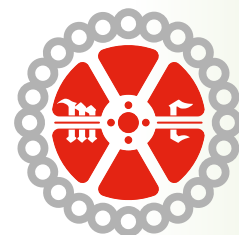




# KNIT APPAREL

Performance Fleece  
Light Knit  
Polar Fleece  
Shearing  
Brush Sueding



**MARIO CROSTA**  
SINCE 1925

# PERFORMANCE FLEECE



Double drum raising machine - POLARIS 24  
- POLARIS 28



POLARIS 24



**The most versatile double drum raising machine available on the market, suitable to process cotton, polyester and CVC fleeces, with amazing performances.**

The new configuration and geometry ensure greater efficiency and productivity to meet any client's production needs, conferring the right delicacy to deal with the lightest fabric, without losing its elasticity.

Model designed to maximize productivity and quality of work, with 24 or 28 cylinders, for matching with the highest standards of quality allowing the right productivity.

Equipped with advanced safety devices and pneumatic controls.

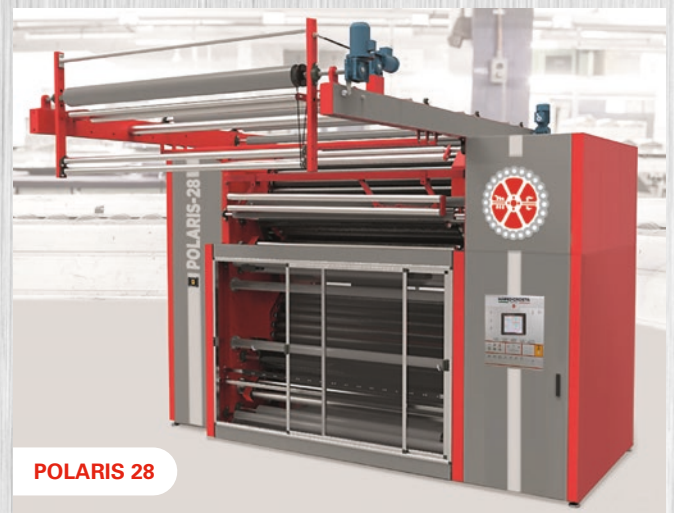
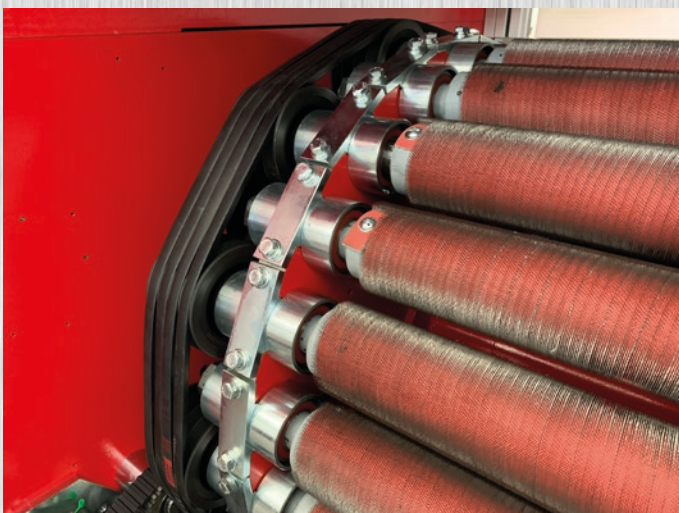
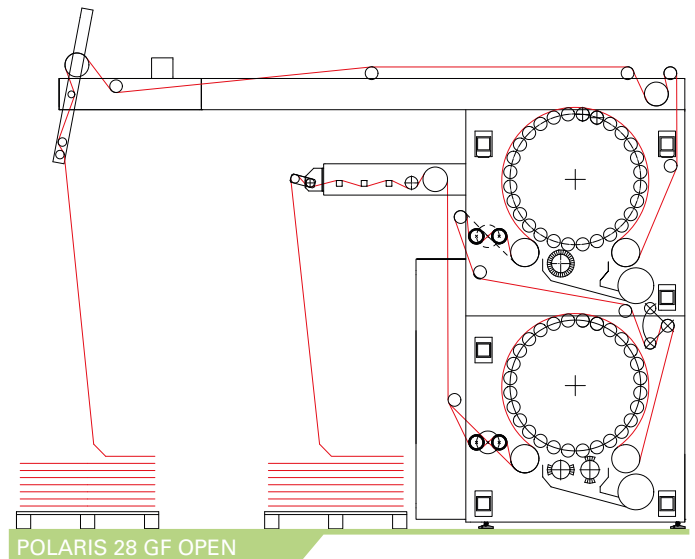
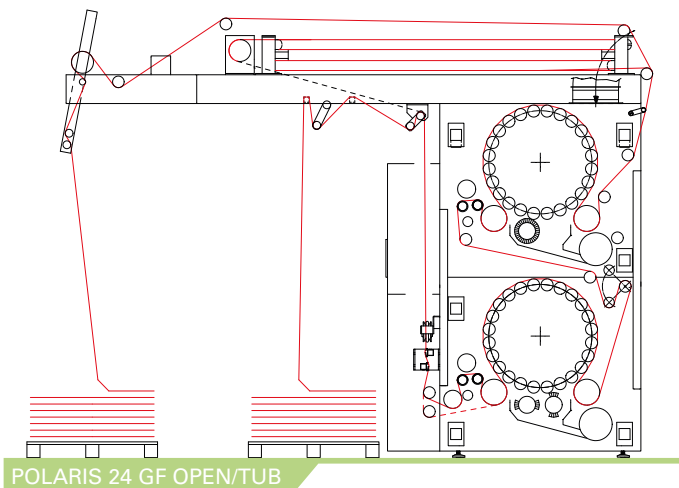
Our double drum raising machines are the perfect choice for textile professionals.

