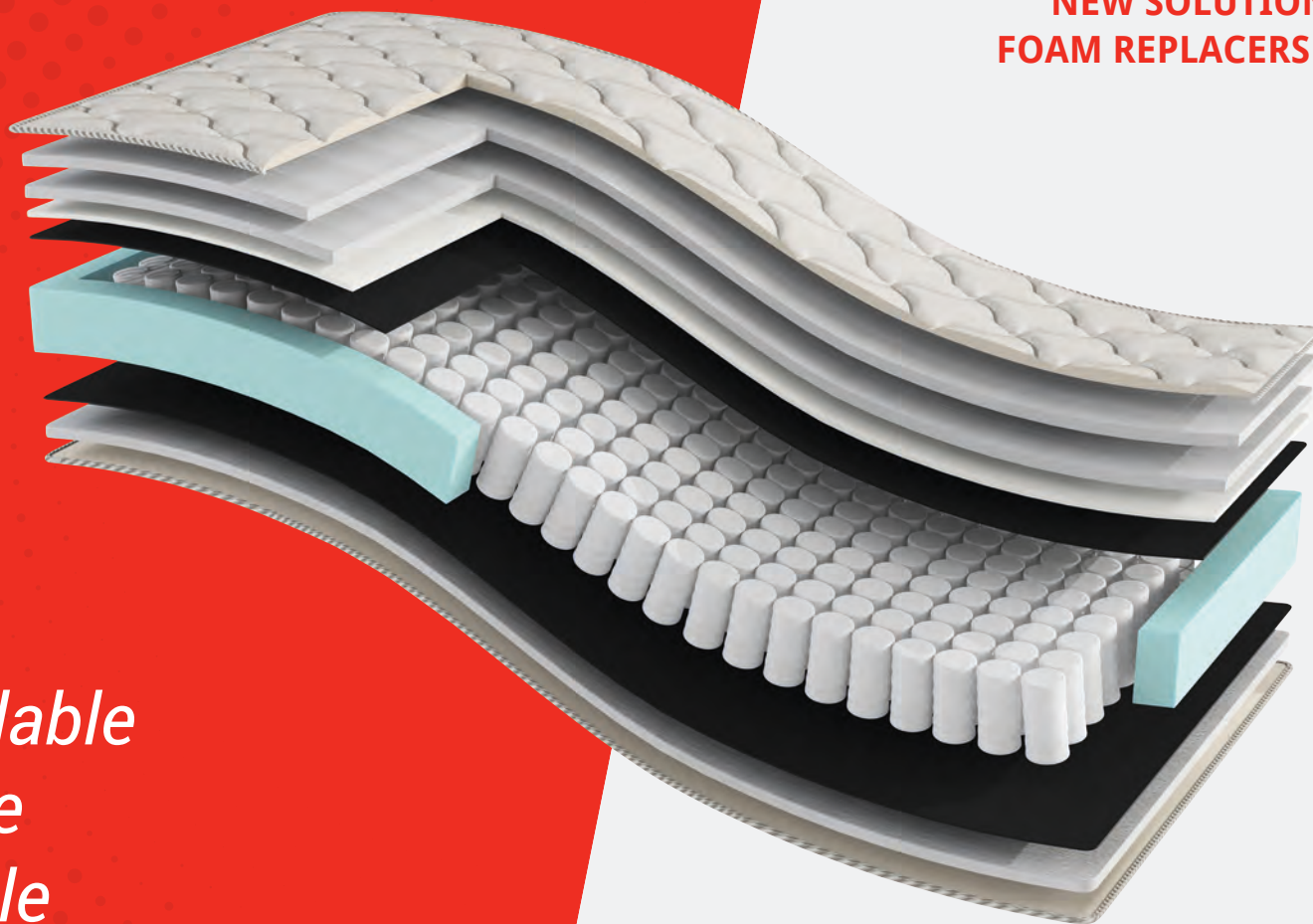




FLEXIPAD

NEW SOLUTION TO MANUFACTURE
FOAM REPLACERS AND COMFORT LAYERS



*Affordable
Simple
Flexible*

COMFORT LAYERS

FOAM REPLACERS



Empower circularity
by using your scraps

FLEXIPAD

*Solution for the mattress industry focused to empower circularity by producing **foam replacers** and **comfort layers** using different production scraps and/or synthetic or natural fibers.*

WHAT TO DO WITH YOUR SCRAPS?

Empower the circularity



Give a positive environmental impact to your business and reduce your external raw material consumption!

