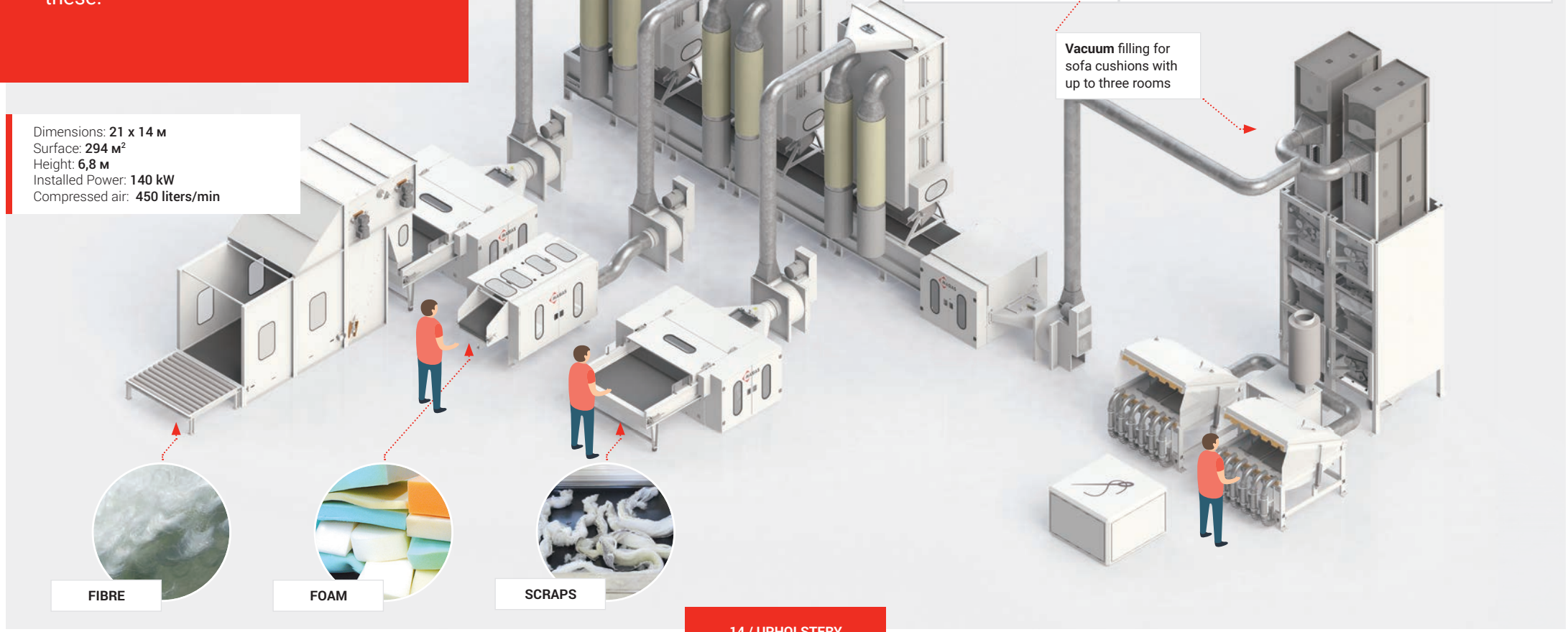
Our key characteristic is obtaining high quality mattress panel through variable blends of filling materials such as polyester fibres, cut foam, and recycled remnant materials from the same mattress panel production.

UPHOLSTERY

Masias Maquinaria has the solutions to manufacture comfortable cushions that are highly durable and that will not lose their shape throughout continued use. They can be filled with any type of material, either synthetic fibres, foam, recycled materials or a mixture of these.

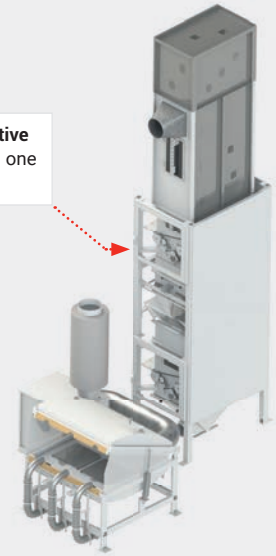
HIGH BLENDING PRECISION

Our cushions manufacturing lines have the capacity to produce cushions with personalized blendings with differentl materials as foam, defibered fibers or even a percentage of feathers, and also guarantees that the final filling material is always the same.



