



ADVANCED FIBRES PROCESS TECHNOLOGIES



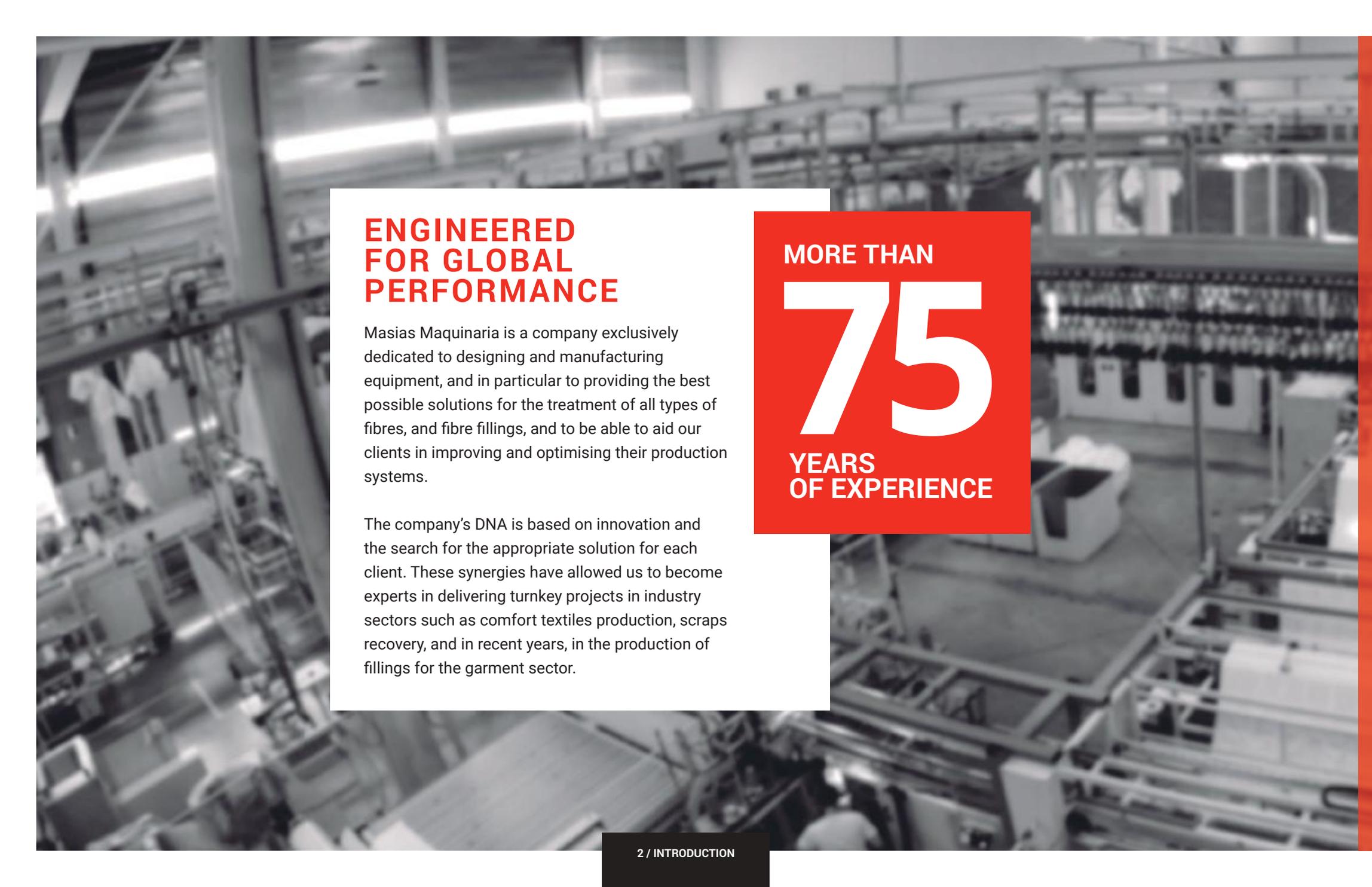
HOME TEXTILE



RECYCLING



INSULATIONS



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 fulfill their customer'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.



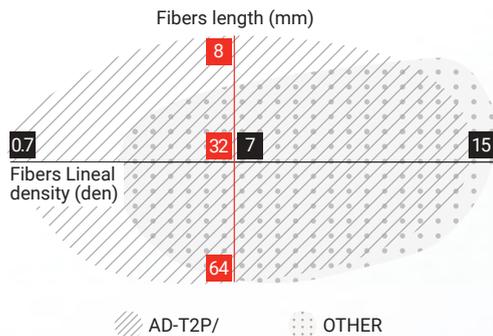
NON-WOVENS

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.