## PLUS

- » **Safety device** for cleaning brushes of the raising cylinders.
- » **Energy saving - ESS:** Thanks to this technology, Mario Crosta machines can operate efficiently and sustainably, providing significant energy saving.
- » **Pneumatic tension control** of raising cylinders driving belts.
- » **Center-side effect:** Our raising cylinders adopt an innovative solution to minimize cylinder deflection, limiting vibration. This ensures maximum precision while working.
- » **PLC:** reminds the operator when to perform maintenance operations, based on the machine's working hours. Performs constant monitoring of all safety controls, thus activating the emergency mode in case of failure, showing how to quickly identify the cause of the emergency and resolve it promptly.
- » **Touch-screen display** ensures an intuitive and operator-friendly user experience with its user-friendly graphical user interface and numerous advanced functions that simplify daily work.
- » **Digital Ready.**
- » An **Air conditioner** keeps the temperature and the moisture inside the control panel constant, thus ensuring a long duration of all electric and electronic components.

## Technical data

Installed power	<b>61 kW</b>
Effective energy consumption	<b>28 kWh</b>
Compressed air min. pressure	<b>5 bar</b>
Adjustable production speed	<b>10-40 m/min</b>
Drum speed	<b>70-120 rpm</b>
Impact on the environment compliant with all safety, EMC and noise European standards.	



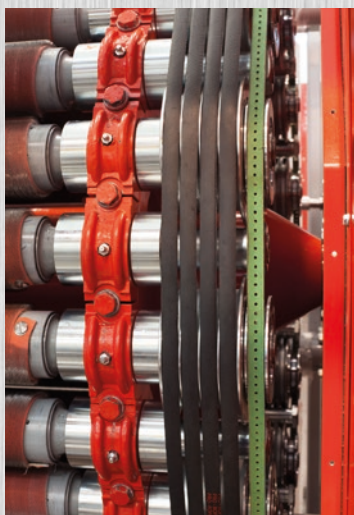
# LIGHT KNIT



Single drum raising machine - MC 10/24  
- MC 10/36



MC 10/24



**Expressly conceived for delicate fabrics, this machine can smoothly raise the surface of cotton, acrylic and polyester fabrics.**

The fabric reaches the right raising level without losing its elasticity.