Dimensions: **21 x 14 m**
Surface: **294 m²**
Height: **6,8 m**
Installed Power: **140 kW**
Compressed air: **450 liters/min**

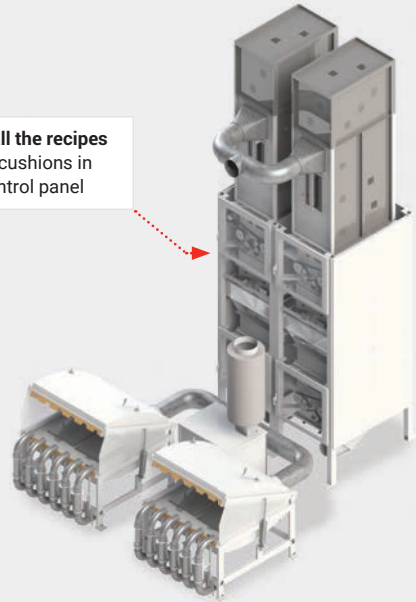
PESFIBRE VAC-2 TAP



FIBRE / MICROFIBRE / BALLS / BLENDS up to **4** Fillings / minute

OPERATOR **1**

PESFIBRE VAC-2 / 2 TAP



FIBRE / MICROFIBRE / BALLS / BLENDS up to **8** Fillings / minute

OPERATOR **1**

MATTRESS

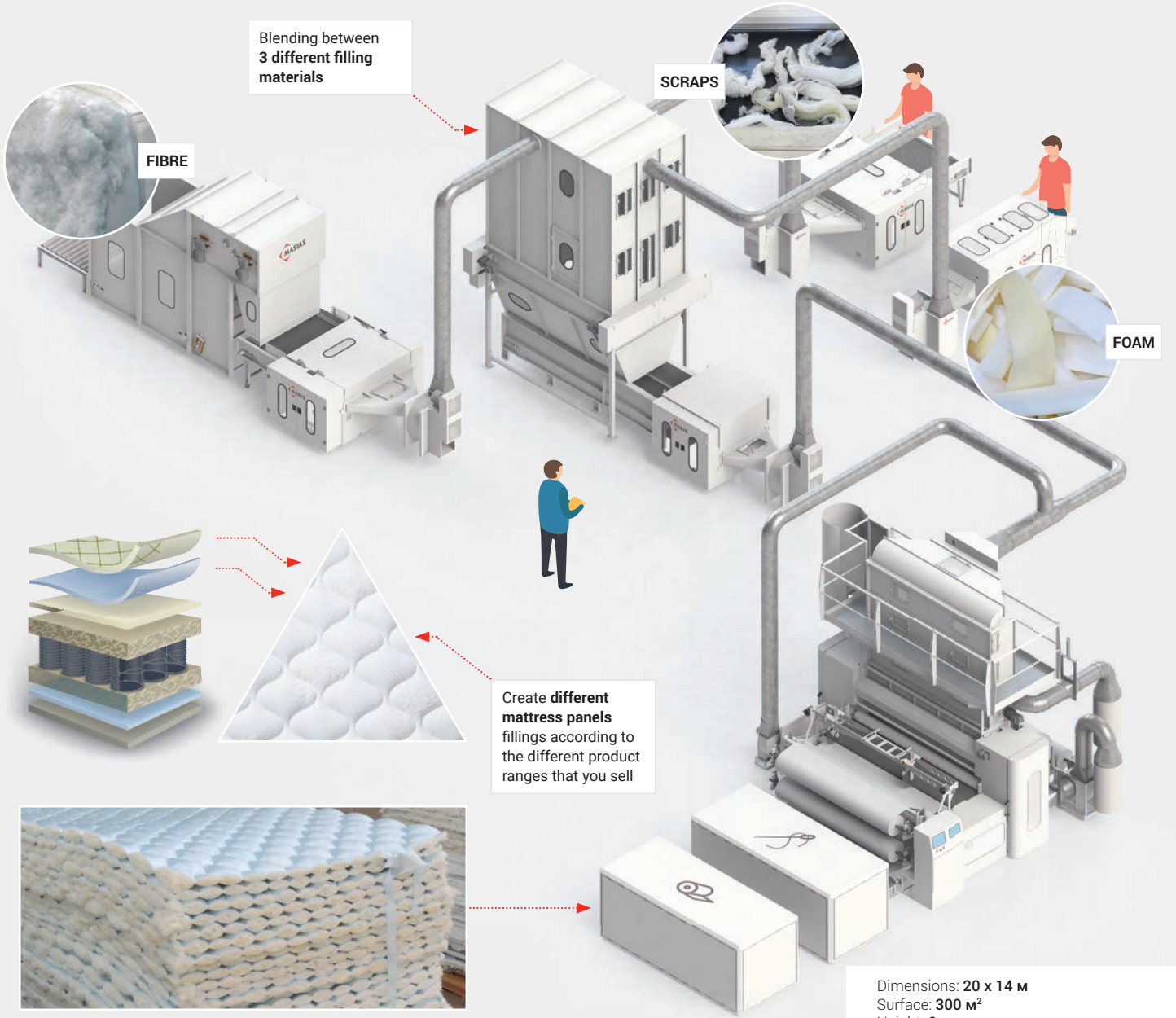
Mattresses are basic comfort products that are made up of various layers which are what determine the quality of rest. This product generates important quantities of selvedges and scraps of different characteristics that can be given added value to new mattresses

