

DUO BLENDED CLEANER B380L

Technology for a gentle but intensive
opening and cleaning action



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

DUO BLENDED CLEANER B380L

Technology for a gentle but intensive opening and cleaning action

Gentle but intensive opening

The B380L duo blended cleaner allows to open and clean the raw material in a gentle but intensive way while working at high production levels. This is possible thanks to the progressive opening and carding action, which reduces the stress on the fibers without affecting the opening and cleaning outcome.

Fibers in the B380L are freely delivered to the first beater without being held by the nipping mechanism that traditionally occurs between the feeding roller and the feeding table.

The special pre-opening rolls reduce the fiber stress caused by the speed difference between the feeding roller and the beater.

The two beaters, with different pins densities, rotate at different speeds in order to further open the material but always with low stress on the fibers.

KEY POINTS

- GENTLE BUT INTENSIVE OPENING
- EXCELLENT CLEANING, WASTE REDUCTION AND HIGH FLEXIBILITY
- EFFICIENT DEDUSTING AND EFFECTIVE BLENDING
- EASY MAINTENANCE & CLEANING
- PRODUCTION UP TO 1,000 Kg/h

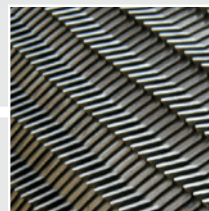
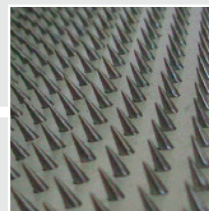
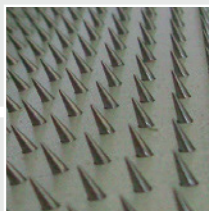


