

SANTEX
RIMAR
GROUP

SperottoRimar



DECOFAST 4.0

THE EVOLUTION OF
CONTINUOUS DECATIZING PROCESS
UNDER PRESSURE

DECOFAST 4.0

Decofast 4.0, combines the best smart solutions in relation to mechanical and electronic components with a choice of configurations which enable the machine to process both woven as well as knitted fabrics.

In both cases special attention has been given to the fabric tension control which must be particularly effective when dealing with fabrics containing elastan.

The configuration for knitted fabrics is specifically designed in order to have an accurate selvages uncurling action which prevents any unevenness during the process.

The vessel steam pressure reaches up to 3 bars.

No mechanical elements touch the felt belt avoiding any friction which may cause an unusual consumption in specific felt surface areas.

Best efficiency electrical components and reliable software.

Easy maintenance activities as internal access is possible on both sides of the machine.

In line with Industry 4.0 features, Decofast 4.0 together with ATHENA¹, becomes an active and autonomous part of the production, controlling in real time the inputs/outputs set up and handling incurred malfunctions or production defects.

Process

The continuous decatizing under steam pressure is characterized by the action of direct steam on the fabrics with pressure values settable up to 3 bars.

This can be achieved through the following components: steam heated drum – specially designed steaming tank - sealing devices granting a constant steam pressure as set.

The fabric enters the machine and gets in contact with an endless felt belt which leads the fabric through the intense steaming and following steam extraction section. The fabric temperature is highly reduced due to the efficient steam removal thus setting the fabric modifications occurred during the process.

By acting on the working parameters setting (drum and vessel steam pressure, felt tension and suction degree), a wide range of effects in terms of fabric touch, appearance and stabilization can be achieved.

Drum and steaming tank steam pressure values adjustment is totally independent in order to work at the presence of more or less humidity to be transferred to the fabric in accordance to the final result to be achieved.

Advantages of Decofast 4.0

Decofast 4.0 meets the increasing demand of the continuous decatizing treatment, which, beside the traditional range of worsted and woollen fabrics, is extended to knits and woven fabrics made in a wide number of fibre blends, ranging from cellulosic to synthetic.

Final decatizing treatment on pure wool worsteds and woollens:

- High speed fabric preparation before the kier decatizing process.
- “Finish” decatizing after the kier decatizing process in order to remove excess of stiffness resulting after the kier decatizing. Improvement of tailoring parameters and fabric “touch”.

Final decatizing treatment to diversify the fabrics appearance and touch in case of:

- Silk and silk blends
- Rayon, rayon/synthetic blends
- Polyester/viscose
- Synthetics and blends

The machine is suitable to process circular and warp knitted fabrics including all blends containing also elastomeric fibres.

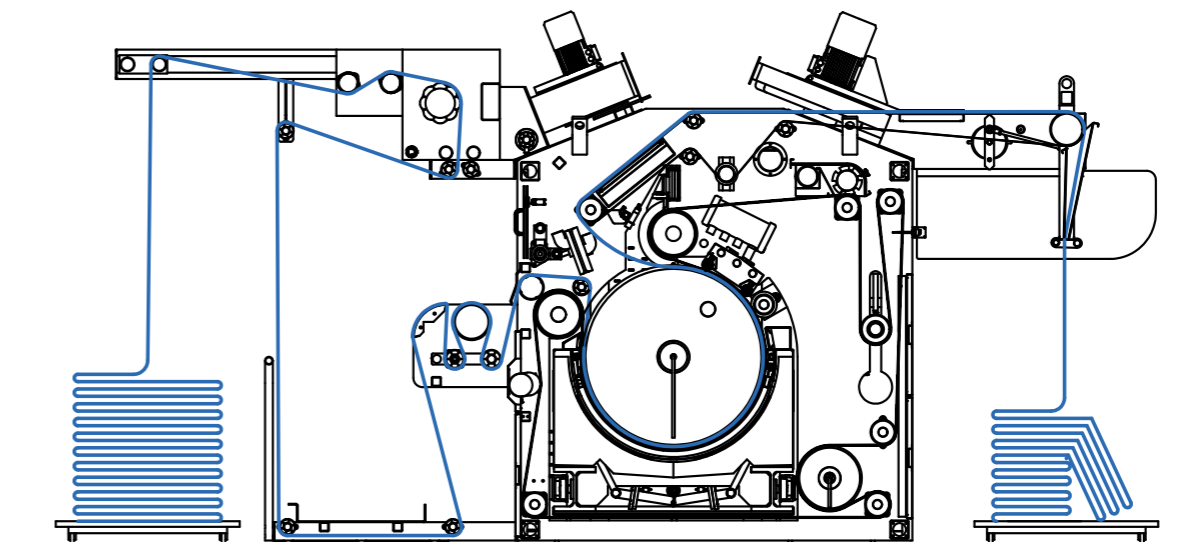
TECHNICAL DATA

Working width	180 - 220 mm
Mechanical speed	4 - 40 m/min
Working speed	4 - 40 m/min
Absorbed load	55 kW
Saturated steam pressure	6 bar
Compressed air feed pressure	6 bar
Noise level	<79 dB(A)
Average steam consumption (approx.)	500 Kg/h

NEW

HIGH-PERFORMANCE STEAM EXTRACTION SYSTEM

High performance thermal shock preserves felt belts and reduces maintenance costs



¹ SANTEX RIMAR GROUP data analysis tool to get and maintain quality production standards

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