QUILTED MATTRESS PANELS LINE

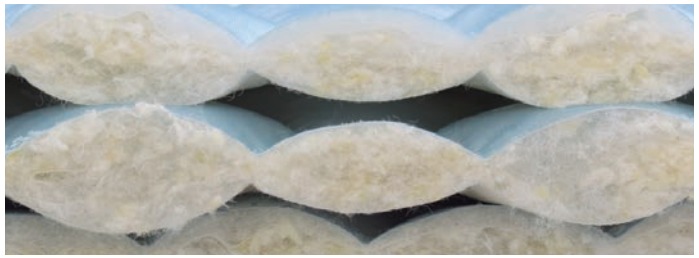
Recover all your production scraps to do a final product and close the loop on the mattress industry production.

This line is designed to recycle the quilted wastes and mattress selvedges from the mattress production, and to manufacture a new filling material used in mattress panels or felts.

This helps our customers to optimize their production lines and reach the zero waste, that is a key factor, from an environmental point of view.



Dimensions: **20 x 14 M**
Surface: **300 M²**
Height: **6 M**
Installed Power: **120 kW**
Compressed air: **250 liters/min**



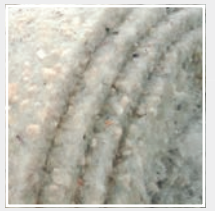
NON-WOVENS

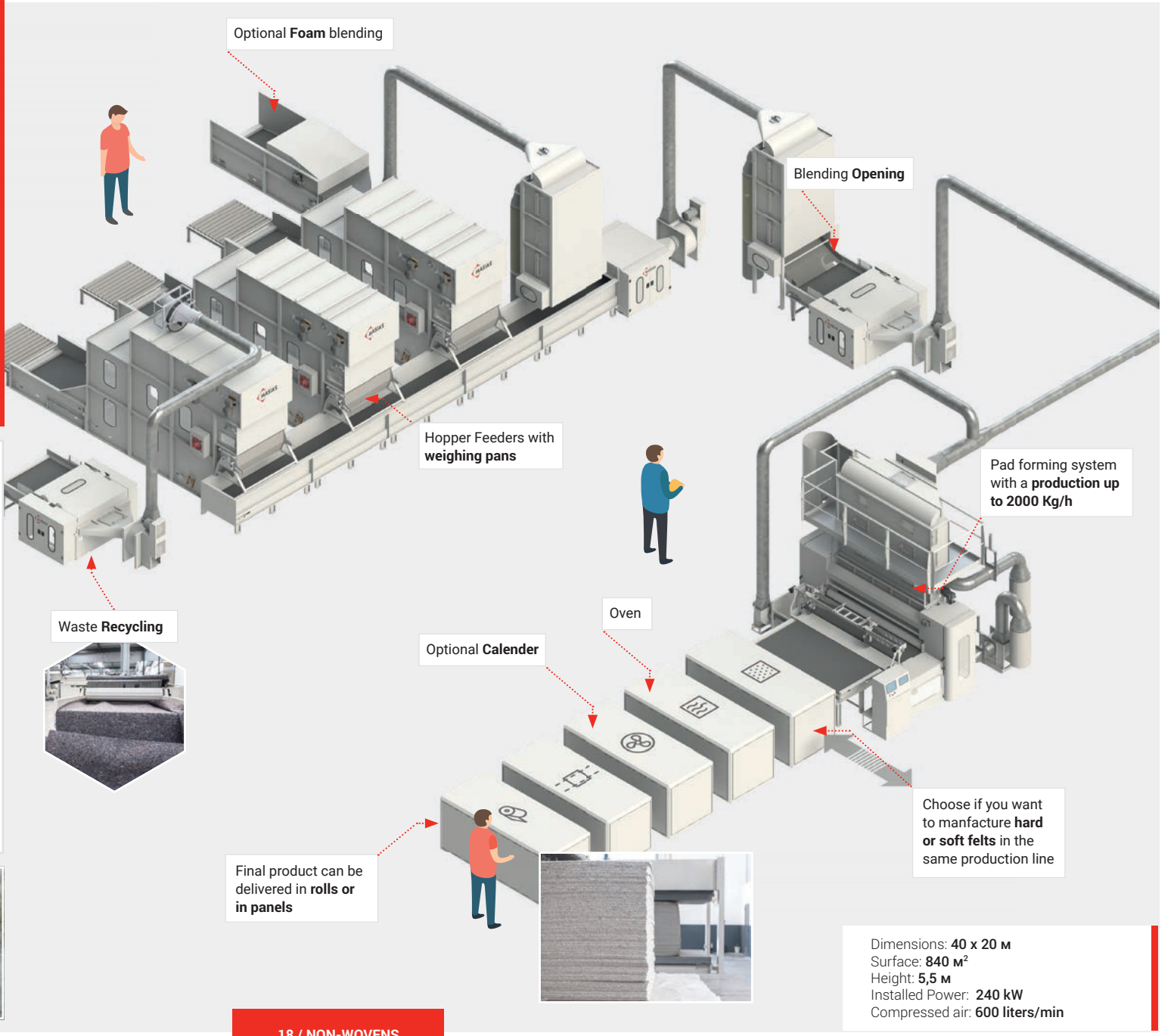
We are specialised in the installation of complete felt and wadding production lines. Our lines have the capacity to blend different raw materials (natural, synthetic, or recycled) and to obtain a broad range of felts and wadding with different densities depending on their future use.

FELTS

The capacity of these lines can reach up to 2,000kg/h in felt production.

Obtaining a good finished product always begins with having a good blending system to ensure that the final product has a uniform appearance regardless of the materials or colours used as raw materials. Our equipment ensures delivery of a positive final result, no matter what type or colour of fibre it processes.