Model available on 24 or 36 cylinders for matching with the highest standards of quality allowing the right productivity.

Equipped with state-of-the-art devices for optimal processing, such as:

Motor-driven 360° adjustable spreading devices and fixed spreading devices.

Automatic "Zero Point" adjustment and pneumatic tension control of cylinder driving belts.

Special fifth green Synchro belt which wraps around all cylinders to ensure a constant and continuous working cycle. This system avoids shocks to the cylinders and machine organs.

All raising parameters can be set both during machine standstill and working.

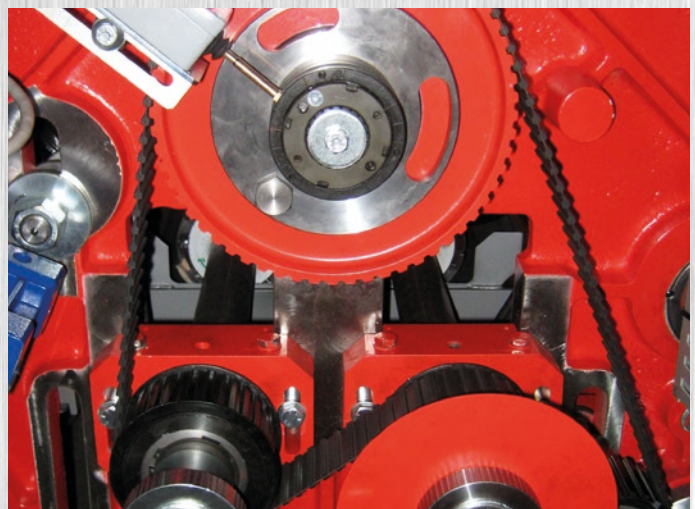
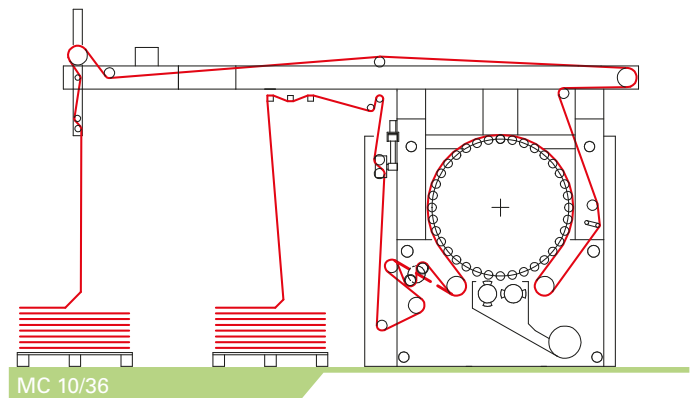
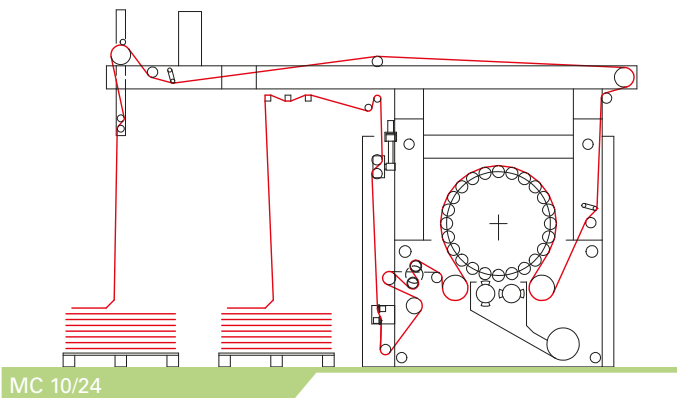
## PLUS

