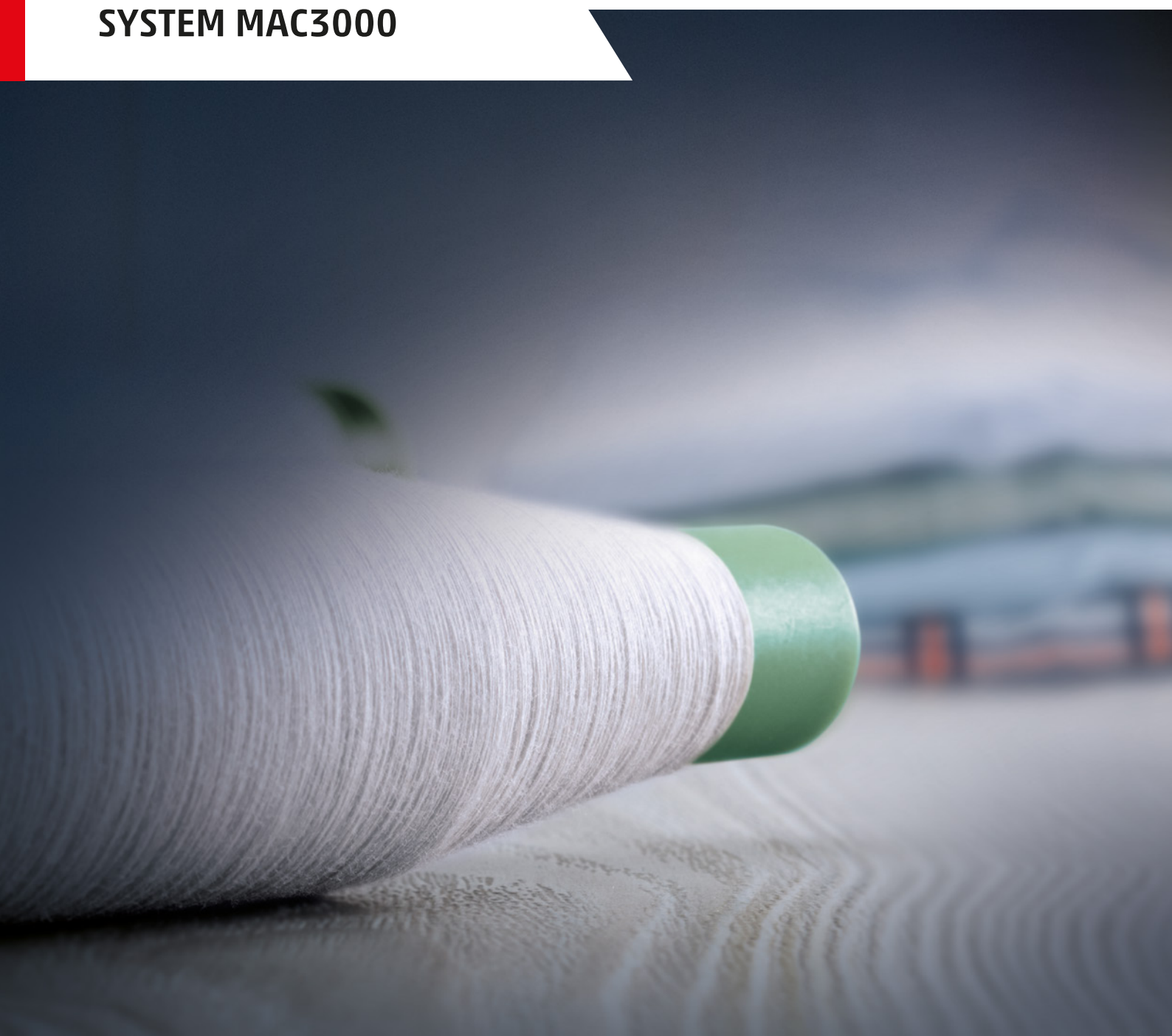


OVERVIEW



Textile Engineering

MARZOLI COMPACT SYSTEM MAC3000



MARZOLI MAC3000

Technology for top quality & flexibility



KEY POINTS

- ENERGY CONSUMPTION DOWN BY 30 - 40% COMPARED TO COMPETITOR SOLUTION
- INDEPENDENT SUCTION SYSTEM
- INDEPENDENT AUXILIARY CYLINDER



MAIN FEATURES

1. Extra-long compacting area:
great quality results also with long staple
(up to 60 mm) fiber.

Tailored compacting apron depending
on fiber and count.

Visible compacting area, easy maintenance.

Maximum machine efficiency and minimum
downtime for cleaning and maintenance
thanks to the self-cleaning apron.

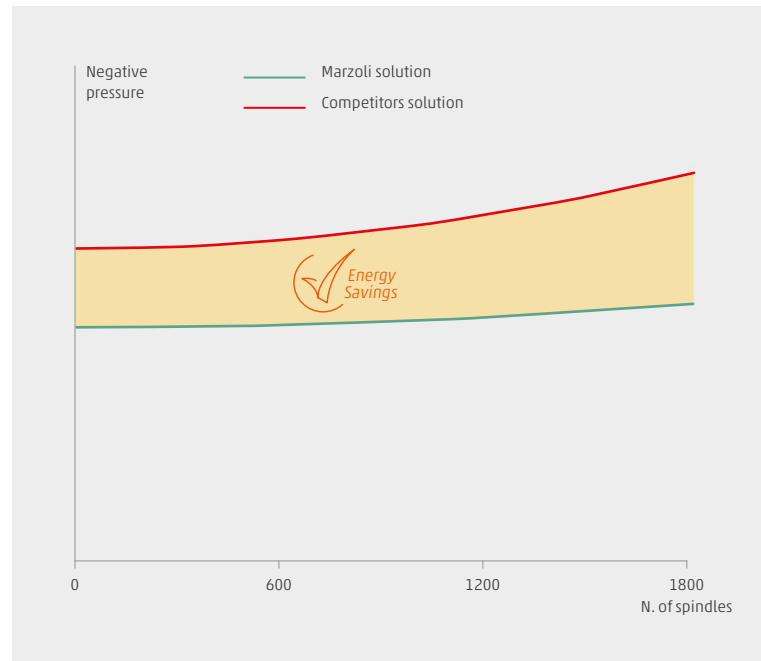
2. Independent vacuum system so that
the dust does not contaminate the clean
waste in the machine filter.