Dimensions: **40 x 20 м**
Surface: **840 м²**
Height: **5,5 м**
Installed Power: **240 kW**
Compressed air: **600 liters/min**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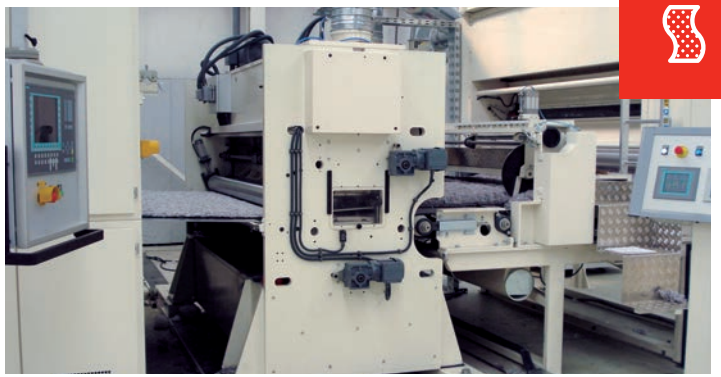
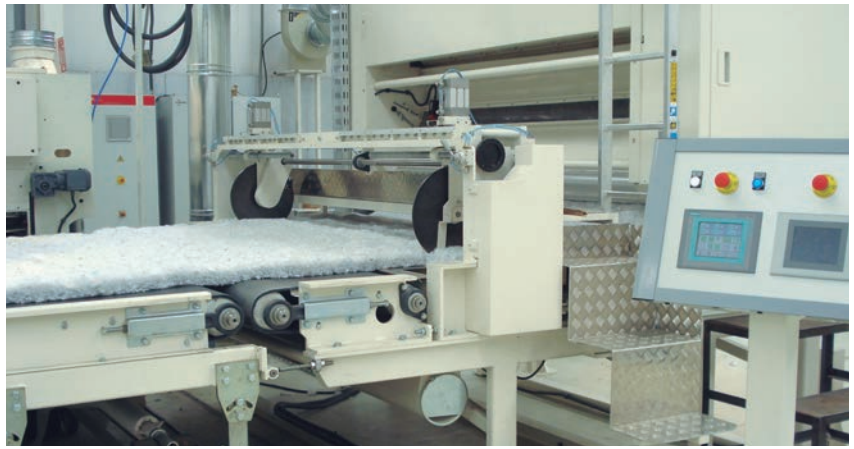
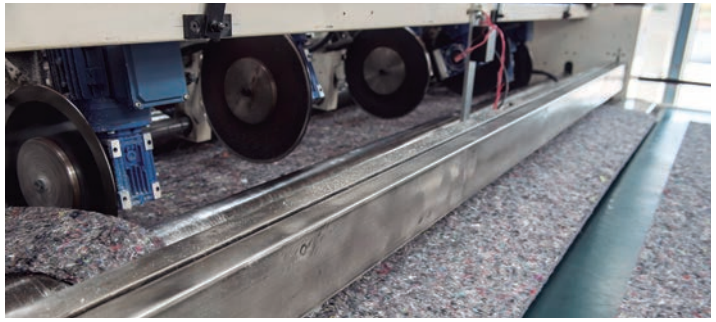
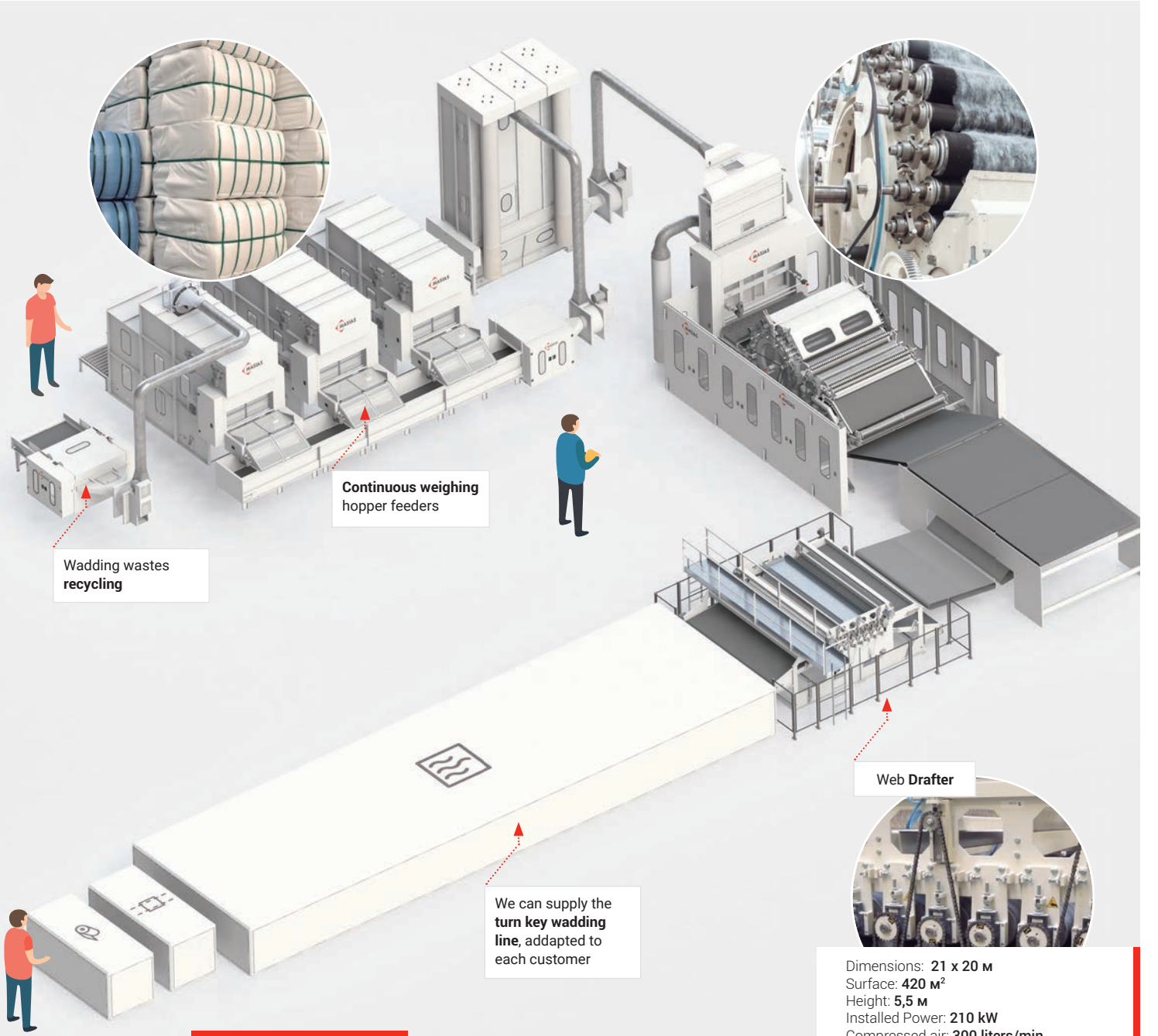




