TAURUS 2020

FPP2/FPP3 MASKS PRODUCTION LINE

PACKAGING GROUP

3000 Masks/hour **48.000 Masks/day**

Why choose to buy the Taurus mask making machine?

The demand for protective masks suffered a sudden and uncontrolled peak due to the **COVID-19 emergency**. This machine is the **solution to current and future demands** both to boost European production by offering the right technology to face an intense production process.
The numbers of requests for masks are destined to grow even after the emergency, the virus will radically change the uses of the population and will be a warning for the European health care that will have to adapt to provide more and more PPE to its health care workers.
There is an average monthly need, for the Italian population, of **90 million pieces**, while for the Lombard health care alone it is estimated a **daily consumption of 1.1 million masks**.

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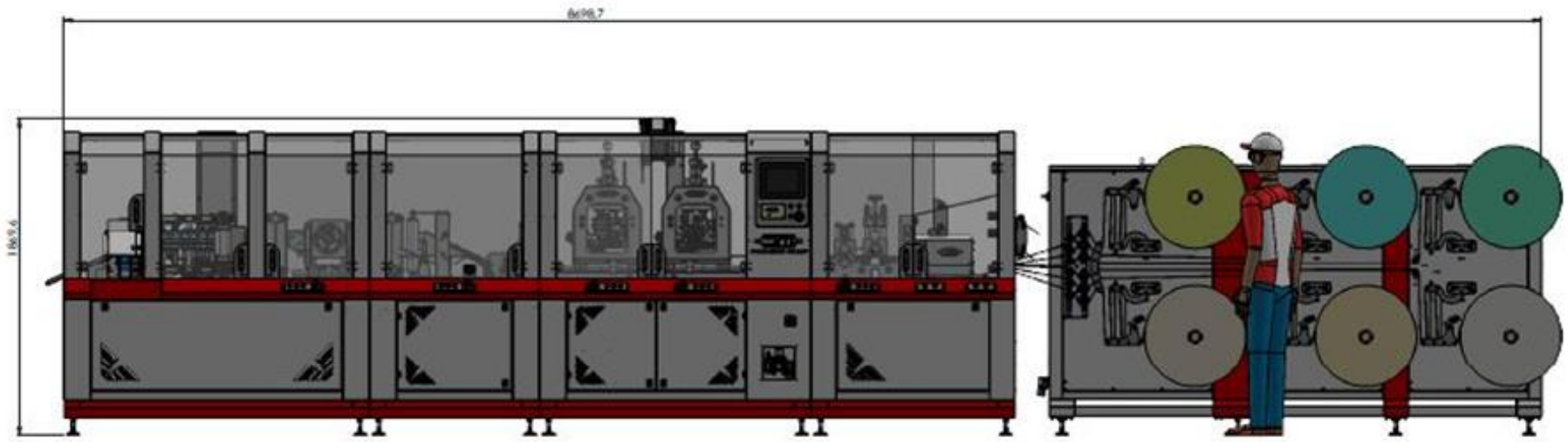
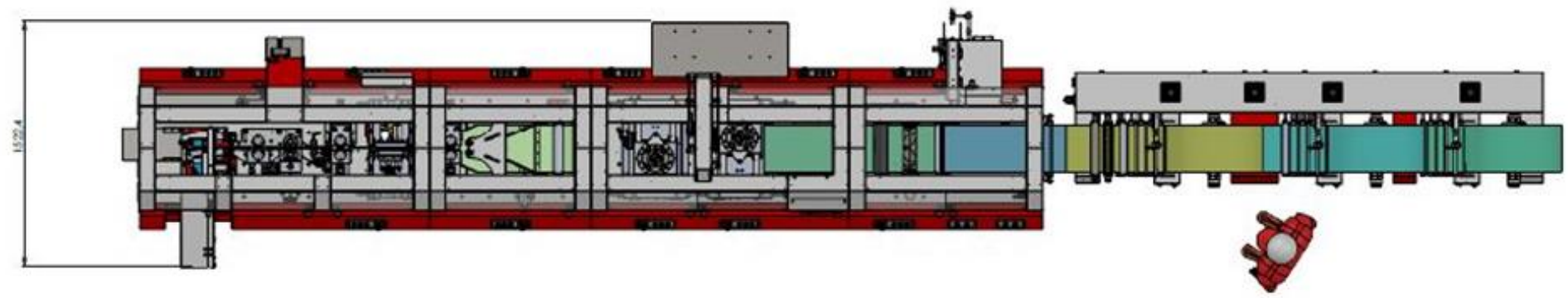
PLANT RENDERING