Designed to be:

FLEXIBLE, to have in-house capacity to manufacture different foam replacers and comfort layers as well as to increase the product development ability, by controlling costs and performance.

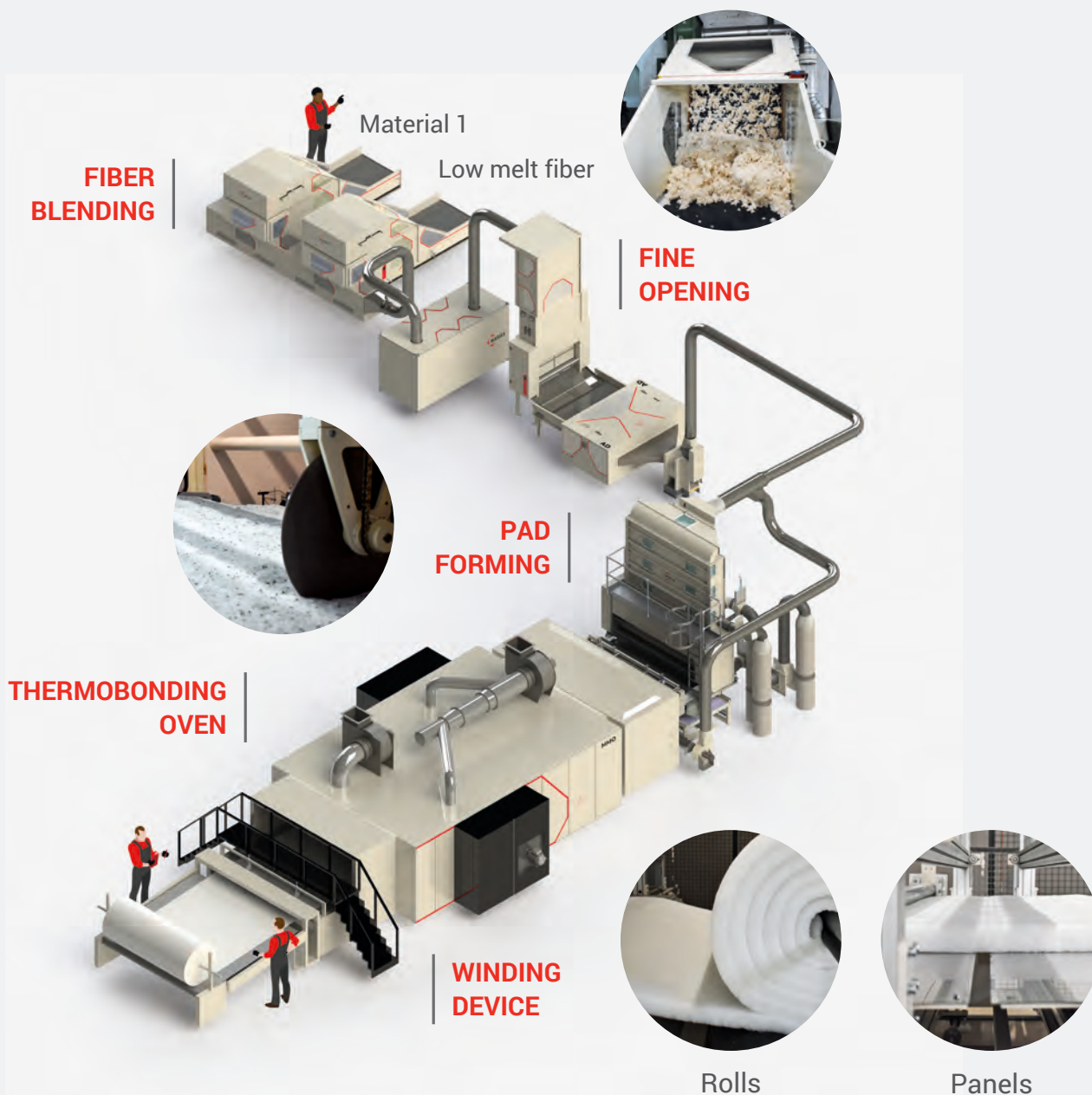
SIMPLE TO OPERATE, because there is no need for skilled operators to run and maintain the line.

The equipment is fully manufactured by Masias, to have an accurate budget to deliver a **COMPETITIVE** line and one hand after-sales service.



Flexipad Basic

Ready to manufacture a wide range of products by loading different foams or fibers mixed with a thermobonding fiber.



WHICH MATERIAL CAN YOU USE?