Constant air flow and low energy
consumption thanks to auto cleaning
filter box: no fiber accumulation on
the filter surface thus no need
to vary the speed of the motor fan.

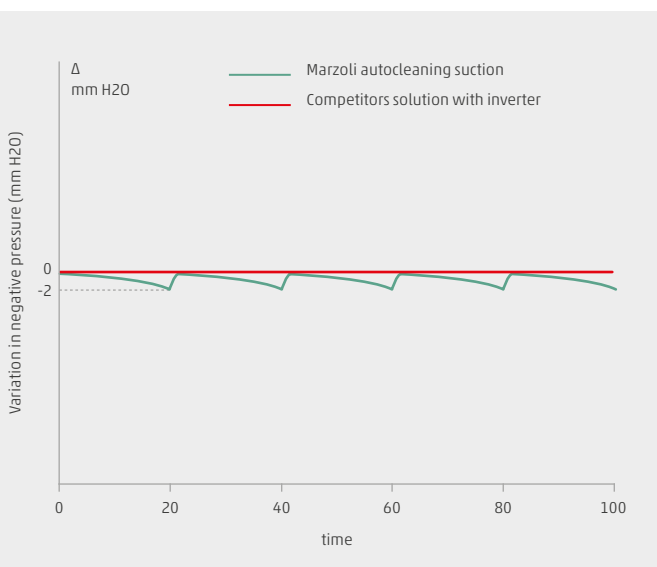
MAC3000 SUCTION SYSTEM

Marzoli Mac3000 suction system has been designed to reach a constant negative pressure along the machine and minimize energy consumption. The self-cleaning filter box, the special design of the duct and pipes and of the nozzles ensures:

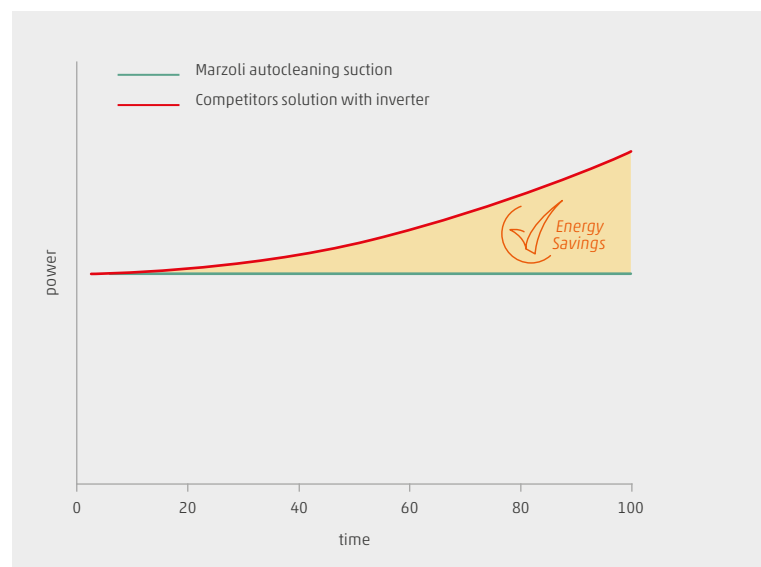
- reduction of the required negative pressure by 25 - 30 % compared to a competitor solution with same compacting quality;
- a negative pressure variation below 15 mm H₂O along the machine on machines up to 1,824 spindles;
- reduction of energy consumption by 30% - 40% compared to a competitor solution with same compacting quality.



SELF CLEANING FILTER BOX



Negative pressure is kept almost constant and energy is saved thanks to Marzoli self-cleaning filter box. Compared to competitor solutions with inverter, the filter surface is continuously cleaned, with a settable frequency,



so that the motor fan can run at the same lower speed, thus entailing substantial energy savings and giving the possibility to always set the best cleaning frequency for each type of fiber and count.

INDEPENDENT SUCTION SYSTEM

Fully-settable pressure on an independent and frequency controlled suction system to reach the best trade off between compacting quality and energy savings according to fiber and count.

Because of the independent filter box, the dust being sucked in the compacting area does not contaminate the clean waste in the machine filter.

COMPACTING AREA

Outstanding and constant compacting quality stems. One of the longest compacting areas available on the market gives more time to the fiber strand to be effectively compacted and gives the spinner the possibility to compact extra-long staple fibers (e.g. synthetic and technical fibers) with outstanding quality results.

The special design of the compacting apron, its tension, flexion and relaxation entail an auto-cleaning effect to minimize the chances of clogging of the holes. The apron is visible by the operator while the machine is running so that supervision is easier than with any other system.



The aprons are designed and manufactured by Marzoli according to the fibers and counts to reach the best compacting results. Reduced energy consumption stems from the special design of the suction nozzle that minimizes pressure loss.

AUXILIARY CYLINDER

Possibility to adjust the tension of the fiber strand in the compacting area as the auxiliary cylinder is driven by a dedicated servomotor. The effects on quality parameters are substantial.



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