ZONE	DESCRIPTION
A	Storage area for the reels of non-woven fabric
B	Primary die-cutting area + welding of the layers
C	Area for the insert of the filter valve and welding area
D	Area for the welding of the right and left string – with ultrasonic system
E	Area for materials folding
F	Second die-cutting with trimming of the masks + waste of extra material

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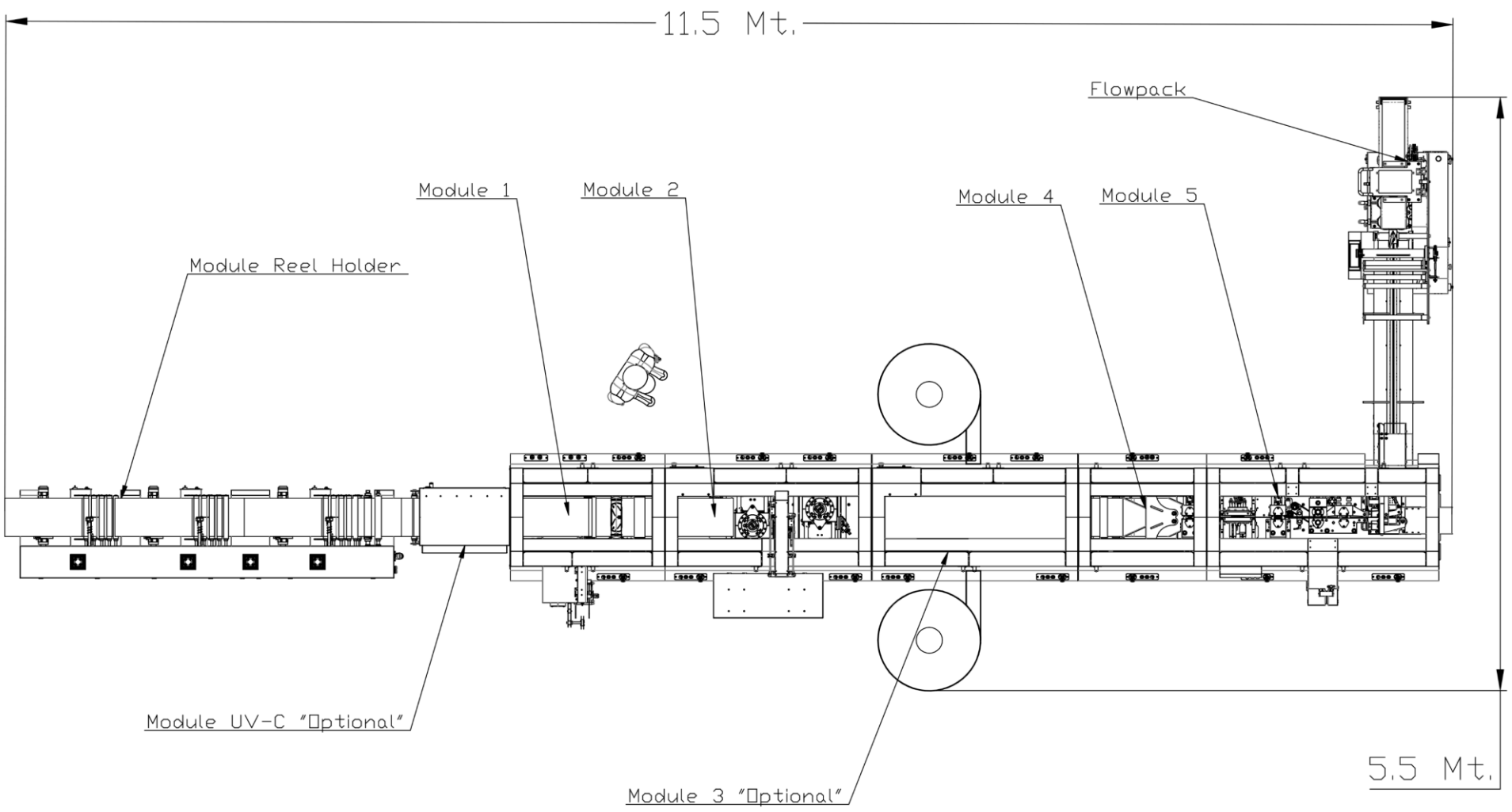
TECHNICAL SCHEME OF THE PRODUCTION PLANT MASKS FPP2/FPP3 WITH VALVE INSERTION



