

AUTOMIXER B143L

Technology for effective blending
and dedusting at high production levels



Marzoli

Complete spinning line,
components and digitalized
solutions for the best performance
of the spinning process



THE ONE SOURCE FOR A FULLY-AUTOMATED AND DIGITALIZED SPINNING MILL



Marzoli, one of the major brands of the textile sector worldwide, is a unique European manufacturer of the complete line of machines for the opening, preparation and spinning of short-staple fiber. From the bale opener to the ring spinning frame, Marzoli offers the most advanced technology for a completely-automated spinning mill. Through its global sales and service network, its expertise on each type of fiber and application and the competence on the entire process, Marzoli represents a competent and reliable partner. And through its experience, know-how and commitment, it provides its customers with:

- Advanced spinning solutions through a careful activity of textile engineering. Marzoli assists its customers from the study of the spinning plan, throughout sourcing, erection and commissioning, up to maintenance of the resulting turnkey spinning plant, which can comprise Marzoli but also third-party machinery. The customer can rely on the competence and capability of a unique partner, responsible for the quality and productivity of the entire spinning mill.
- The advantages of smart spinning. No matter what the brand(s) of the machinery is, Marzoli can install its software platforms, YarNet and MRM, its hardware applications for gathering data on waste percentages and its composition, quality values, productivity indexes and other kpi data to let the customer build on the potential of Industry 4.0, optimize the entire spinning process through well-informed decisions and reach the highest performance in production operations.

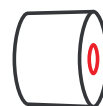
OVER
170 ■ YEARS
OF SUCCESSES

OVER
70 ■ COUNTRIES
WITH ACTIVE CLIENTS



OPENING SECTION

- Openers & Cleaners
 - Mixers & Blenders
 - Card
-



COMBING SECTION

- Draw Frames
 - Lap Winder
 - Comber
 - Lap Transport
-



SPINNING SECTION

- Roving Frame
 - Ring Spinning Frame
 - Bobbin Transport System
-

AUTOMIXER B143L

Technology for effective blending and dedusting at high production levels

KEY POINTS

- TOP BLENDING PERFORMANCES AND ABSOLUTE RELIABILITY
- HIGH PRODUCTIVITY (1,600 Kg/h)
- NO NEPS FORMATION
- EXCELLENT DE-DUSTING
- LOW ENERGY CONSUMPTION



An effective blending of cottons, ensures greater uniformity and stability of the blend, thus improving its performance and its commercial assessment.

The B143L with 4 or 8 blending chambers and working width of 1,600 mm, has been designed in order to achieve the following objectives:

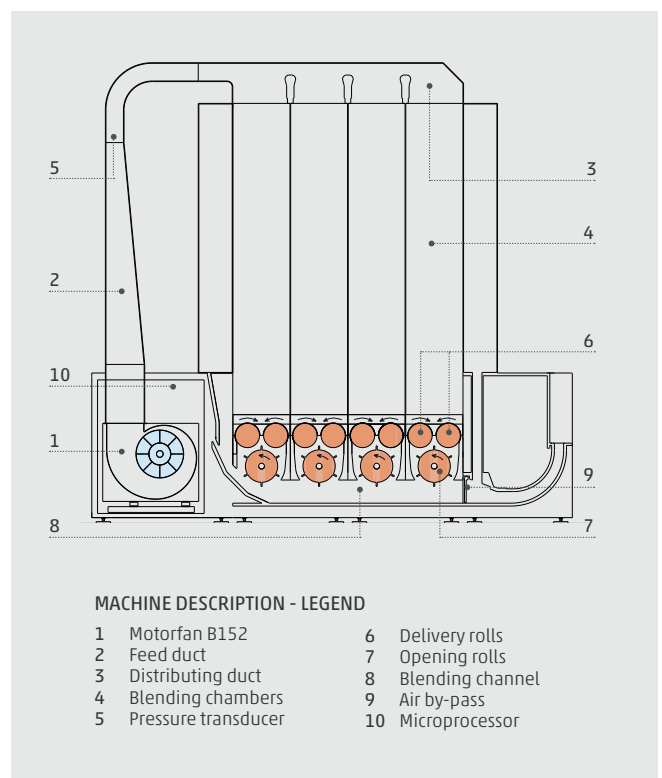
- Top blending performances;
- production up to 1,600 kg/h;
- absolute reliability;
- low maintenance;
- dedusting area of 10 m² (for the 8 chambers model).