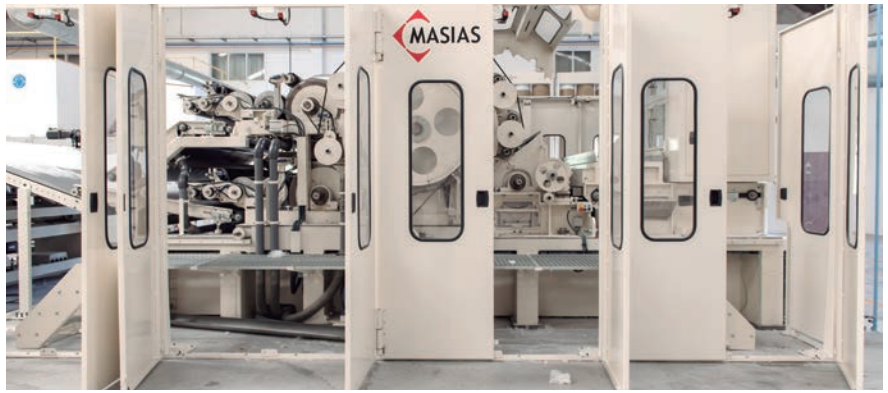


WADDINGS

The capacity of these lines can reach up to 1,500kg/h in wadding production.



Dimensions: **21 x 20 м**
Surface: **420 м²**
Height: **5,5 м**
Installed Power: **210 kW**
Compressed air: **300 liters/min**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RECYCLING

Everyone is interested in reducing waste generated during production process. These remains generates two problems: Firstly, an economic problem, because of the quantity of high quality of raw materials is dwindling; and secondly, is the environmental problem, whereby waste being generated must be properly managed, which generates more costs.

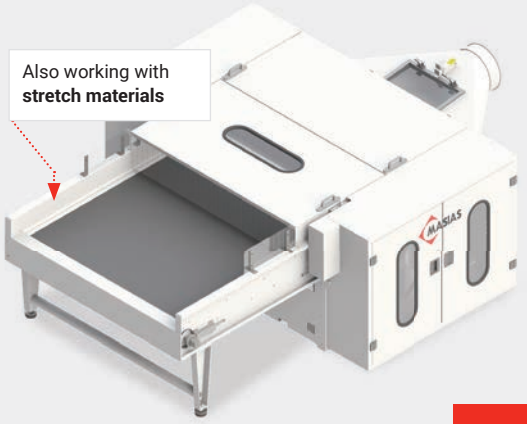
DEFIBERING

Our technology can recover materials shown on previous pictures by defibering them. We can use the resulting material as a raw or filling material depending on what is our objective.

Depending on configuration of our defibering machine, we can shred or reopen different materials. On one side, we have non-wovens, which can be needle-punched, wadding, felts… On the other hand, we have bedding remains as quilts, bed covers and mattress panels...

We have secondary devices that can be integrate in our system. Such as dedusting system, automatic recovery systems under our machine and automatic humidifying systems.

