

DUST SEPARATOR B450L

Effective and efficient dedusting



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

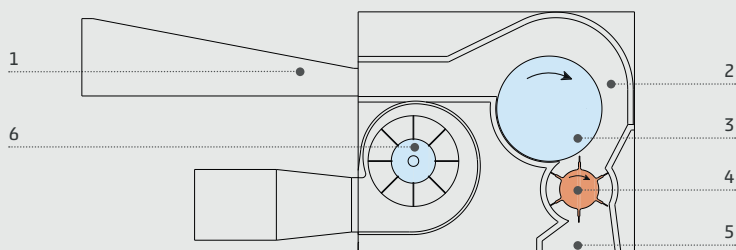
DUST SEPARATOR B450L

Effective and efficient dedusting

A smart and efficient solution to clean the raw material from dust, pepper trash and micro fibers is the innovative B450L. The tufts of raw material, coming from the B12, go through the B450L's conveyor and hit its perforated cylinder. The design of the conveyor and the large working width of the perforated cylinder ensure a strong impact of the tufts against the cylinder while the optimized air flow for fiber transportation ensures low power consumption. The perforated cylinder is sucked from both sides through an integrated motor fan. This ensures that the tufts are better distributed on the cylinder and better cleaned. The cylinder rotates and delivers the dedusted tufts to a detaching roller which collects them and makes them fall into the duct. The B450 constitutes a smart solution also because it does not curl or damage the fibers in any way.

KEY POINTS

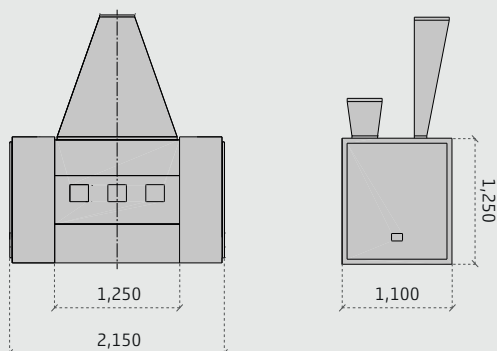
- HIGH DEDUSTING SURFACE
- NO NEPS CREATION
- PRODUCTION ABOVE 1,600 kg/h



MACHINE DESCRIPTION - LEGEND

- 1 Conveyor
- 2 Feeding box
- 3 Perforated cylinder
- 4 Detaching roller
- 5 Material delivery
- 6 Motor fan

TECHNICAL DATA



B450L

Processed material	Cotton, man-made fibers and blends up to 65 mm - Production up to 1,600 kg/h depending on the processed raw material
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Installed power	0.75 kW machine main motor Two options for the motorfan: 7.5 kW - 11 kW
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Working width	1,250 mm
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Air capacity	from 3,500 to 7,500 m ³ /h
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Power Consumption to process 100 kg of raw material, included motorfan	from 0.39 up to 0.73 kW
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SOFTWARE PLATFORMS

END2END PRODUCTION MANAGEMENT PLATFORM: YARNET

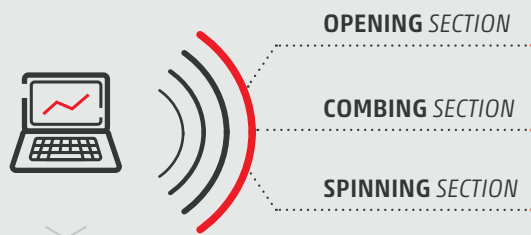
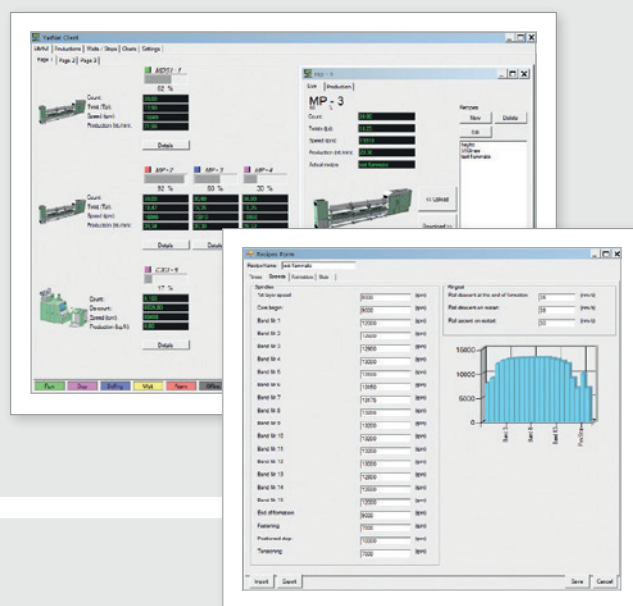
YarNet is Marzoli production management software. It enables the monitoring of production levels, efficiency rates and downtime for both individual machines and the entire spinning mill. Comparisons between machines on selected periods of time are made very simple so that improvement opportunities can 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



Textile Engineering

A Camozzi Group Company

marzoli.com

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