PACKAGING GROUP		Designed by D.Paesante
		Date 14/10/20 — Peso / Weight
		Foglio / Sheet 1/1 — Scala / Scale --
Descrizione / Description LAYOUT Taurus FFP2-3		Tolleranze generali UNI ISO 2768 - mk
Numero di disegno / Drawing number L-20-019		

Layout preliminare; le dimensioni finali saranno calcolate in base alle dimensioni reali del prodotto

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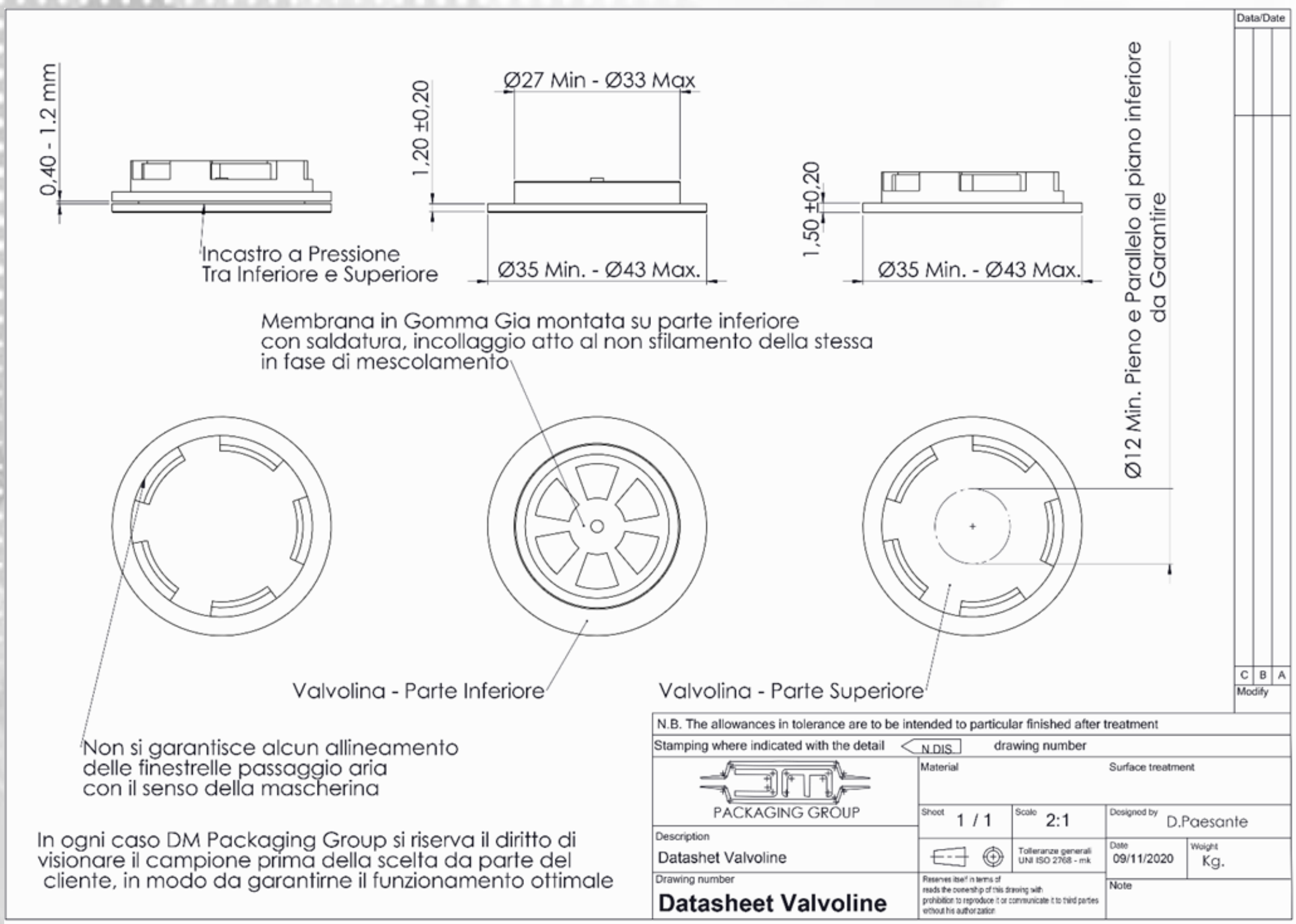
TECHNICAL DETAIL OF THE VALVE



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Plus and technical specifications