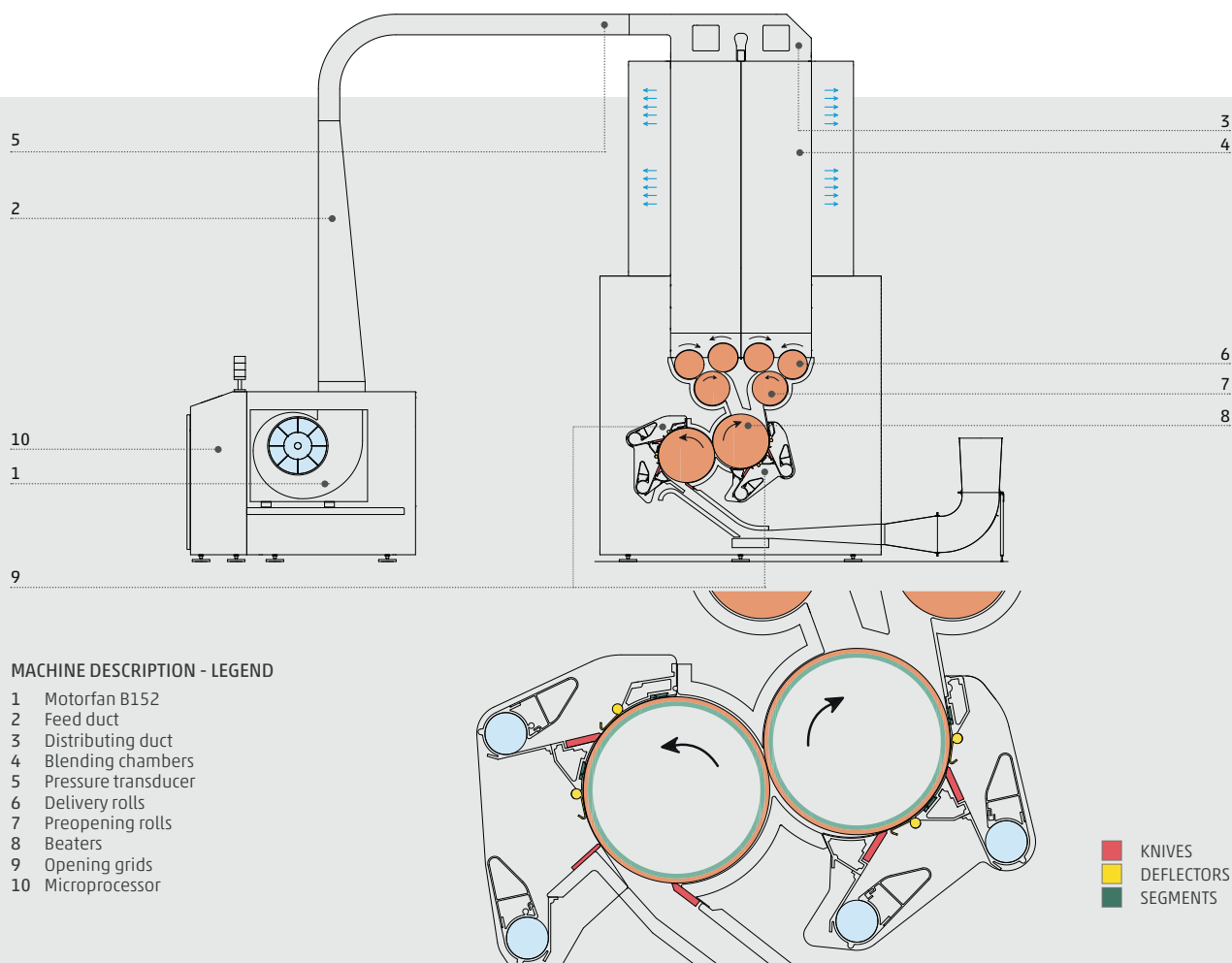
EXCELLENT CLEANING

The independent speed of the two beaters, controlled by inverter, can be set by keyboard, according to the processed raw material. The quality and quantity of the waste can be easily modified with a simple setting of the deflector blades.

WASTE REDUCTION

The progressive opening and carding action improves the selection of the fibers, thereby reducing the amount of waste with the same cleaning efficiency of the raw material.





High flexibility

The customer can choose between several types of beaters (pinned, needle and sawtooth) according to the fiber to process.

Moreover, the hoods with knives, the flaps and the suction pipes of the B380L duo blended cleaner can be opened in order to guarantee the highest level of accessibility of the machine and to allow a fast replacement of the beaters. This allows the customer to process several types of materials with the same machine always with the highest performances. Moreover, in blow room lines with several opening and cleaning points, it is possible to use only B380L with different configurations, instead of various types of machines. This reduces the number of necessary spare parts, with a great economic advantage for the customer.

Efficient dedusting

The B380L, thanks to its two blending chambers with a surface of 3 sqm, dedusts the processed material

before it enters into the machine. The trash particles and dust, removed during the opening action, are conveyed by the suction hoods to the client's centralized suction system. Permanent suction considerably improves dedusting of cotton.

