



Plus

BIOMEDICALS

Think Human, Think For Human

CATALOGUE 2021



Simone Mora
Born in 1994
University of Padua
Biomedical engineering

Francesco Vavassori
Born in 1994
University of Brescia
Architectural Engineering



+ HISTORY

The story of Plus Biomedicals starts with a dream: Simone and Francesco, the co-founders, want to create products that are able to improve and make everyday life easier for disabled people, elderly and bedridden.

In 2017 Simone and Francesco took their first steps in the biomedical sector and in 2018 they launched the first product: Avant, the portable sink for wheelchair users. In a very short time the company grew by expanding its range of portable sinks and launching new products, such as Cwash®, the first device in the world for automatic oral care.

The pandemic period gave the company a new challenge: use its biomedical know-how and background to create a product that can help Italy. They decided to build a factory dedicated to the production of surgical masks type II and type IIR completely Made in Italy.

The constant effort of Research and Development, flagship of the company, allows Plus Biomedicals to establish itself as a young innovative start-up capable of designing high quality medical devices. Our motto is Think Human, Think For Human: this is the philosophy that distinguishes us and underlines the dedication we put into studying and creating products that are able to improve people's life and well-being.

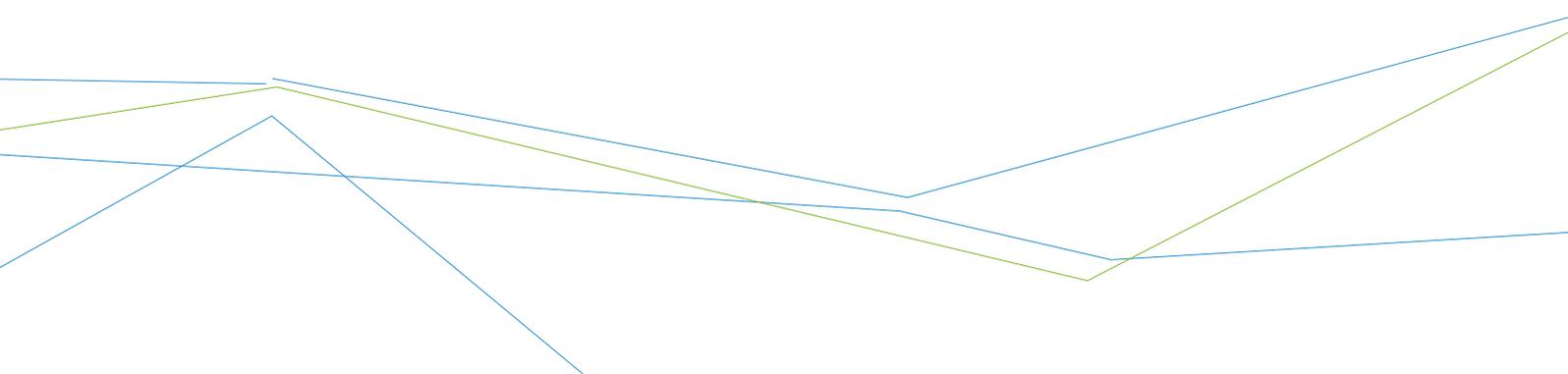


SINK: BEYOND THE USEFULNESS > ≡ —

The portable sinks were the first products that our Research and Development department created and they gave birth of the company and our pay off, **Think Human, Think For Human.**

Born from the collaboration of Simone and Francesco, founders of Plus Biomedicals, with an association dedicated to the care of cancer patients, the three types of sink respond to the need to wash the hair of bedridden people, wheelchairs users or with reduced mobility. A natural and daily action, but in particular conditions it becomes difficult to carry out and it creates uncomfortable situations.

Our portable sinks have been designed to give comfort to those who use them and are easy to be used for those who carry out the treatment, significantly reducing the time of work and workload.



SINK AVANT

JOINTED SINK FOR WHEELCHAIRS

Product name:

Sink AVANT

Made in:

Italy

Total weight:

3 kg

Product description:

AVANT is the most advanced portable sink for wheelchair users. Thanks to an articulated and ergonomic arm it can cover all positions taken by the user and it helps people with disabilities or mobility problems to have the best care of their hair.

It is designed and produced in Italy by a team of biomedical engineers and it's made with resistant and compatible materials. AVANT is comfortable for the user and easy to use for those who carry out the treatment, reducing the time and people to be employed.