Automatic Connection with Flowpack packaging machine
Automatic transfer of the masks to the flowpack packaging machine, so removing the operator's handling for the transfer from the production plant to the packaging machine.
Sanitization module with UVC rays
Sanitization of fabrics during the production process

- Machine control and management through PLC + HMI Touch Screen 10" panel
- Approximate plant dimensions: L10,000 X D1,500 X H 2,200mm
- Ultrasonic system welders - Ultrasonic power: primary welding 2 Kw, welding Laces 1 Kw/cad, frontal welding 2 Kw
- Axes management through nr.7 Brushless servomotors by Schneider Electric brand.
- Material unwinding system by means of motorized reel-holder with 6 AC motors and managed by inverter
- Rotary laces welding system, managed by two Stepper motors with digital encoder and digital drive management system
- Production speed: about 3,000 masks/hour
- Plant Weight: about 2,800 kg
- Automatic parts counting function
- Possibility to integrate in the line automatic filter insertion (optional)
- System complies with CE regulations.
- Contact zones stainless steel masks
- Electrical panel in compliance with standards, with safety modules for the management of guards
- Operator safety protections - in compliance with CE regulations
- Possibility to integrate automatic single mask packaging system through flowpack (optional)
- Possibility to integrate UVC sanitizing system of the fabrics, through UVC lamps (optional)

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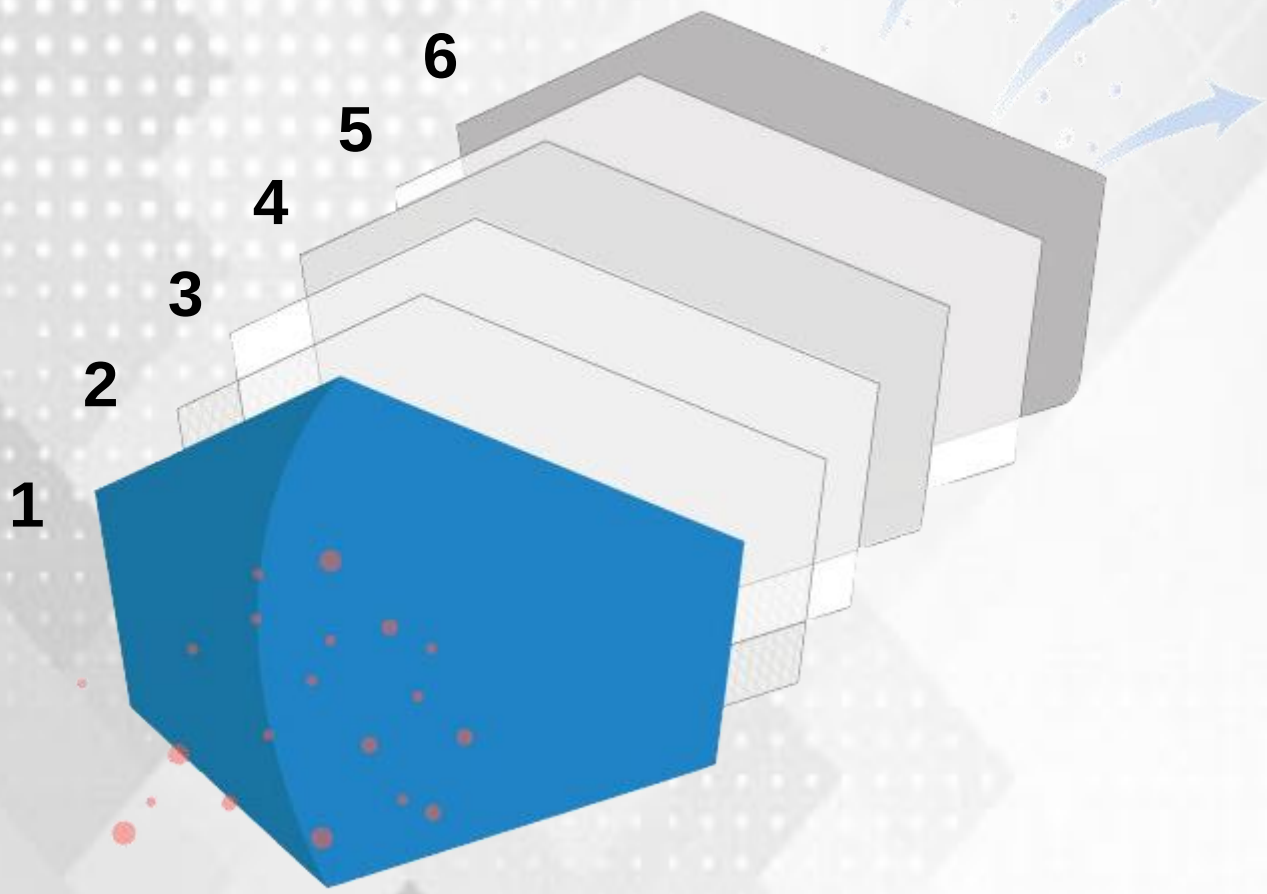
The masks and materials