SYNTHETIC OR ARTIFICIAL FIBERS



Polyester



Lyocell



Shoddy Fibers

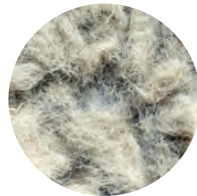
NATURAL FIBERS



Cotton



Wool



Hemp

MANUFACTURING SCRAPS



Foam



Mattress Scraps

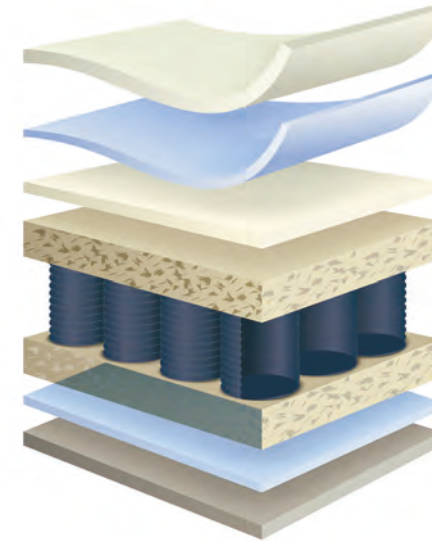


Quilts Scraps

DESIGN YOUR MATTRESS

COMFORT LAYERS

- Polyester
- Natural fibers



PU SUBSTITUTION: FOAM REPLACER

- Quilting
- High density

*Personalize
the comfort
of your
customers*

*Be sustainable
in your
mattress*

Product performance

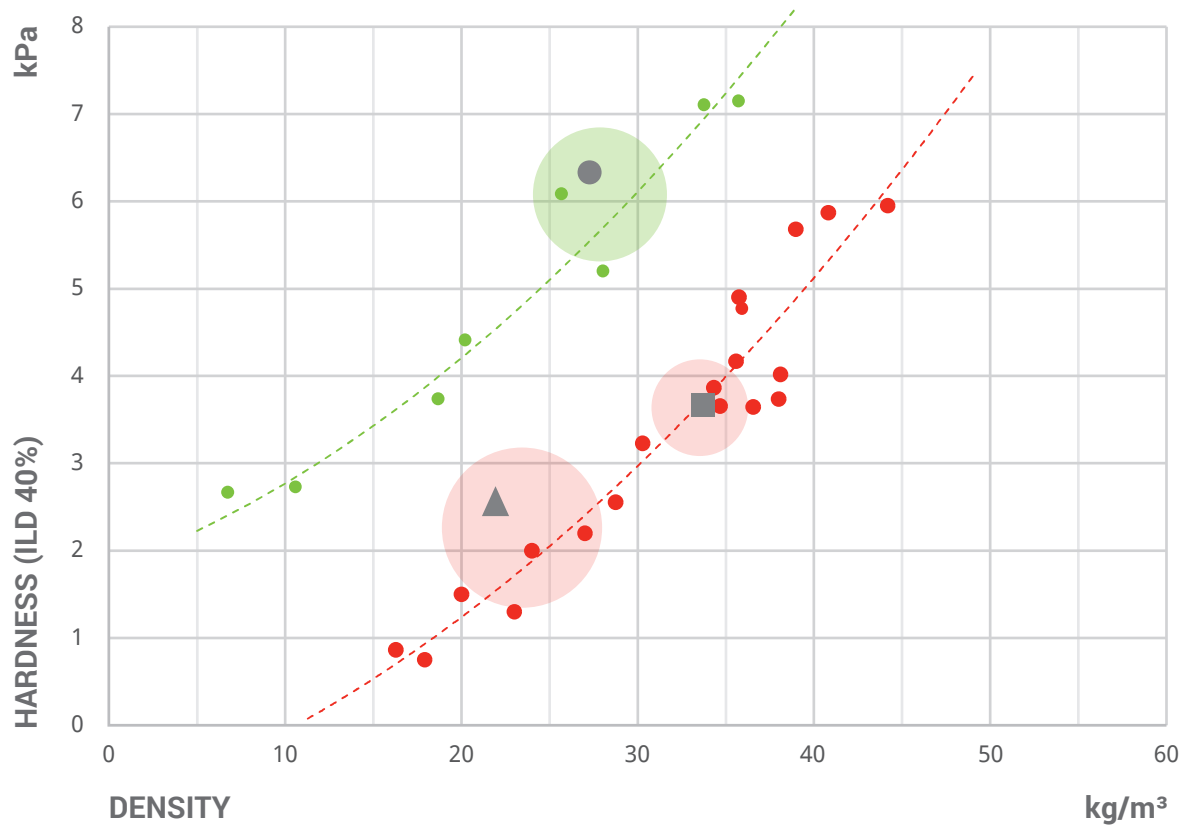
By manufacturing foam replacers with Flexipad solution you will be able to substitute foam layers with a circular and cost effective product, without losing product qualities.