FIBRE BALLS
The balls are perfect comfort solutions to get better resilience

VIRGIN FIBRES



OPENED FIBRES & MICROFIBERS



TO FILLING



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





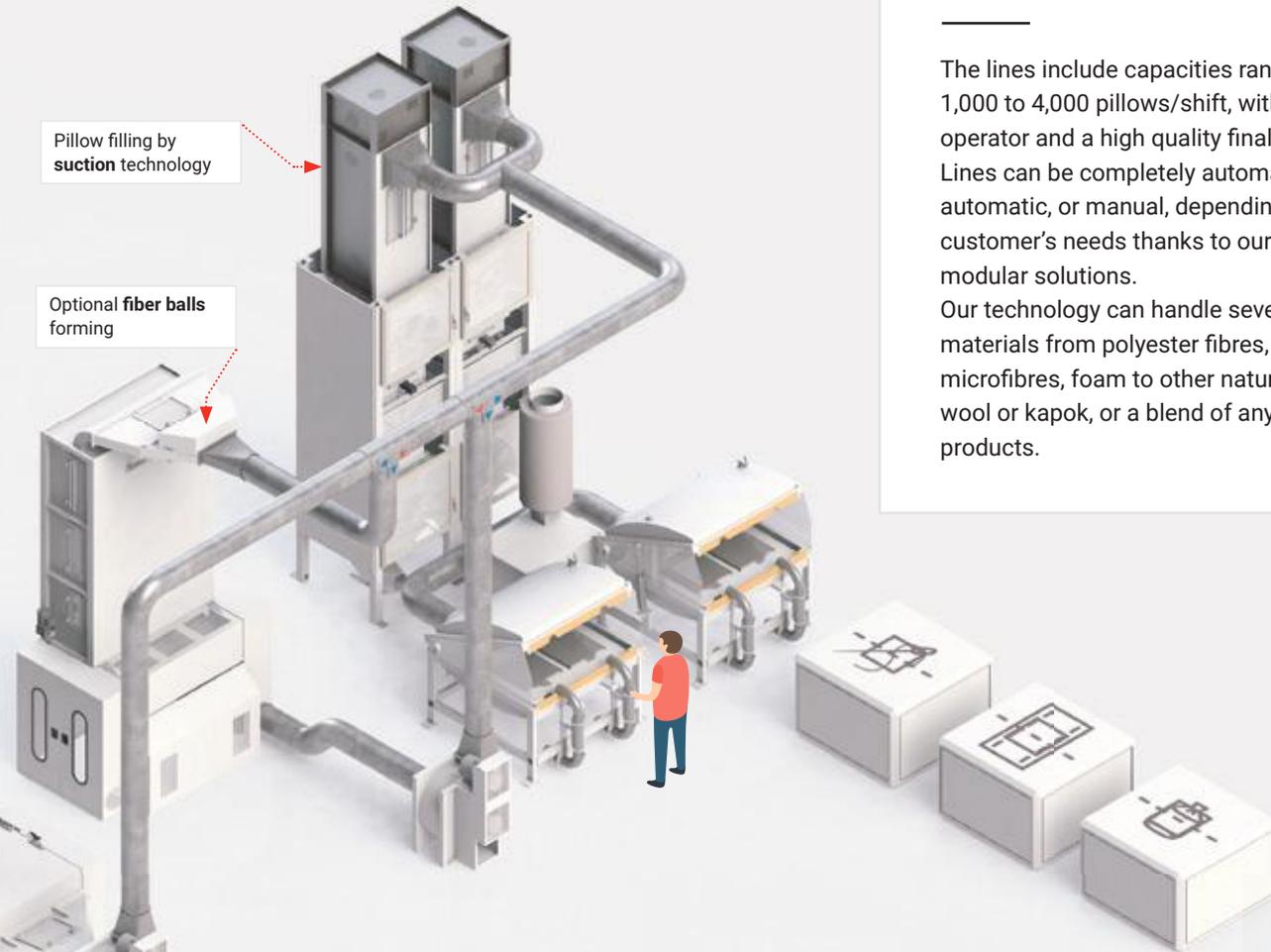
PILLOWS

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

Continuous feeding of fibres and microfibers directly from the bale

Pillow filling by suction technology

Optional fiber balls forming



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



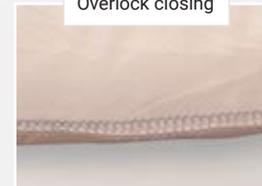
Double stitch



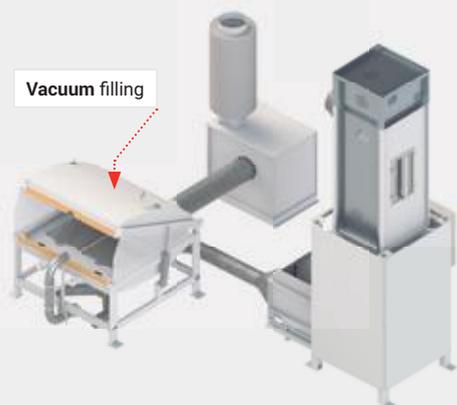