Effective blending

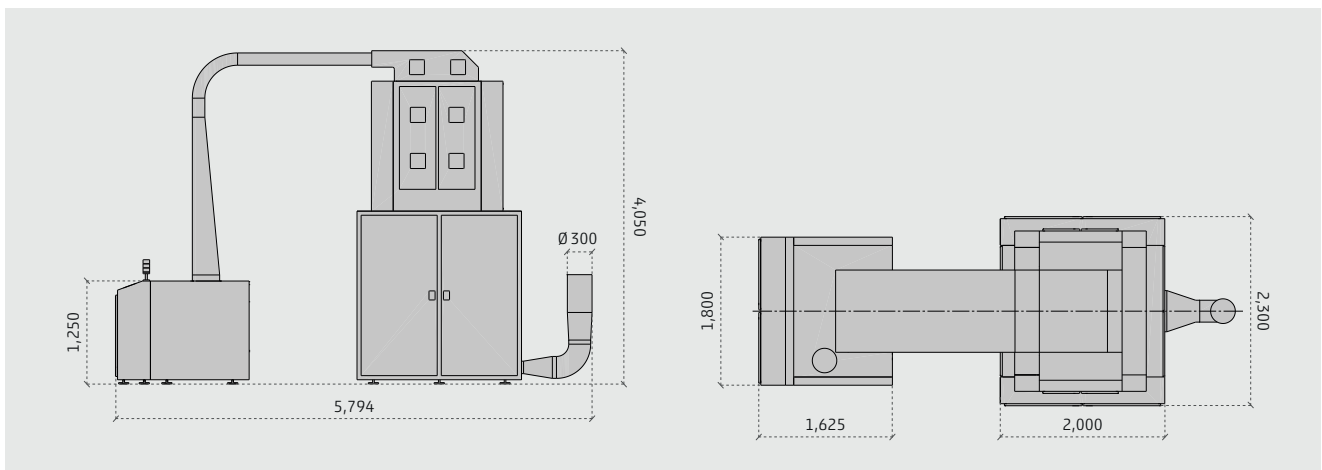
The B380L, through its two separated blending chambers, mixes the raw material. In blow room lines with one or more fine openers, the blending action of the B380L adds up to the blending capacity of the mixer and allows to obtain perfect blends.

Easy cleaning & maintenance

The B380L geometry guarantees the maximum accessibility to all the working organs. This makes cleaning and maintenance easy and effective, allowing the machine to always work at its best.



■ TECHNICAL DATA



B380L

Processed material	Cotton, man-made fibers and blends up to 1,000 kg/h depending on the processed material
Installed power	16.62 kW
Frame width	1,600 mm
Opening roll	400 mm dia.
Speed range	600 - 1,100 rpm
Net weight	4,340 kg

Power Consumption to process 100 kg of raw material 1.62 kW

SOFTWARE PLATFORMS

END2END PRODUCTION MANAGEMENT PLATFORM: YARNET

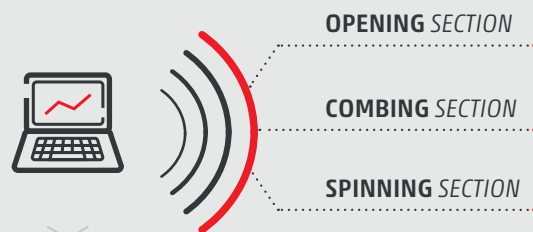
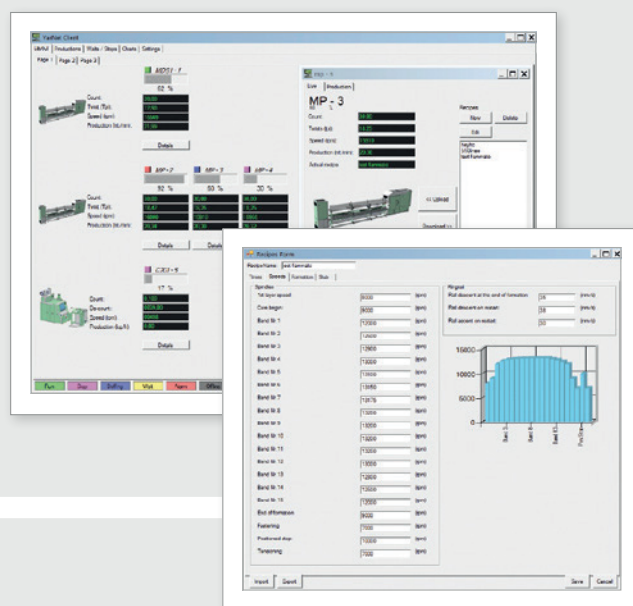
YarNet is Marzoli production management software. It enables the monitoring of production levels, efficiency rates and downtime for both individual machines and the entire spinning mill. Comparisons between machines on selected periods of time are made very simple so that improvement opportunities can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