Up to six layers of fabric in full compliance with the European standard UNI 149:2009.
The UNI 149:2009 regulation does not provide a specification of the materials to be used. However, the finished product must comply with the characteristics required in the standard, and must be suitable to pass the tests reported in the standard. The information material can be downloaded free of charge after registration on the portal: UNI 149:2009.



Our machine can weld up to 6 layers of fabric.

1-**TNT layer** - PP non-woven fabric.

2-**Melt-Blown fabric layer** - an extremely soft and elastic fabric obtained from extruded polymer filaments.

3-Filtering fabric layer.

4-Plain cotton layer.

5-Activated carbon layer.

6-External TNT layer.

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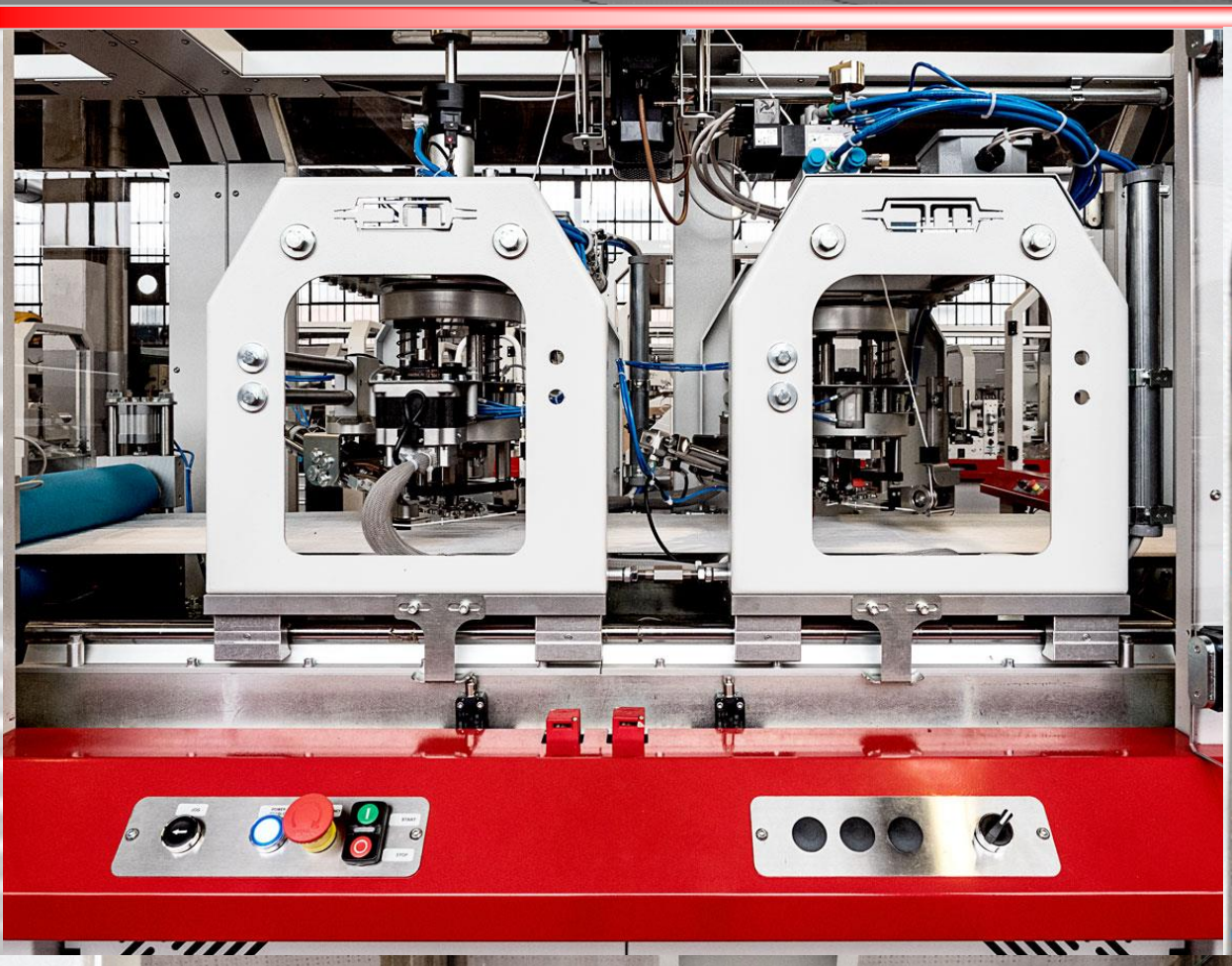