- » **Safety device** for cleaning brushes of the raising cylinders.
- » **Energy saving - ESS:** Thanks to this technology, Mario Crosta machines can operate efficiently and sustainably, providing significant energy saving.
- » **Pneumatic tension control** of raising cylinders driving belts.
- » **Center-side effect:** Our raising cylinders adopt an innovative solution to minimize cylinder deflection, limiting vibration. This ensures maximum precision while working.
- » **PLC:** reminds the operator when to perform maintenance operations, based on the machine's working hours. Performs constant monitoring of all safety controls, thus activating the emergency mode in case of failure, showing how to quickly identify the cause of the emergency and resolve it promptly.
- » **Touch-screen display** ensures an intuitive and operator-friendly user experience with its user-friendly graphical user interface and numerous advanced functions that simplify daily work.
- » **Digital Ready.**
- » An **Air conditioner** keeps the temperature and the moisture inside the control panel constant, thus ensuring a long duration of all electric and electronic components.

## Technical data

Installed power	<b>45 kW</b>
Effective energy consumption	<b>20 kWh</b>
Compressed air min. pressure	<b>5 bar</b>
Adjustable production speed	<b>10-40 m/min</b>
Drum speed	<b>70-140 rpm</b>

Impact on the environment compliant with all safety, EMC, and noise European standards.



# POLAR FLEECE



Single drum raising machine: - MC 10/20 FLEECE  
- MC 10/24 MULTI  
- MC 10/24 COMBING



MC 10/24 MULTI



**Polar Fleece technology has been expressly conceived by Mario Crosta to extract pile from the Polar fabrics, processing both sides of the fabric with ease. We reached to manage even the smallest details which make the difference!**

Model available on 20 or 24 cylinders for matching with the different kinds of polar fleece, different compositions, different weights.

Special Combing machine designed to perfectly comb and orientate the produced pile, before going to the shearing phase, for an even and uniform result.

Equipped with state-of-the-art devices for optimal processing, such as:

Devices for Polar processing already included as standard equipment.

Motor-driven 360° adjustable spreading devices and fixed spreading devices.

Automatic "Zero Point" adjustment and pneumatic tension control of cylinder driving belts.

Special fifth green Synchro belt which wraps around all cylinders to ensure a constant and continuous working cycle. This system avoids shocks to the cylinders and machine organs.

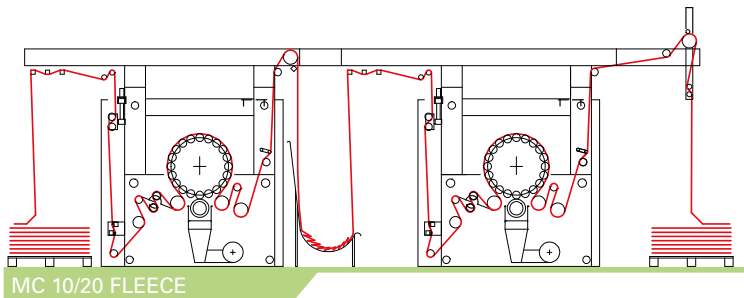
All raising parameters can be set both during machine standstill and working.

## PLUS

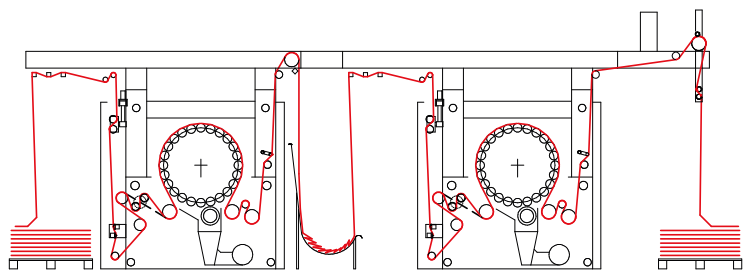
- » **Safety device** for cleaning brushes of the raising cylinders.
- » **Energy saving - ESS:** Thanks to this technology, Mario Crosta machines can operate efficiently and sustainably, providing significant energy saving.
- » **Pneumatic tension control** of raising cylinders driving belts.
- » **Center-side effect:** Our raising cylinders adopt an innovative solution to minimize cylinder deflection, limiting vibration. This ensures maximum precision while working.
- » **PLC:** reminds the operator when to perform maintenance operations, based on the machine's working hours. Performs constant monitoring of all safety controls, thus activating the emergency mode in case of failure, showing how to quickly identify the cause of the emergency and resolve it promptly.
- » **Touch-screen display** ensures an intuitive and operator-friendly user experience with its user-friendly graphical user interface and numerous advanced functions that simplify daily work.
- » **Digital Ready.**
- » An **Air conditioner** keeps the temperature and the moisture inside the control panel constant, thus ensuring a long duration of all electric and electronic components.