Piping



Overlock closing



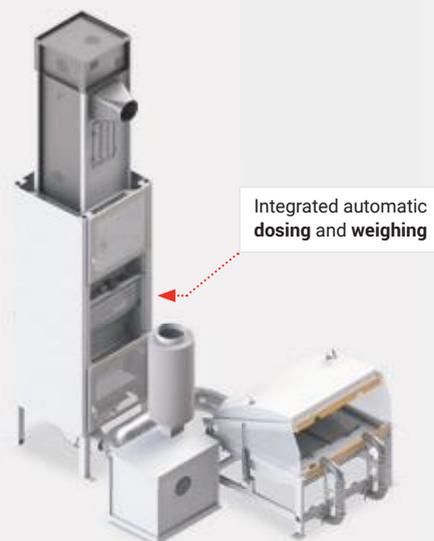
PESFIBRE VAC-1



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

OPERATOR **1**

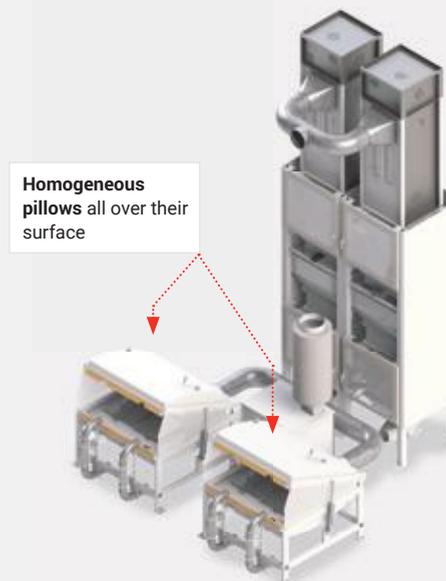
PESFIBRE VAC-2



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

OPERATOR **1**

PESFIBRE VAC-2/2



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

OPERATOR **1**





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 different materials as foam, defibered fibers or even a percentage of feathers, and also guarantees that the final filling material is always the same.

