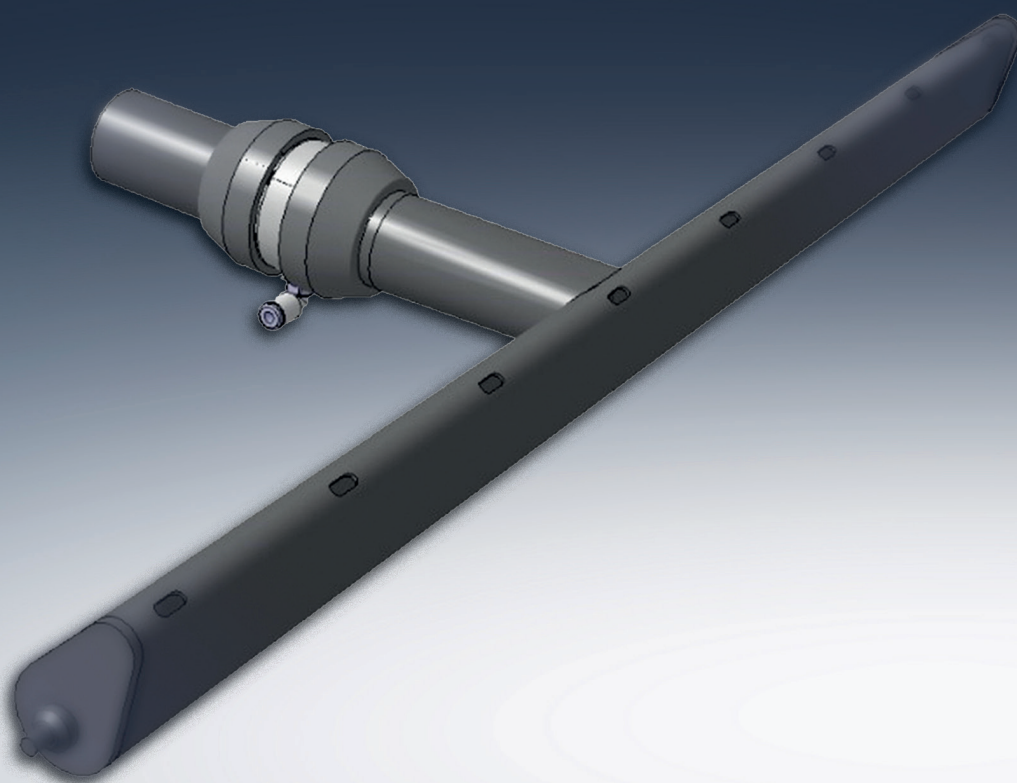


## ACTIVE FLUTE

Innovative system for partial suction



## **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

# ACTIVE FLUTE

## Innovative system for partial suction

In spinning frames, the suction system used for broken yarn is fundamental, however it requires high energy consumption, also because the system remains in operation even when yarn removal is not necessary.

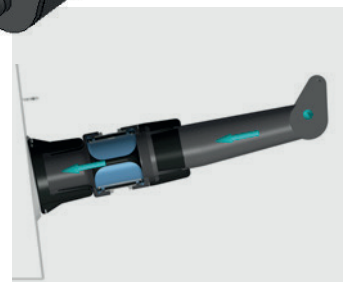
Moreover, as machines get longer, energy consumption increases exponentially, becoming one of the main energy cost items.

In order to reduce this cost item, Marzoli has introduced "Active Flute": an innovative system for partial suction, when and where required. Thanks to Marzoli R2F sensors, the active flute system installed on the suction flutes activates or interrupts the air flow by sending commands to the individual section of the machine where the broken sliver is detected. This allows a drastic reduction in energy consumption and improves the efficiency and performance of the entire spinning frame. The final result is energy savings of up to 70% of total suction consumption.

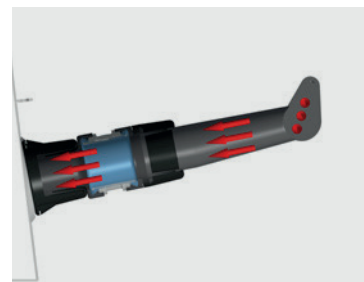
Furthermore, pairing with Marzoli R2F sensors, reduces the number of unnecessary operator steps between spinning frames and the average spindle downtime, thus increasing the production level of the machine in a simple, efficient and effective way. The active flute system is also designed with retrofitting in mind, allowing energy savings on previously installed Marzoli spinning frames.

### KEY POINTS

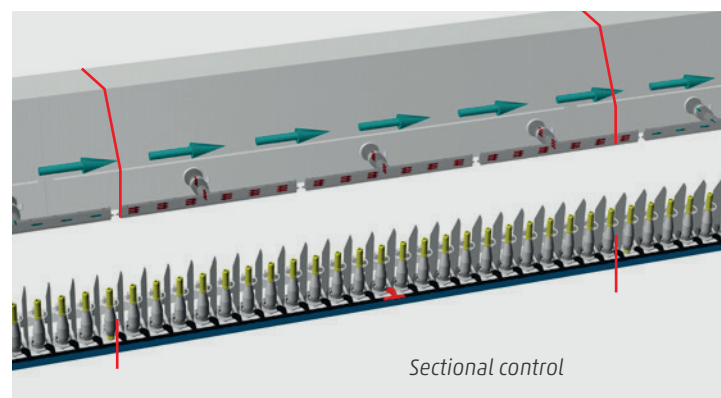
- REDUCTION OF UNECESSARY CONSUMPTION
- ENERGY SAVING: UP TO 70%
- AVAILABLE FOR RETROFITTING



- No broken yarn  
closed active flute:**
- Low air flow
  - Low air friction
  - High energy saving



- Broken yarn  
open active flute:**
- High air flow  
to blow fiber





A Camozzi Group Company

[marzoli.com](https://marzoli.com)

## Contacts

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