Reliable performance

A smooth air stream delivers the fiber tufts to the blending chambers where the material is pneumatically compacted. A pair of grooved delivery rolls and an opening roll for each blending chamber open the raw material which is then mixed in the blending channel and sucked by the air stream of the cage condenser or the fan of the opener placed after the Automixer.

Soft treatment of the fibers

The innovative design of the transport fan allows to keep neps formation in the raw material to a minimum.



Design of the feeding hood

The particular design of the feeding hood allows a homogeneous distribution of the fibers among the cells of the mixer.

Large capacity

The design of the blending chambers of the B143L automixer allows production levels up to 1600 Kg/h, depending on the type of material.

De-dusting surface

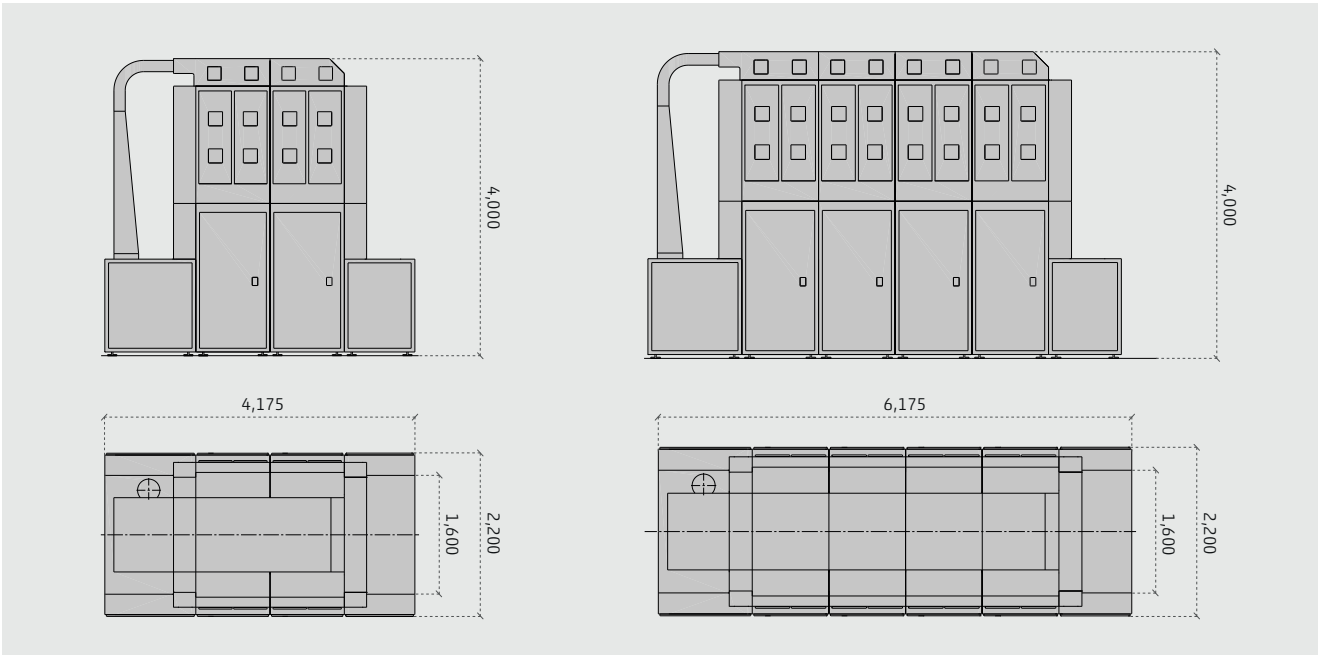
The large de-dusting surface of Automixer B143L allows an excellent removal of the dust from the raw material even when working at high production volumes.



Low power consumption

Despite its high production capacity, the B143L automixer has outstandingly low installed-power and energy-consumption levels.