Blending installation with weighing devices

Vacuum filling for sofa cushions with up to three rooms



FIBRE



FOAM

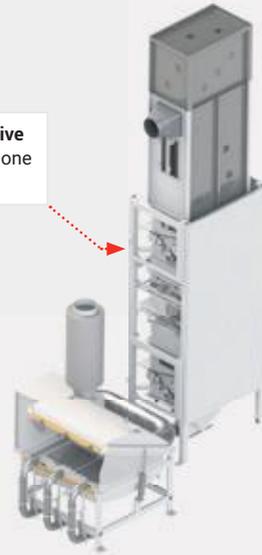


SCRAPS



PESFIBRE VAC-2 TAP

Up to 3 consecutive filling weights in one cushion

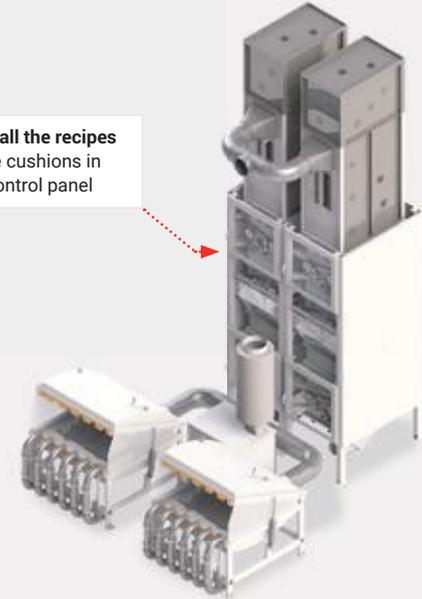


FIBRE / MICROFIBRE / BALLS / BLENDS up to 4 Fillings / minute

OPERATOR 1

PESFIBRE VAC-2 / 2 TAP

Save all the recipes of the cushions in the control panel



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

OPERATOR 1





QUILTS

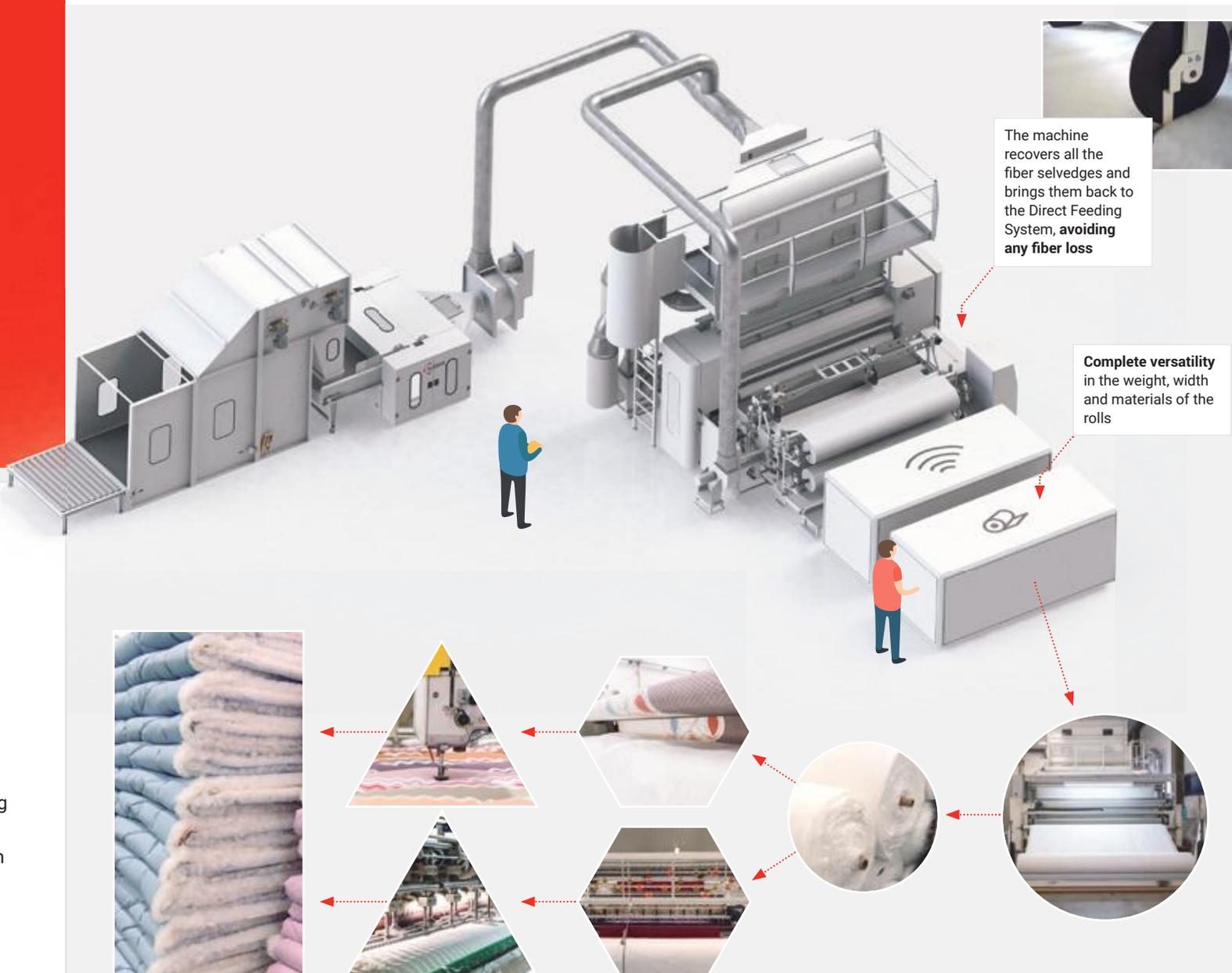
We offer two different technologies to find the best choice for each filling and product needs.

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.

DIRECT FEEDING SYSTEM TECHNOLOGY

FOR FILLING ROLLS

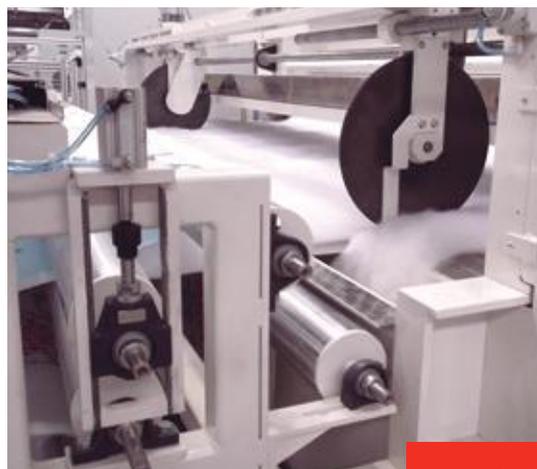
This simple line, is based on the formation of a filling that can be fed into any type of quilting machine (single needle, double needle or multineedle) or ultrasound welding machine in order to get the maximum flexibility at a very low production and logistic cost.