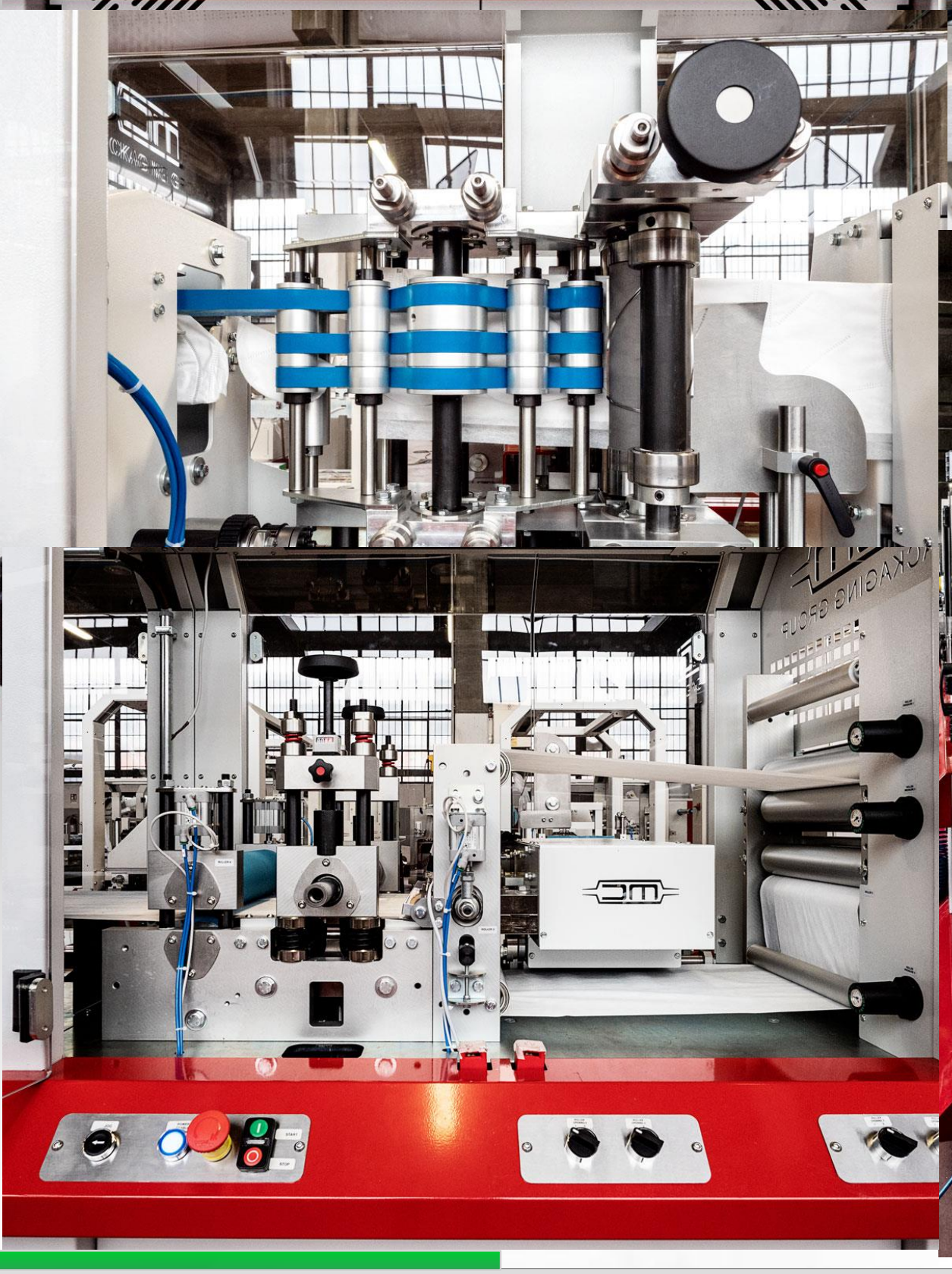

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