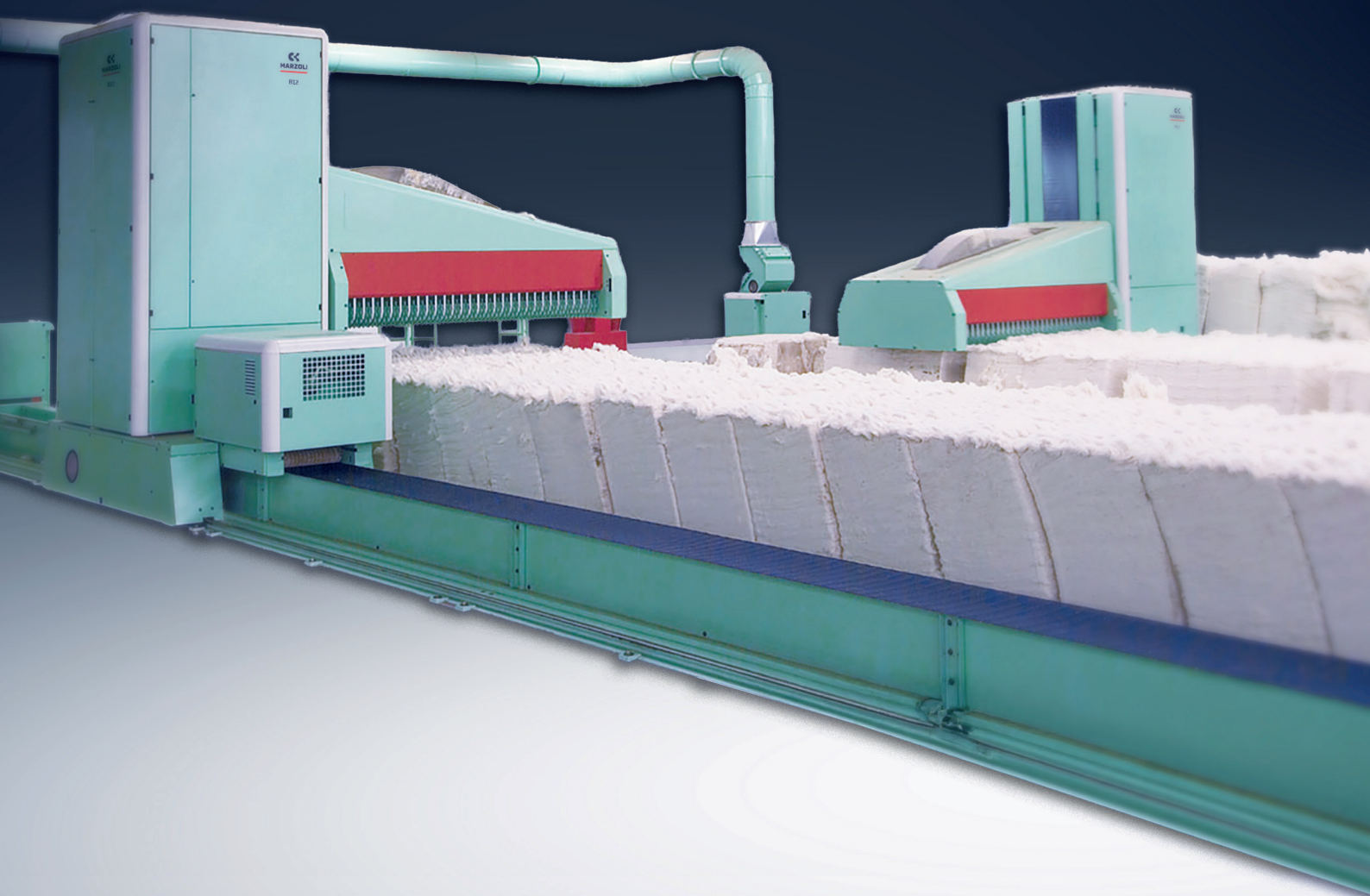


SUPERBLENDER B12

Fine raw material plucking



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

SUPERBLENDER B12

Fine raw material plucking

KEY POINTS

- 2 BEATERS AND 2 CONVEYING ROLLERS FOR FINE OPENING OF THE RAW MATERIAL
- MINIMUM STRESS OR CURLING OF FIBERS
- PRODUCTION UP TO 1,600 kg/h
- SETTABLE FOR TWO ASSORTMENTS