FOAM REPLACER VS FOAM

FOAM REPLACERS

Searching for the equivalent



POLYURETHANE FOAM

- ▲ FOAM 22 kg/m3
- FOAM 28 kg/m3
- FOAM 34 kg/m3

FOAM REPLACER 1

- 50% FOAM
- 30% QUILTED SCRAP
- 20% LOW MELT

FOAM REPLACER 2

- 50% FOAM
- 30% FABRIC SCRAP
- 20% LOW MELT

COMFORT LAYERS

Flexipad polyester waddings are similar to other market waddings made by different technologies.



GRAMMAGE
VARIATION

FLEXIPAD WADDING

± 2-5%



MARKET WADDING

± 1-4%



RECOVERY

95-98%



95-98%



ELONGATION /
STRAIN

35-65%



35-70%



NATURAL WADDINGS

Flexipad is also compatible with natural fibers. Cotton, wool or hemp will provide a higher comfort thanks to its breathability or thermo-regulation.



Flexipad Packs

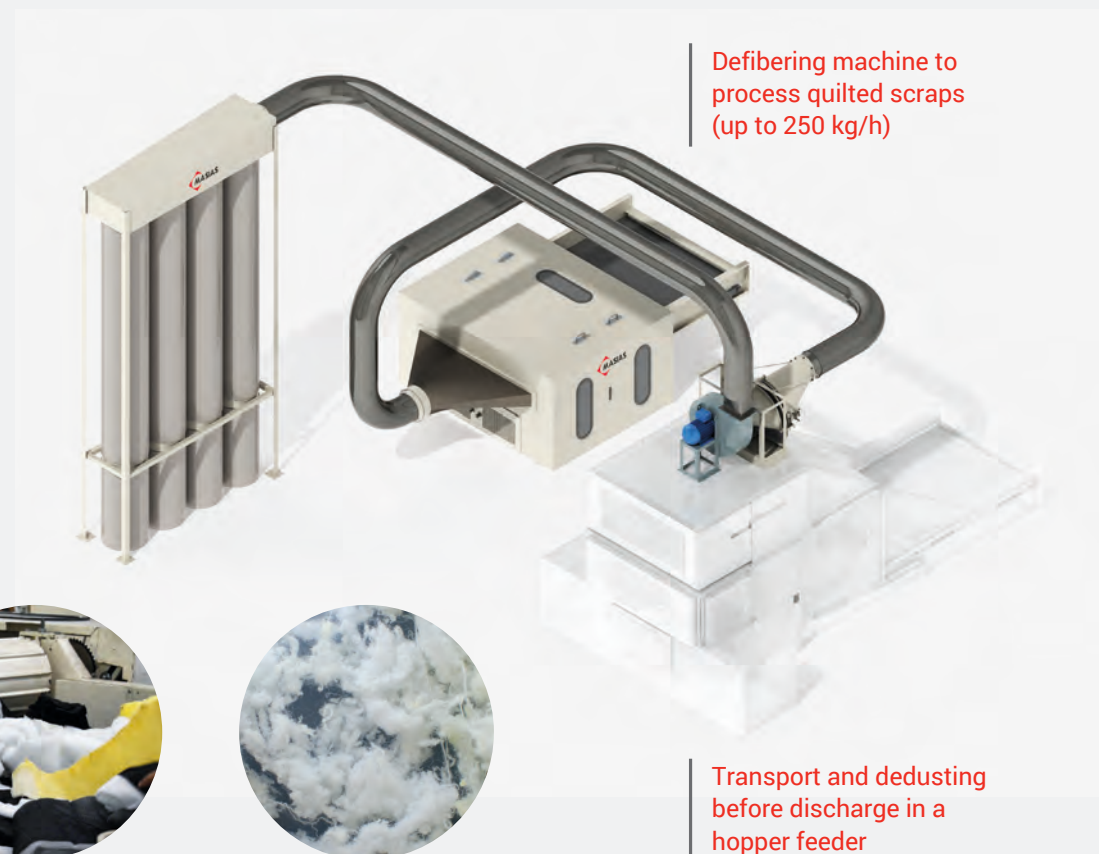
Complement Flexipad solution by adding different packs to improve the line depending on your needs.