FOR QUILTS AND COMFORTERS

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

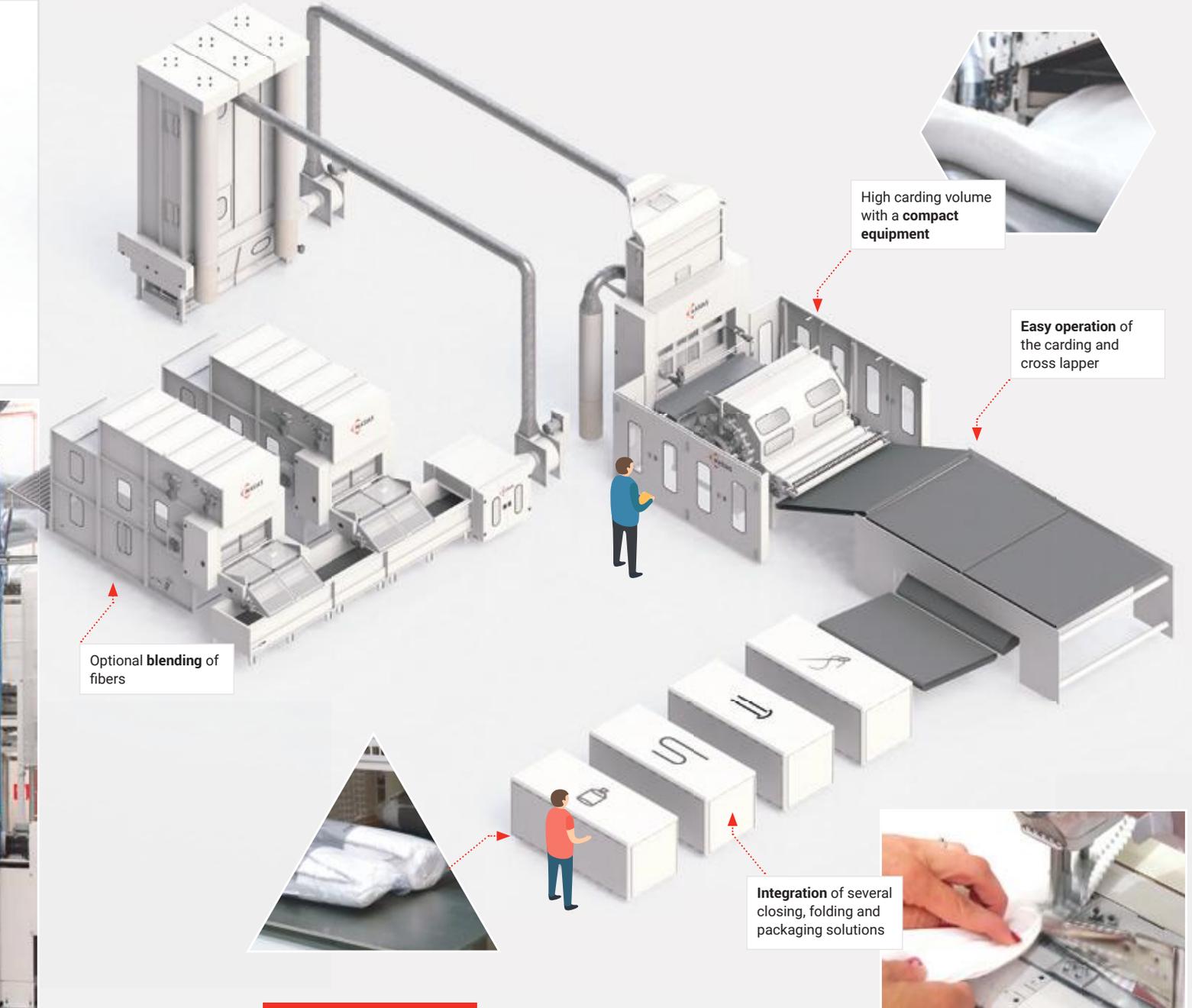




CARDING TECHNOLOGY

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

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







MATTRESS

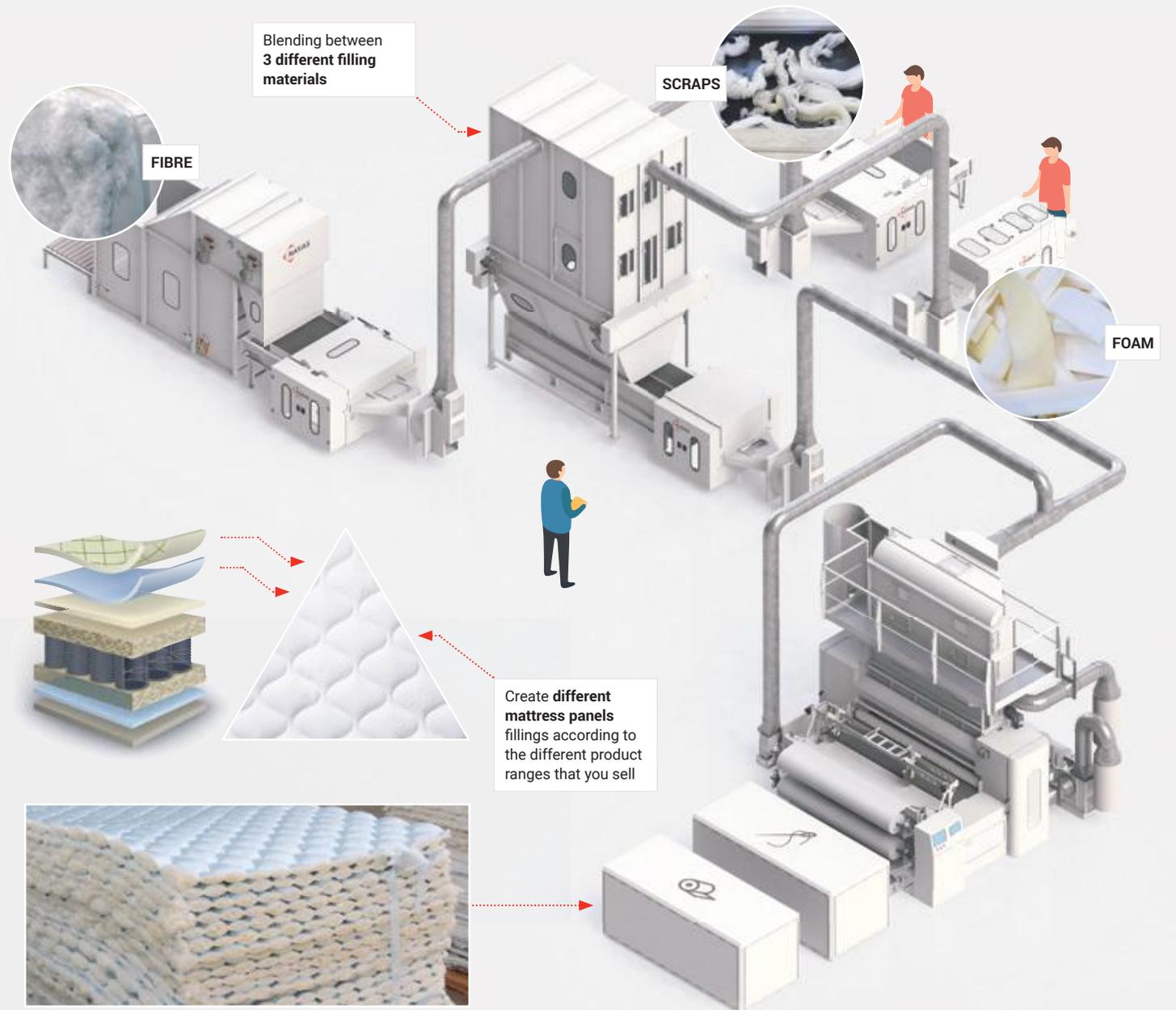
Mattresses are basic comfort products that are made up of various layers which are what determine the quality of rest. This product generates important quantities of selvages and scraps of different characteristics that can be given added value to new mattresses

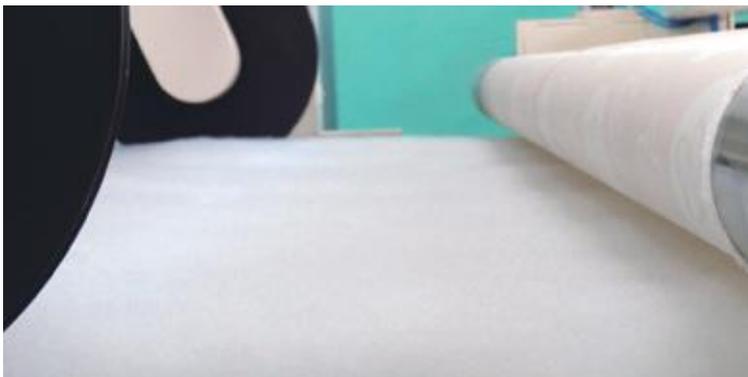
QUILTED MATTRESS PANELS LINE

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 selvages 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.