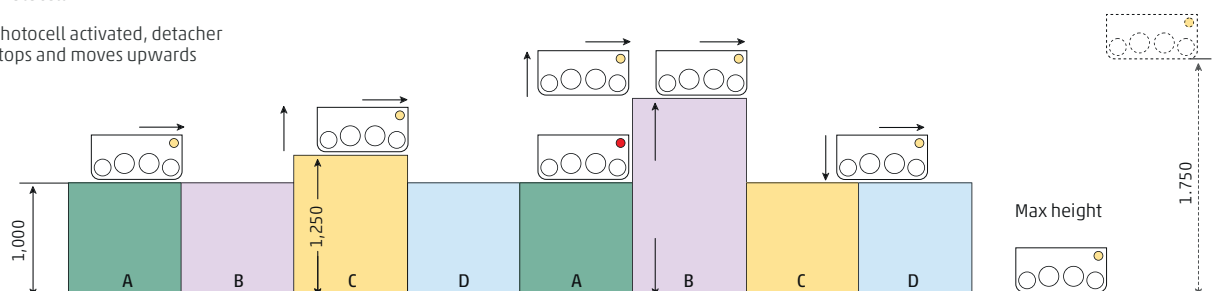


Superblender B12 outcomes:

- Very small flocks thanks to 2 beaters, each with 254 tips, and to 2 moveable conveying rollers that control the material during plucking;
- smooth and continuous material plucking all the way down to the floor thanks to the free and upright movement of the detachable and to the moveable conveying rollers;
- high reliability and safety;
- production capacity with one assortment and working width of the detachable of 2,250 mm of 1,600 kg/h (depending on the processed fiber);
- suction from downstream cage condenser to avoid the formation helicoidal air flows within the transportation tubes and consequently neps formation.

TECHNICAL DESCRIPTION - LEGEND

- Photocell
- Photocell activated, detachable stops and moves upwards



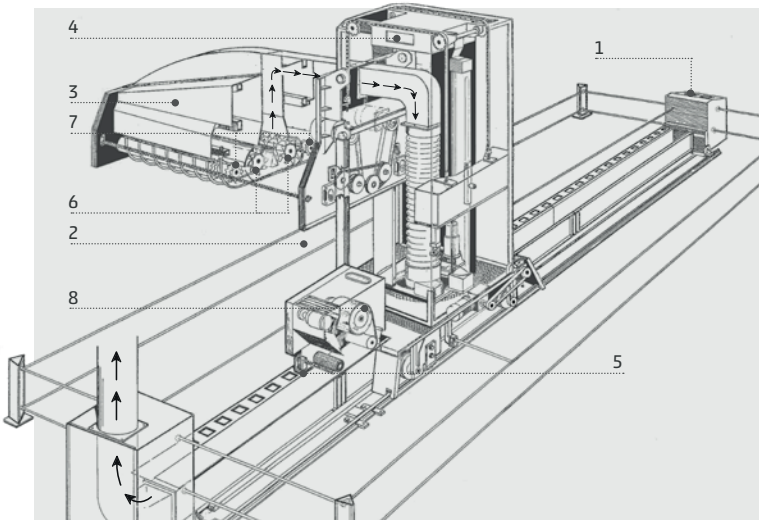
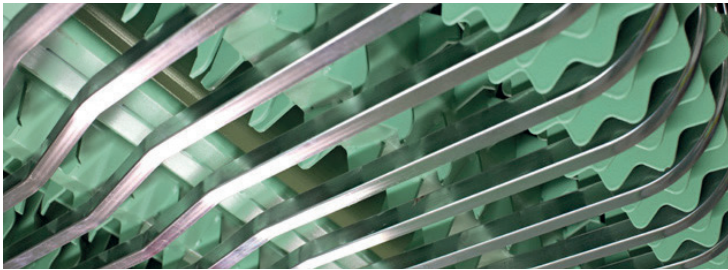
Automatic production adjustment

Vertically-movable grid with linear transducers to control tips penetration inside the bales and therefore adjust the amount of throughput (kg/h) according to:

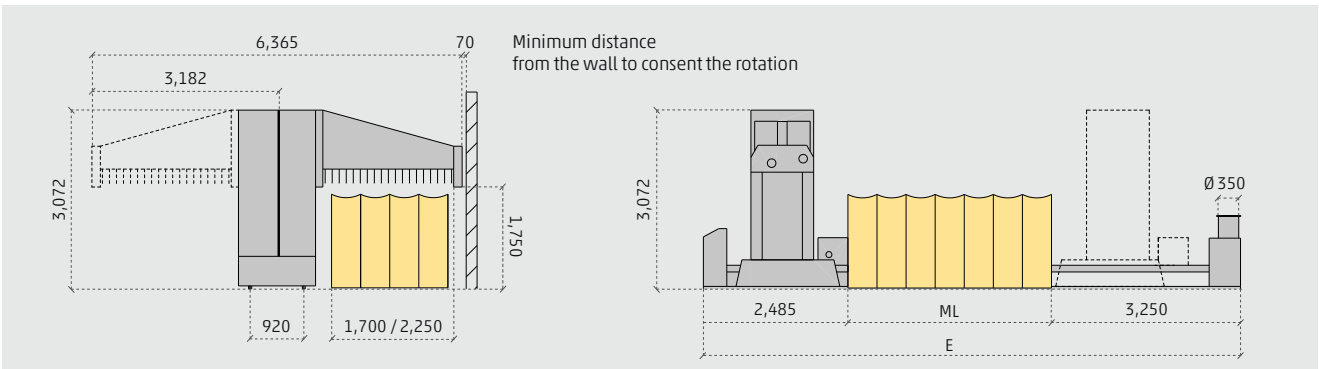
- the height of the bales, so that all bales are leveled at the same height;
- the amount of material inside the mixer:
a pressure switch, located on the mixer, acts directly on the B12 grid to increase its production when the material inside the mixer goes down, and vice versa.