MODULAR

Grow as you go!

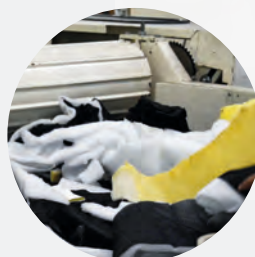
CIRCULAR PACK

Give a second life to your quilted textile scraps with our defibering machine.



Defibering machine to process quilted scraps (up to 250 kg/h)

Transport and dedusting before discharge in a hopper feeder



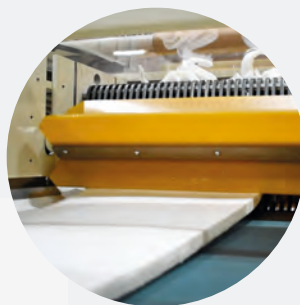
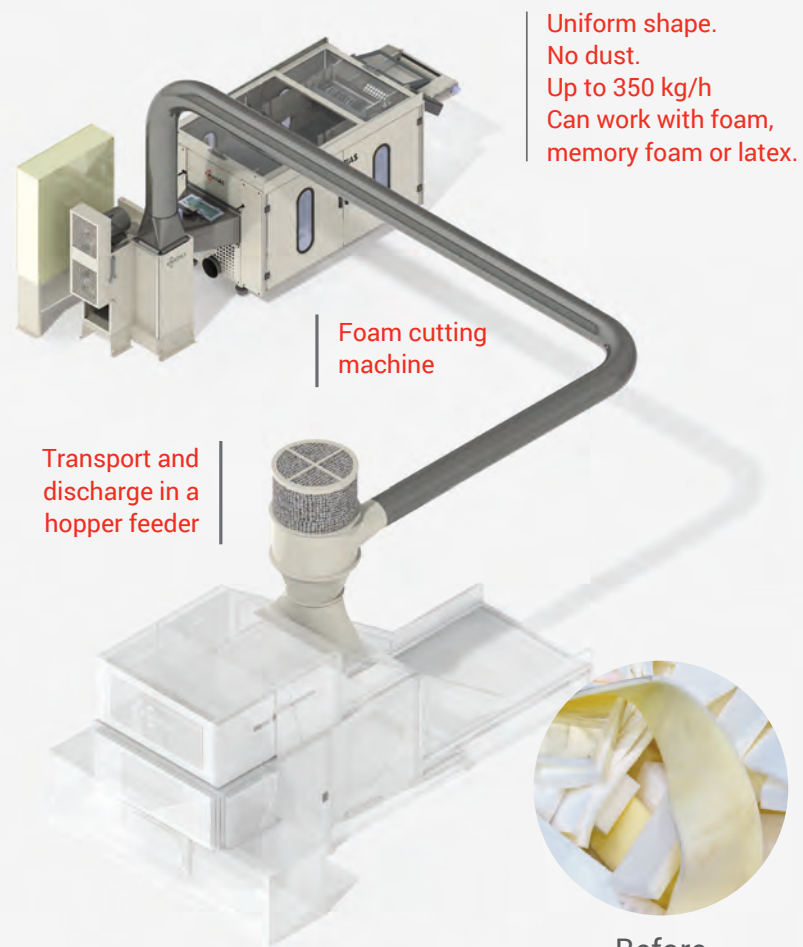
Before



After

FOAM PACK

Cut foam to take advantage of the foam properties of your scraps or leftovers.



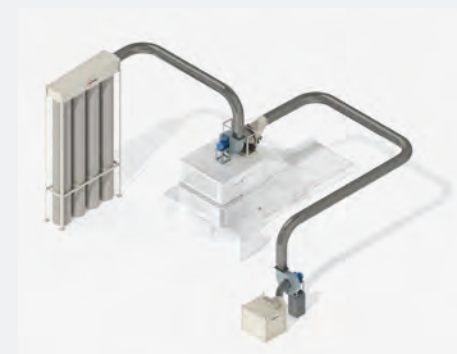
EXTRA MATERIAL PACK

Add more materials to the mixture to have more product options.