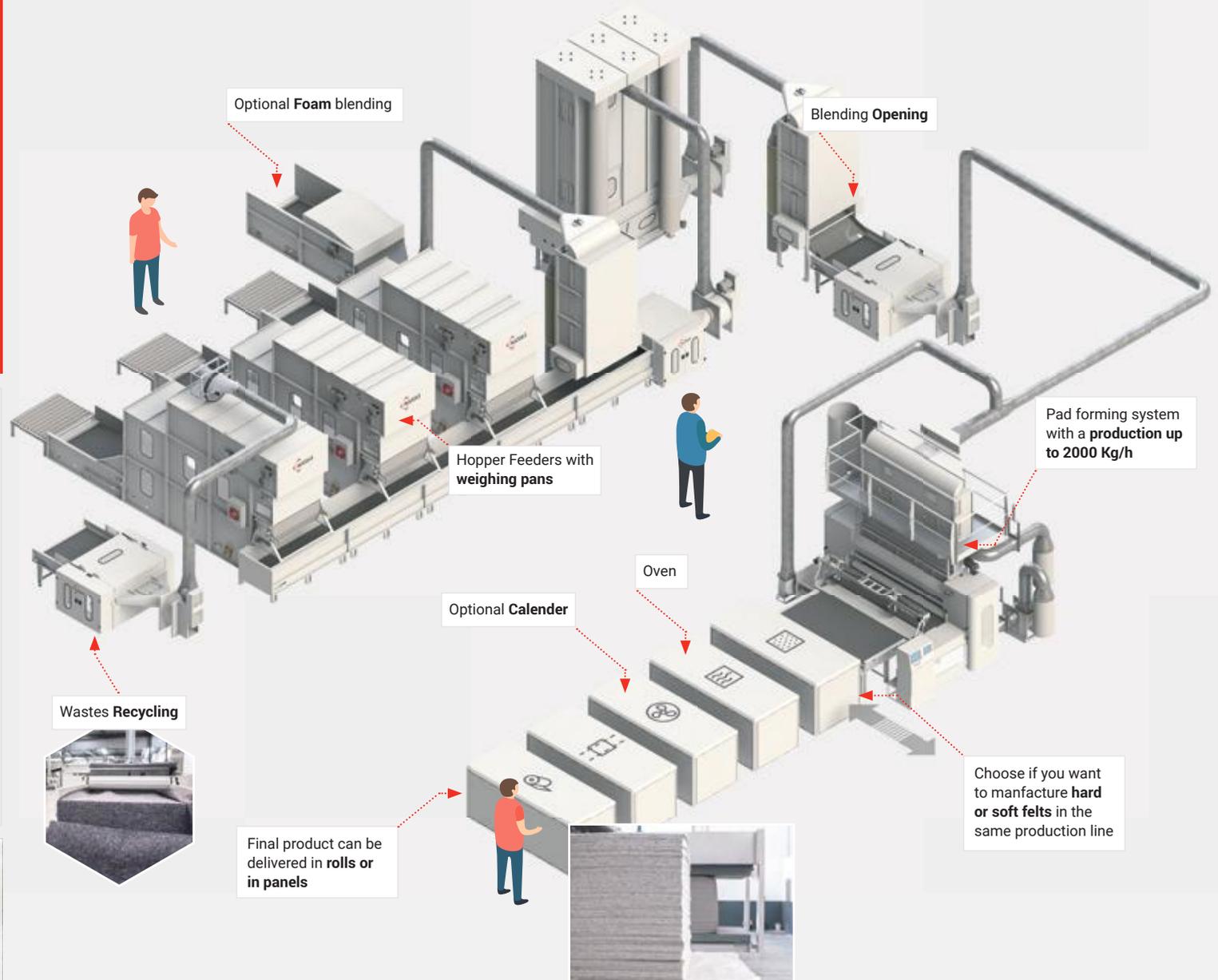
NON-WOVENS

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.