MACHINE DESCRIPTION - LEGEND

- | | |
|------------------------------------|---|
| 1 Control panel | 6 Two plucking rolls |
| 2 Bale lay-down area | 7 Two vertically-moving conveying rollers |
| 3 Detacher (1,700 mm or 2,250 mm) | 8 Conveying winding roller |
| 4 Automatic rotating tower | |
| 5 Duct for material transportation | |



TECHNICAL DATA



B12	
Processed raw material	Cotton, man-made fibers up to 65 mm (2 1/2")
One assortment	B12 - 1,700 mm up to 1,100 kg/h B12 - 2,250 mm up to 1,600 kg/h Production depending on the processed fibers
Two assortments	B12 - 1,700 mm up to 800 kg/h B12 - 2,250 mm up to 1,100 kg/h Production depending on the processed fibers
Installed power	B12 - 1,700 mm 7.92 total kW B12 - 2,250 mm 9.92 total kW
Space available for bales	ML= E - 5,735 mm
No. of bales each side for one assortment (according to bales dimensions):	· wide carriage (ML/B) x 1.5 or (ML/L) x 3 · small carriage (ML/B) or (ML/L) x 2 ML= space available for bales B= bale width L= bale lenght
Duct length	E 11.13 - 46.13 m in steps of 2.5 m
Net weigth	B12 - 1,700 mm 3,500 kg B12 - 2,250 mm 3,700 kg Approx. 90 kg/m (for variable longitudinal parts)
Power Consumption to process 100 kg of raw material	0.68 kW

SOFTWARE PLATFORMS

END2END PRODUCTION MANAGEMENT PLATFORM: YARNET

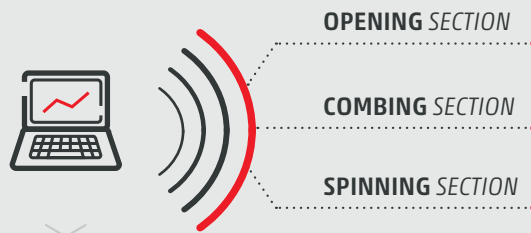
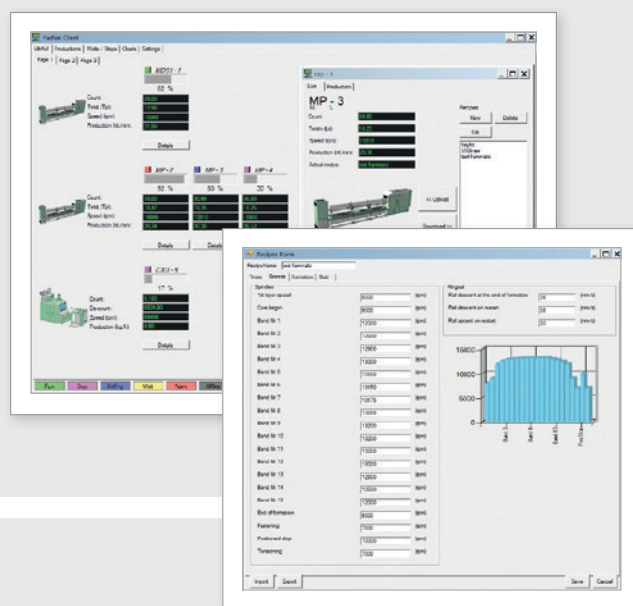
YarNet is Marzoli production management software. It enables the monitoring of production levels, efficiency rates and downtime for both individual machines and the entire spinning mill. Comparisons between machines on selected periods of time are made very simple so that improvement opportunities can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



A Camozzi Group Company

marzoli.com

Contacts

Marzoli Machines Textile S.r.l.
Via Sant'Alberto, 10
25036 Palazzolo sull'Oglio (BS)
Italy
Tel. +39 030 73091
sales@marzoli.it