EAN code:

8 052282 620010

Size:

200 cm (exhaust pipe)

91 cm x 71 cm (close)

23 cm (articulated arm length)

40 cm (max extension in depth)

108 cm x 143 cm (max operating height)

Technical Data:

● Resistant ● Adjustable ● Ergonomic ● Portable

- > System with three levels for manual adjustment in height and in grade-extension
- > Removable plastic base composed of 5 feet with non-slip rubber pads
- > Plastic sink with silicone gel neck rest antibacterial, washable and removable
- > Sanitary suction cup with velcro strap to prevent unwanted movements of the tube

SINK ESPIN

ADJUSTABLE SINK ATTACHED DIRECTLY TO THE WHEELCHAIR

Product name:

sink ESPIN

Made in:

Italy

Total weight:

3 kg

Product description:

ESPIN is the only sink that attaches directly to the wheelchair. Thanks to its patented system with quick couplings and central joint it easily attaches to every wheelchair and covers all positions. It is comfortable for the patient and easy to use for those who carry out the treatment, reducing the time and people to be employed.



EAN code:

8 052282 620041

Size:

52 cm (maximum extension)

37 cm (maximum compression)

17 cm (extension articulated arm)

50x45x30 cm (overall dimensions)

Technical Data:

- Adjustable
- Ergonomic
- Quick unhook
- Universal

≡ Sink with adjustable telescopic support with quick couplings

≡ Suitable for wheelchairs

≡ Equipped With a built-in neck cushion, in silicone gel, exhaust pipe and anti-slip suction cup

SINK ORIZON

SINK FOR BEDRIDDEN USERS

Product name:

Sink ORIZON

Made in:

Italy

Product description:

ORIZON is the most advanced portable sink for bedridden. It is designed by a team of biomedical engineers and produced in Italy with innovative and strong materials. ORIZON is comfortable for the end user and easy to use for those who carry out the treatment. The material is soft, ergonomic, water-repellent and easy to clean.

Colors:

Possibility of exclusive request

	RAL 9011
	NCS 3560-Y90R
	NCS 3050-R80B
	NCS 2570-G30Y

EAN code:

	8 052282 620027
	8 052282 620270
	8 052282 620263
	8 052282 620287

Size:

28x32x15 cm

Total weight:

0,5 kg



Technical Data:

- Ergonomic
- Ready to use
- Resistant
- Water-repellent

- Soft and ergonomic sink in polyurethane
- Elastic and resistant, compressible and strong material
- Suitable for bedridden patients
- With built-in polyurethane neck cushion
- Water bag 2L capacity with emptying valve, equipped with support hook for beds
- Exhaust pipe with quick coupling, pressure

≡ SURGICAL MASKS: THE HEALTH OF ITALY IS THE MOST IMPORTANT THING

During the Covid-19 emergency we realized that we could not stay unresponsive and we wanted to help.

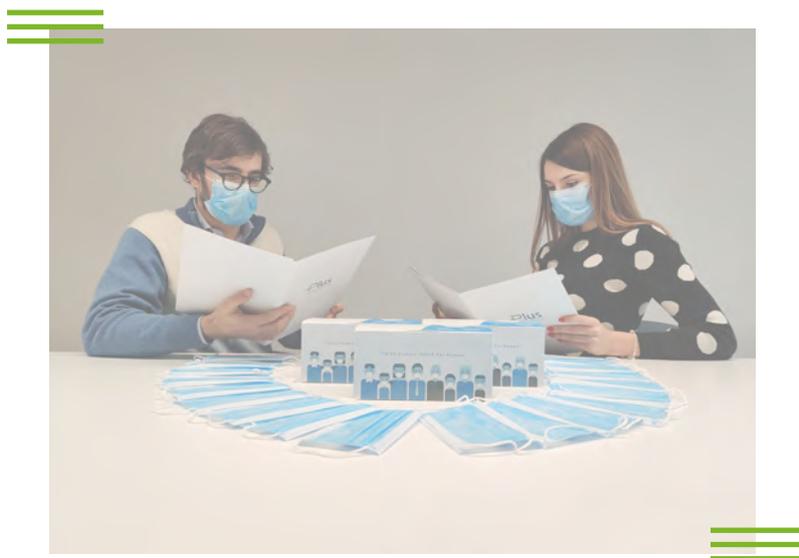
For this reason, our R&D department has studied a surgical mask IIR Made in Italy with high filtering power, high quality and comfortable for those who wear it every day.

In order to offer a product of the highest quality and that differs from those already on the market we have chosen to create a new factory that deals mainly the production of masks, adopting a grey room production system that ensures a controlled environment in terms of temperature and bacterial charge, both in the production phase and in the pre-production phase of the mask.

The decontaminated environment is essential to obtain high levels of biocompatibility, higher than usual standards, obtaining completely hypoallergenic products.

From January 2021 we decided to complete the range with surgical masks type II.

The achievement of the ISO 13485:2016 certification and the CE certification has been an important milestone for us that has rewarded our effort to research and realize a product with high performance.