## Technical data

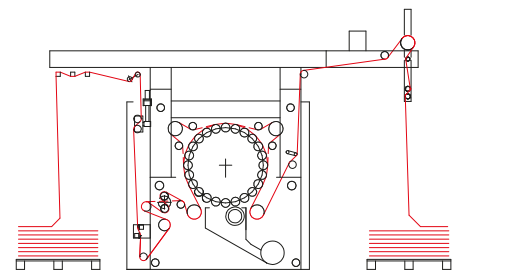
Installed power	<b>45 kW</b>
Effective energy consumption	<b>20 kWh</b>
Compressed air min. pressure	<b>5 bar</b>
Adjustable production speed	<b>10-40 m/min</b>
Drum speed	<b>70-140 rpm</b>
Impact on the environment compliant with all safety, EMC, and noise European standards.	



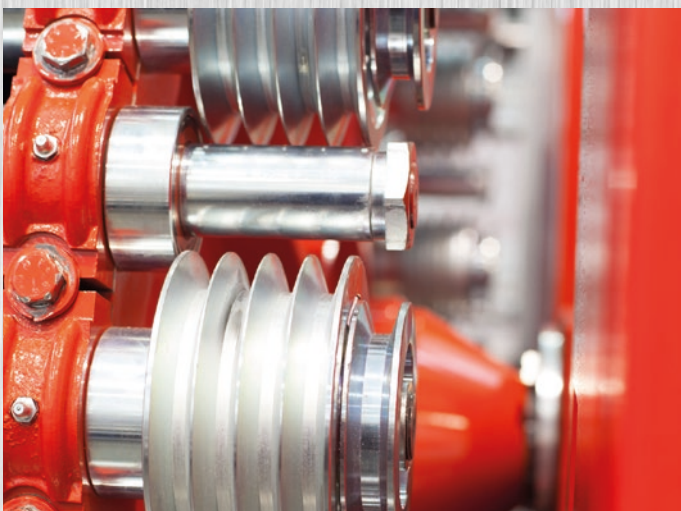
MC 10/20 FLEECE



MC 10/24 MULTI



MC 10/24 COMBING



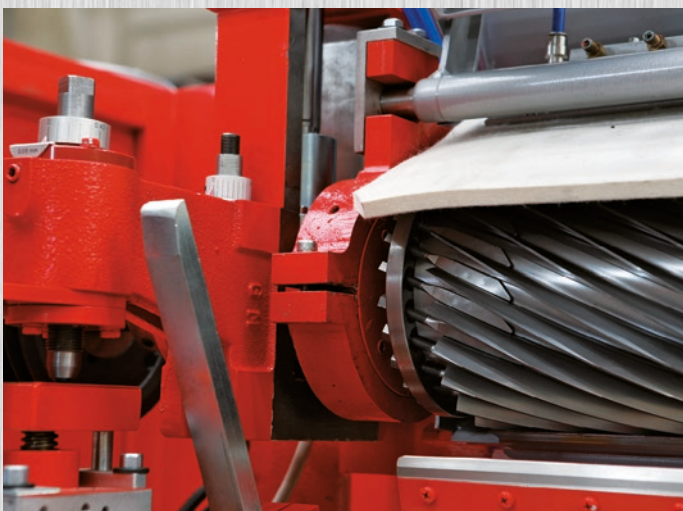
# SHEARING



Shearing machine: - TURBO  
- SPC/90 TRICOMBINED (Tiger - Polishing - Shearing)



TURBO



**The TURBO system, represents the ultimate release of shearing that makes the difference! Highest uniformity for the best results.**

The improvement of the core parts of the cutting group, with the use of our special anti-vibration system, allows the machine to significantly increase the production speed guaranteeing precision and uniformity in the cut, also with particularly difficult fabrics, as well as a considerable reduction in sharpening operations compared to machines not equipped with this system.