TECHNICAL DATA



B143L	
Processed material	Cotton, man-made fibres and blends up to 65 mm length Production up to 1,600 kg/h with 8 chambers depending on the processed raw material
Storing capacity	550 kg cotton fibers (8 chambers) 450 kg man made fibers (8 chambers)
Installed power including B152	11.2 kW (4 chambers) 11.4 kW (8 chambers)
Working width	1,600 mm
Net weight	4,000 kg (4 chambers) 5,200 kg (8 chambers)
Power Consumption to process 100 kg of raw material	
0.71 kW	

SOFTWARE PLATFORMS

END2END PRODUCTION MANAGEMENT PLATFORM: YARNET

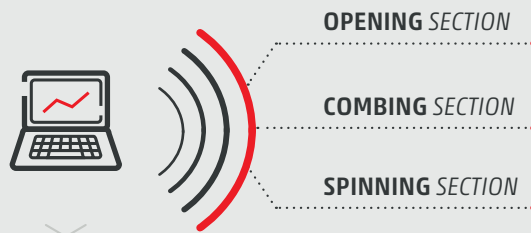
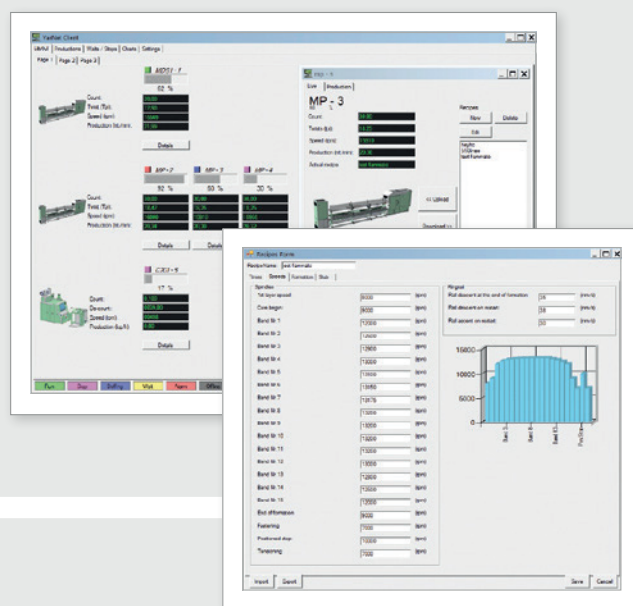
YarNet is Marzoli production management software. It enables the monitoring of production levels, efficiency rates and downtime for both individual machines and the entire spinning mill. Comparisons between machines on selected periods of time are made very simple so that improvement opportunities can be easily identified. YarNet enables the operator to edit production recipes, downloading and uploading them between any machine and their computer. He can also export them in Excel format to share with colleagues as necessary. YarNet gathers and analyses data about production and energy consumption, giving a visual representation of the tradeoffs (kW/kg).

MRM

MRM is Marzoli software to continuously monitor the operating conditions of textile machines. It can identify developing malfunctions before a fault occurs and highlight improvement opportunities on efficiency rates and energy consumption levels. Data about temperature, power consumption, speed and vibration are collected from PLCs (programmable logic controllers) and sensors installed on each machine. The software verifies the monitored parameters are within the nominal operating ranges; it can even adjust for room temperature variations to ensure continuous optimisation. If any parameter is out of tolerance, an automatic email alert is sent to the customer. The customer can also access the dedicated online portal to see information for predictive maintenance and of the overall efficiency of the plant. Through dedicated modules (Optimisation Tools) it is possible to optimise the performance of every machine, in particular on energy consumption and levels of efficiency. If required, Marzoli's customer service team can access the data to diagnose actual and developing problems and recommend appropriate actions.

KEY POINTS

- EASY & FAST CONTROL OF EVERY STAGE OF THE SPINNING PROCESS
- IMPROVED SPEED OF RESPONSE IN PRODUCTION OPERATIONS
- EASY MANAGEMENT OF PRODUCTION RECIPES
- SUPERIOR, EASIER AND FASTER MAINTENANCE



BENEFITS

- Higher productivity
- No machines unplanned downtimes
- Prevention from major machine failures
- Longer plant lifespan
- Higher efficiency
- Complete reliability
- Trouble free spinning experience
- Better maintenance planning



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