Model	Working width	Speed	Material processed
DF-50	50 cm	Up to 22 mts/min	Non-wovens
DF-110	110 cm	Up to 7 mts/min	Non-wovens / Bedding wastes
DF-160	160 cm	Up to 7 mts/min	Non-wovens / Bedding wastes
DF-220	220 cm	Up to 7 mts/min	Non-wovens / Bedding wastes

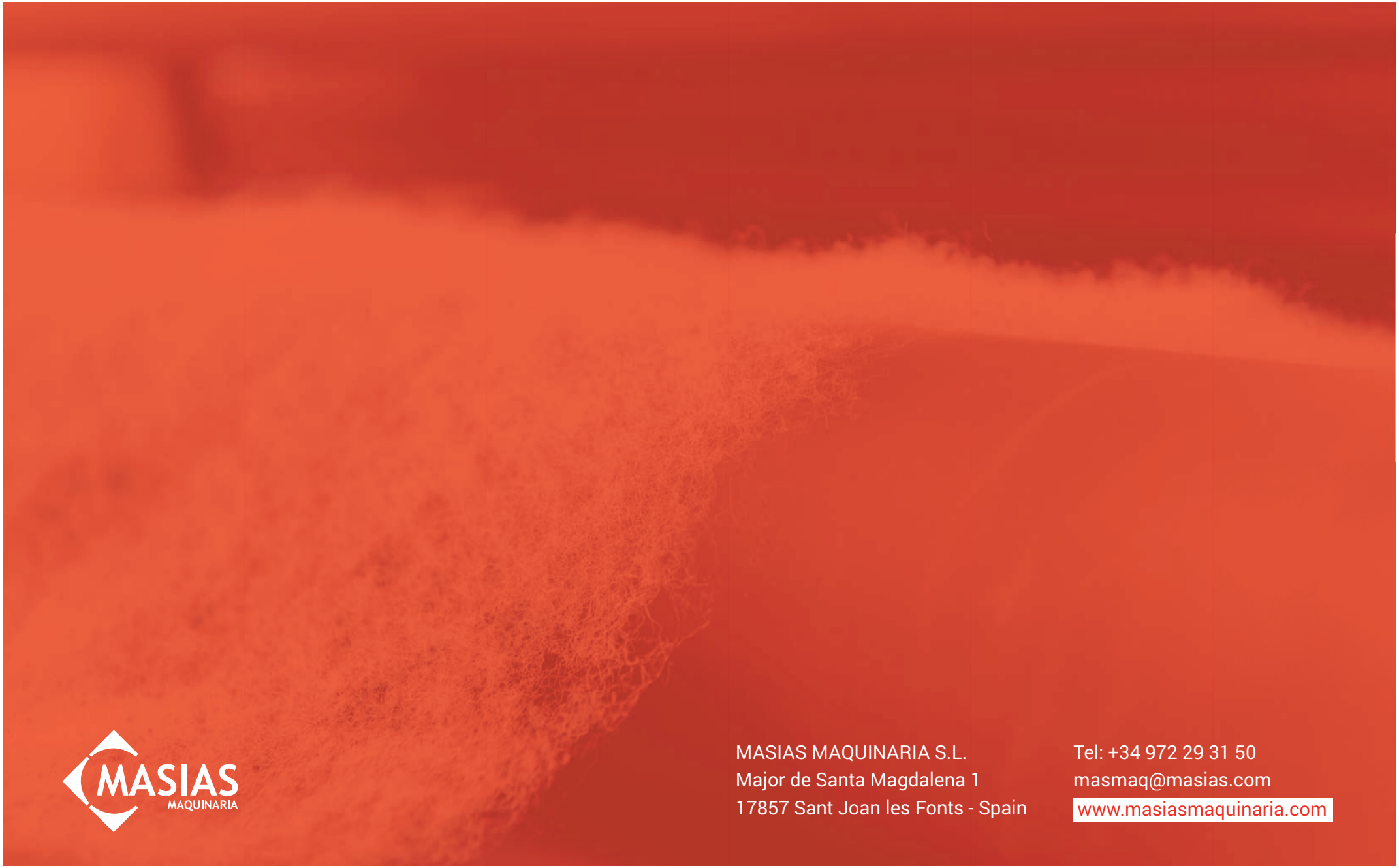


FOAM CUTTING EQUIPMENTS

The RECYCFOAM cutting machine is designed to cut pieces of foam, viscoelastic or latex into small chips or sticks of foam. This new material obtained is generally used for bedding fillings (pillow, mattress panels) or for making thermo-bonded panels.

The machine is composed of three cutting sections, the first two are transversal knifes and the third is an helicoidally cylinder. Changing the speed of the last cylinder we can adjust more or less the final length of the stick.

Model	Working width	Speed	Material processed
RF-55	55 cm	Up to 350 Kg/h	Foam, Viscoelastic, Latex



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