Additional devices developed with the aim to spread and keep the fabric well stretched out, like spreading rollers and the new selvedge uncurling device, grant the highest efficiency and the minimum loss of weight.

Availability of electrical heated polishing cylinder (pol rotor) for plush processing, acrylic knit or long pile products.



## PLUS

- » **Automatic backwards device** to move fabric backwards every time the machine stops.
- » **Energy saving - ESS:** Thanks to this technology, Mario Crosta machines can operate efficiently and sustainably, providing significant energy saving.
- » **Hoist and crane** for easy and quick replacement of the shearing group to ease maintenance interventions.
- » **Automatic seam jumping** through the special sensors provided for seams detection. This way, the machine will automatically reject the minimum fabric quantity astride of seams.
- » **Impulse running** of each device with independent driving system.
- » **PLC:** reminds the operator when to perform maintenance operations, based on the machine's working hours. Performs constant monitoring of all safety controls, thus activating the emergency mode in case of failure, showing how to quickly identify the cause of the emergency and resolve it promptly.
- » **Touch-screen display** ensures an intuitive and operator-friendly user experience with its user-friendly graphical user interface and numerous advanced functions that simplify daily work.
- » **Driving system** with inverter-controlled three-phase motors, as well as independent impulse controls for each device.
- » **Digital Ready.**
- » An **Air conditioner** keeps the temperature and the moisture inside the control panel constant, thus ensuring a long duration of all electric and electronic components.

## Technical data

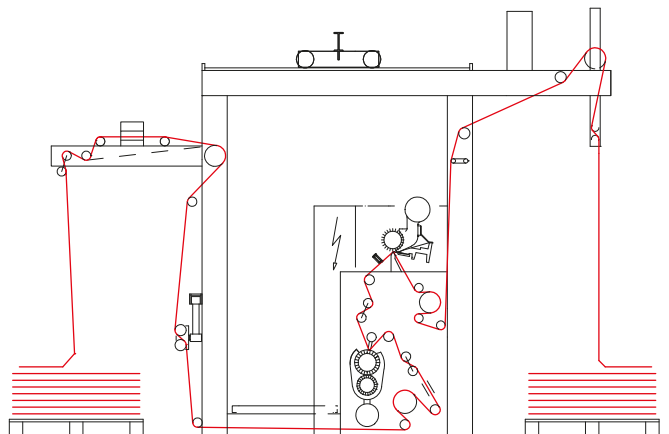
### TURBO

Installed power	<b>15 kW</b>
Effective energy consumption	<b>8 kWh</b>
Compressed air min. pressure	<b>5 bar</b>
Adjustable production speed	<b>5-40 m/min</b>
Cylinder speed	<b>600-1200 rpm</b>

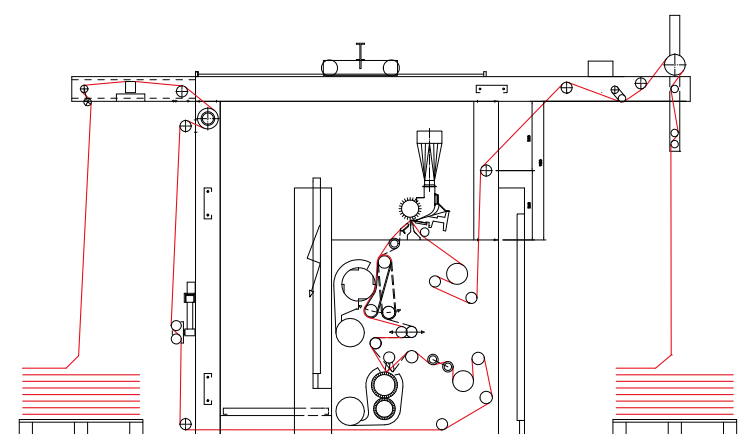
Impact on the environment compliant with all safety, EMC, and noise European standards.