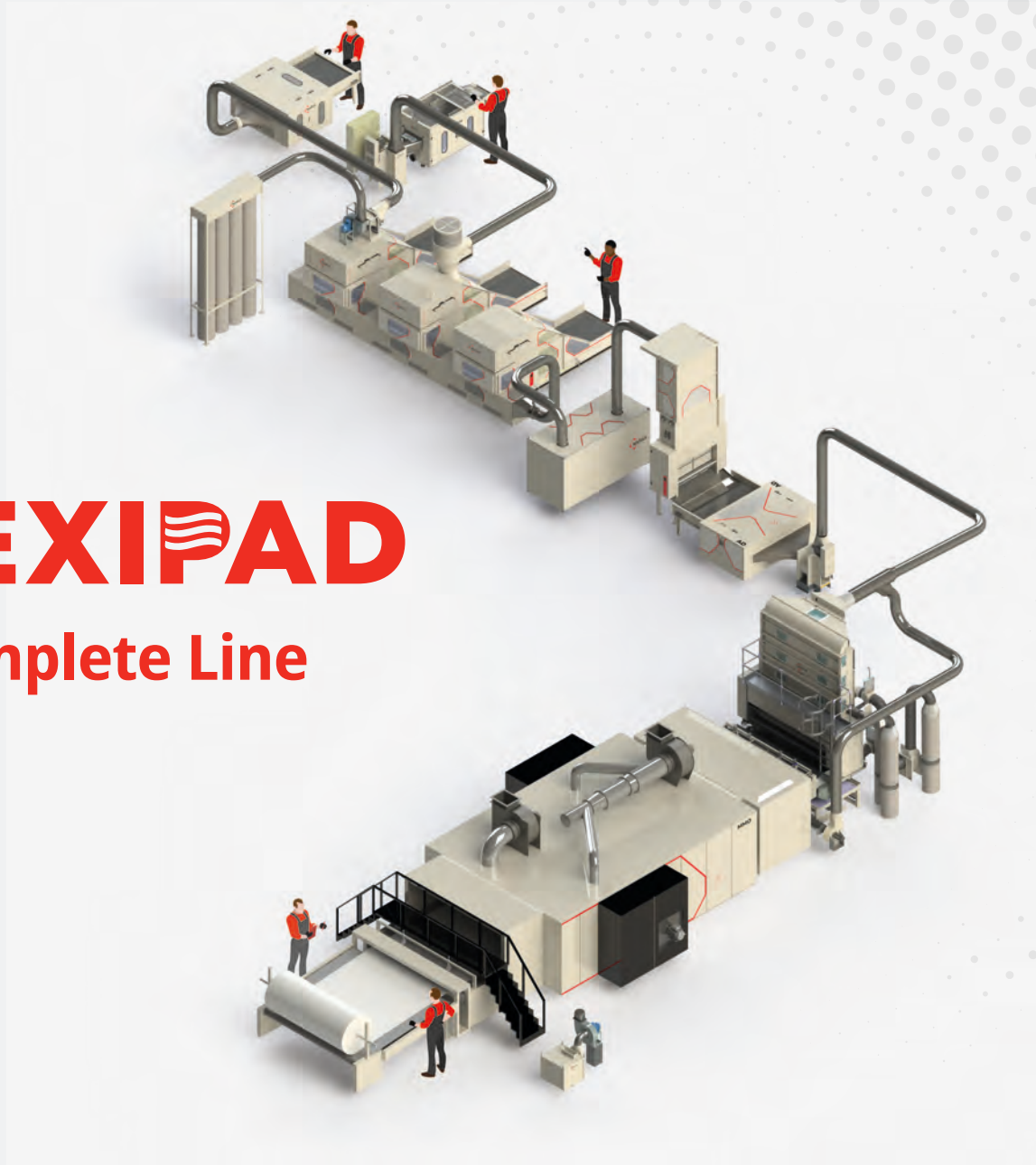
TRIM PACK

Defiber and recover the trims and send them back to beginning of the line, and avoid material loss.



FLEXIPAD

Complete Line



SURFACE
750 m²

INSTALLED POWER
240 kW

COMPRESSED AIR
200 l/min to 6 bar

OPERATORS NEEDED
3-5

LINE SUMMARY

	COMFORT LAYERS	FOAM REPLACERS
WEIGHT	150-800 g/m²	300-2000 g/m²
CAPACITY	UP TO 500 kg/h	UP TO 800 kg/h
PROPERTIES	SYNTHETIC FIBERS NATURAL FIBERS	THICKNESSES 1,5-10 cm DENSITIES 12-45 kg/m³



Compact



Flexible



User friendly



Easy to mantain

Visit our pilot plant!

Order industrial samples



Masias Maquinaria S.L.

Major de Santa Magdalena 1
17857 Sant Joan les Fonts • Spain
Tel. +34 972 29 31 50

masmaq@masias.com
www.masias.com