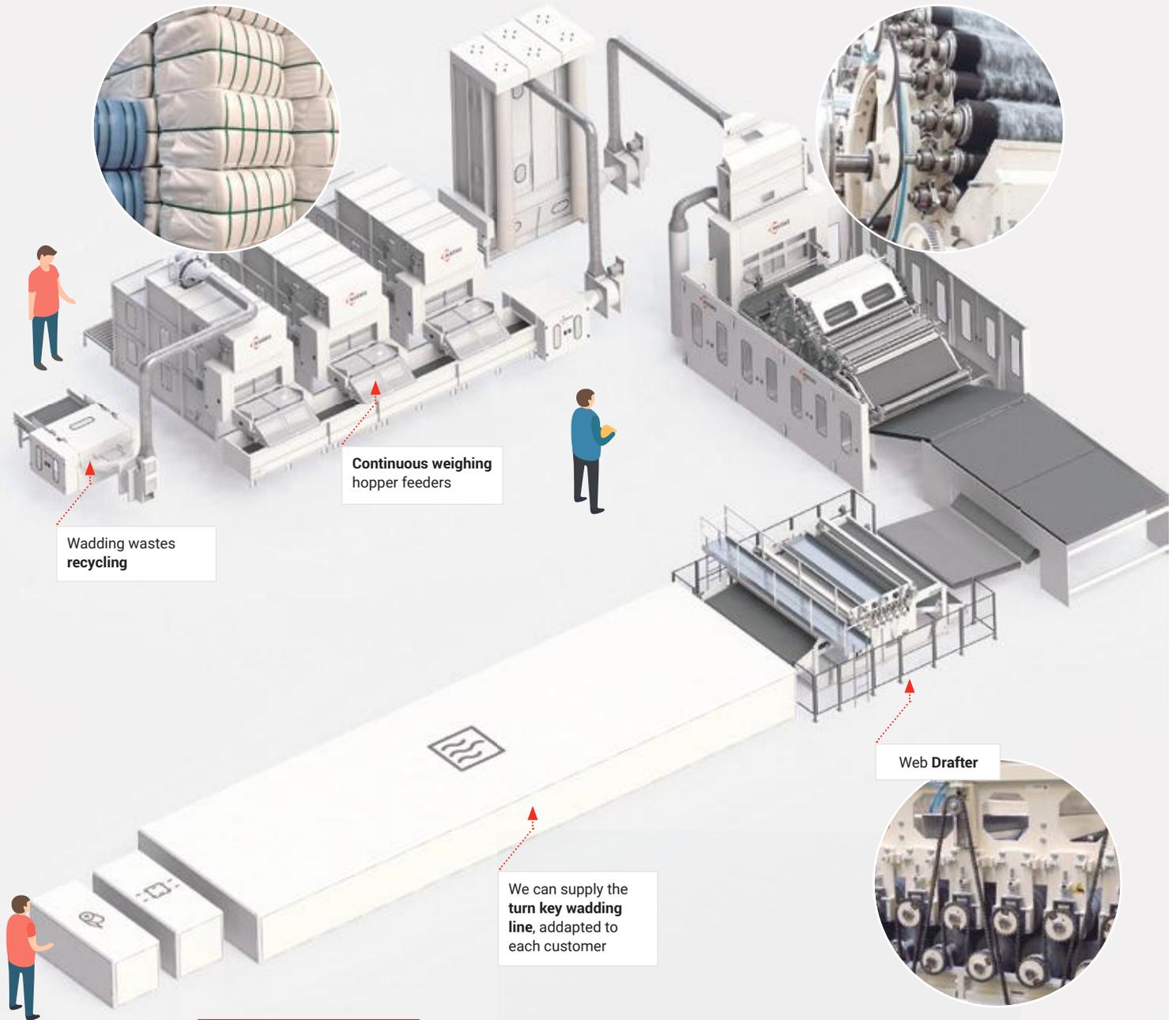






WADDINGS

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







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.



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 knives 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

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



Three Cutting sections





OUTDOOR INSULATIONS

Our technologies can mix all kind of fillings to get the most outstanding insulation for the outdoor market, and also has the capability to change the fibers and the mixtures with the same line. This is a chance for the outdoor market because you can respond quickly to the technical demands without changing your equipments.

-  **LOW WEIGHT**
-  **WIND PROTECTION**
-  **BREATHABLE**
-  **HUMIDITY CONTROL**



What is inside it just depends on you





VERSATIL INSULATION LINE

We know that feeling comfortable is essential, anywhere, at any time, and in any conditions.

Masias Maquinaria not only provides comfort and home products, it is also involved in fibre processing for outdoor products, to give that feeling of freedom, and not having to worry about the weather, which we all seek.

With our technology we can obtain low weight filling (from 40g/m² to 100g/m²), in the form of softly thermobonded pads for the production of sport and casual wear jackets.

These fillings maintain the consumer's body temperature and humidity and are highly comfortable thanks to its lightness.

The pad creation system replaces the individual channel fillings that jackets are usually made from. This facilitates the production of these products and makes the process more economical, thereby improving the original insulation characteristics of the jackets.



Ball making machine, for different kind of fibers



Production up to 600 linear meters per hour



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