### SPC/90

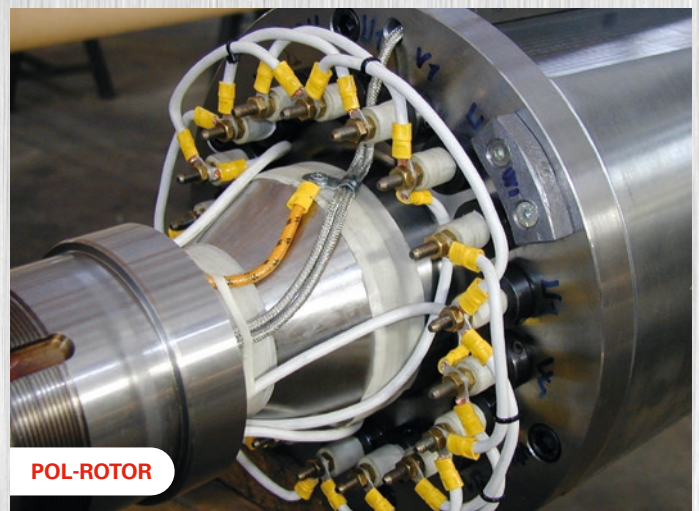
Installed power	<b>15 kW</b>
Effective energy consumption	<b>8 kWh</b>
Compressed air min. pressure	<b>5 bar</b>
Adjustable production speed	<b>5-40 m/min</b>
Pol-rotor power	<b>335 kW</b>



TURBO



SPC/90



POL-ROTOR

# BRUSH SUEDING



Brush sueding machine - LISA 4  
- TOUCH



**Latest release for Peach Skin Effect, in two versions:  
Vertical type LISA 4 KNIT (four brushes) for highest speeds.  
Drum type TOUCH (six brushes) no limit in sueding!**

The Lisa 4 Knit machine is equipped with 4 high diameter brushes, with independent motor and inverter, which allow to set the required effect according to the different type of fabric to be processed (cotton, cotton/PES or filament PES and elastane knit fabrics).

The double sector tension control gives the machine the lowest elongation of fabric.

The Touch machine is equipped with 6 brushes on a drum, which grant the highest versatility of use capable of treating the hardest and most difficult knit fabrics; it can be used in different ways to obtain complex and different effects.

Both models are available with carbon brush or ceramic brush, depending on the fabric to be processed.

## PLUS

- » **Selvedge uncurling devices.**
- » **Automatic seam jumping.**
- » **Energy saving - ESS:** Thanks to this technology, Mario Crosta machines can operate efficiently and sustainably, providing significant energy saving.
- » **Fabric spreading and centering unit.**
- » **Impulse running** of each device with independent driving system.
- » **PLC:** reminds the operator when to perform maintenance operations, based on the machine's working hours. Performs constant monitoring of all safety controls, thus activating the emergency mode in case of failure, showing how to quickly identify the cause of the emergency and resolve it promptly.
- » **Touch-screen display** ensures an intuitive and operator-friendly user experience with its user-friendly graphical user interface and numerous advanced functions that simplify daily work.
- » **Driving system** with inverter-controlled three-phase motors, as well as independent impulse controls for each device.
- » **Digital Ready.**
- » An **Air conditioner** keeps the temperature and the moisture inside the control panel constant, thus ensuring a long duration of all electric and electronic components.

## Technical data

### LISA 4

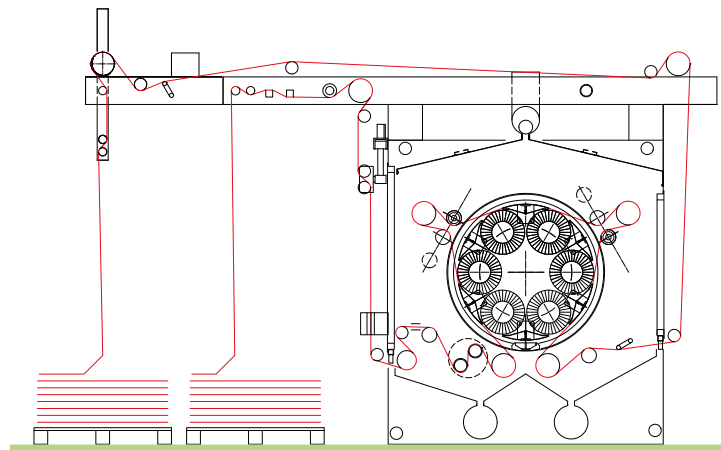
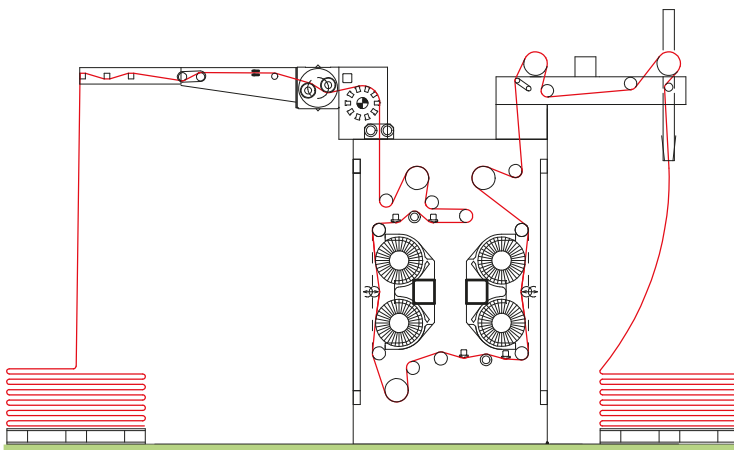
Installed power	<b>38 kW</b>
Effective energy consumption	<b>27 kWh</b>
Adjustable production speed	<b>5-40 m/min</b>
Brush rotation	<b>max 1500 rpm</b>

Impact on the environment compliant with all safety, EMC, and noise European standards.

### TOUCH

Installed power	<b>62 kW</b>
Effective energy consumption	<b>42 kWh</b>
Adjustable production speed	<b>5-40 m/min</b>
Brush rotation	<b>max 1000 rpm</b>

Impact on the environment compliant with all safety, EMC, and noise European standards.





## WORLDWIDE COVERAGE

With the largest global coverage of 70 countries, and the biggest amount of machines placed all over the world (more than 9.200 units), Mario Crosta is the oldest and biggest producer of textile face finishing company in the world.



## SUSTAINABLE TECHNOLOGIES

Mario Crosta machines are chosen by the best and biggest brands in the world to reach and maintain the highest level of quality, not forgetting the lowest production costs, achieved thanks to the up-to-date technology, and the low impact on the environment. Mario Crosta, in fact, for many years, has chosen to become a symbol of Green technology.



## OUR SERVICE

The after sale service has always been a goal Mario Crosta has always focused on. In addition to the headquarter division in Italy, which manages and organizes the requests from all over the world, a network of service centers throughout the globe ensures a fast and efficient service wherever customers are.



## OUR MISSION

Mario Crosta Group, in business since 1925, aims at meeting every customer's demand in textile finishing with competence, timeliness and professionalism, through a highly motivated and involved team and a constant attention to research and development. We offer innovative high value-added solutions to meet any worldwide market's growing technological needs.

### WOOL APPAREL

Raising  
Shearing  
Teasel  
Wet Brushing  
Decatizing  
Polishing

### WOVEN APPAREL

Raising  
Shearing  
Brush Sueding  
Diamond Emery

### KNIT APPAREL

Performance Fleece  
Light Knit  
Polar Fleece  
Shearing  
Brush Sueding

### HOME TEXTILE

Raising  
Velvet Line  
Shearing  
Sueding

**MARIO CROSTA**

SINCE 1925



**Mario Crosta s.r.l.**

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