DISPOSABLE SURGICAL MASK TYPE II

Product name:

Disposable mask type II 077

Registration number as a medical device:

2033618 (see more on the website of the Ministry of Health: www.salute.gov.it)

Origin:

the product is 100% Made in Italy and follows all traceability regulations.

Product description:

Triple layer surgical mask with filtering capacity and characteristics in accordance with ISO 14683:2019. Internal layer and hypoallergenic filter made of Spunbond 30 g/m², world side layer made of TNT Spunbond 25gr/m², intermediate layer in TNT meltblown 25g/m².

**EAN code:**

8 052282 620089

Dimensions:

100x180 mm available in packs of 50 pcs.

COMPOSITION:

Inner layer	Spunbond Polypropylene 30 g/m ² (TNT)
Middle layer	Meltblown Polypropylene 25 g/m ² (TNT)
World side	Spunbond Polypropylene 25 g/m ² (TNT)
Elastic	Heat-sealable elastic band 70% nylon, 30% elastomer, lattelx free, Diameter: 2,50mm, elongation 250%
Lug	Lug twistband Fe/pp Food contact grade 1x0,58mm

DISPOSABLE SURGICAL MASK TYPE IIR

Product name:

Disposable mask 007 type IIR

Registration number as a medical device:

1985370 (see more on the website of the Ministry of Health: www.salute.gov.it)

Origin:

the product is 100% made in Italy and follows all traceability regulations

Product description:

Triple layer surgical mask with filtering capacity and characteristics in accordance with ISO 14683:2019. Internal layer and hypoallergenic filter made of 35 g/m² SMS, layer world side made of TNT Spunbond 30g/m² with water-repellent capacity and with successful splash test.

**EAN code:**

8052282620072

Dimensions:

100x180 mm available in packs of 50 pcs.

COMPOSITION:

Inner layer	SMS AXAR M 35dd/m ² (TNT)
Intermediate layer	SMS AXAR M 35 gr/m ² (TNT)
World side	SP30FB 30 gr/m ² (TNT)
Elastic	Heat-sealable elastic 90% polyester, 10% lycra, lattelx free Diameter: 2,00mm, elongation 150%
Lug	Lug twistband Fe/pp Food contact grade 1x0,58mm



TYPE II

TYPE IIR

Made in Italy



Bacterial filtration efficiency (BFE)



Differential pressure (Pa/cm²)



Splash resistance pressure (kPa)



CWASH®: A NEW ERA FOR DENTAL CARE

The idea of Cwash® was born at the end of 2018 thanks to the collaboration between the co-founders of Plus Biomedicals and a team of dentistry experts. The aim was simple: to find a device to brush teeth several times a day to better preserve the health of the oral cavity.

However, the chaotic life often goes to the detriment of this simple practice: it is difficult to find time to brush teeth when you are in the office, traveling or you do not have water, toothpaste and toothbrush available.

The creation of Cwash® involved a R&D team composed of four engineers with heterogeneous backgrounds who had the ability to create the first device in the world able to ensure right dental care without the use of water, toothbrush or toothpaste.

Cwash® is a product for everyone: for adults who do not have time to treat their dental hygiene accurately, for bringing children to the care of oral hygiene and for those who due to poor or reduced mobility, such as elderly, bedridden or disabled, cannot or have difficulty brushing teeth regularly.



Product name:

Cwash®

Origins:

Made in Italy



Product description:

Cwash® is an innovative device: it is the first gradual release device for dental care that does not require the use of water or toothpaste. It can be used anywhere and saves time: it is small, easy to carry thanks to the portable case and in just 30 seconds allows a complete cleaning. Moreover, by connecting in Bluetooth mode to your phone, it remembers when you need to brush your teeth and it records reports on how and for how long you take care of your teeth.



Technical data:

-  **Eco-friendly:** The bite is made with a natural polymer with gradual release
-  **Bluetooth:** With a bluetooth technology can be connected to your smartphone
-  **30 sec for cleaning:** Fast and efficient cleaning
-  **App statistics:** App for monitoring and statistics
-  **Replaceable:** Bite with 100 cycles, available refills
-  **Various size:** 2 size available, young and adult
-  **Easy to carry:** Safe and clean portable case
-  **Long-lasting battery:** High performance battery



Keep your Cwash® device organized.

By placing the bite in the case, in its section, the UV light is switched on automatically that starts the cycle in time to defeat the bacteria and sterilize as much as possible the sensitive parts.

The status LED, placed outside the case, provides feedback when the device is fully charged or unloaded.

The bite holder is easily removable and sanitizable.



PORTABLE CASE

Take your Cwash® wherever you want: it is equipped with a practical and efficient portable case that keeps the device in a safe and clean place.





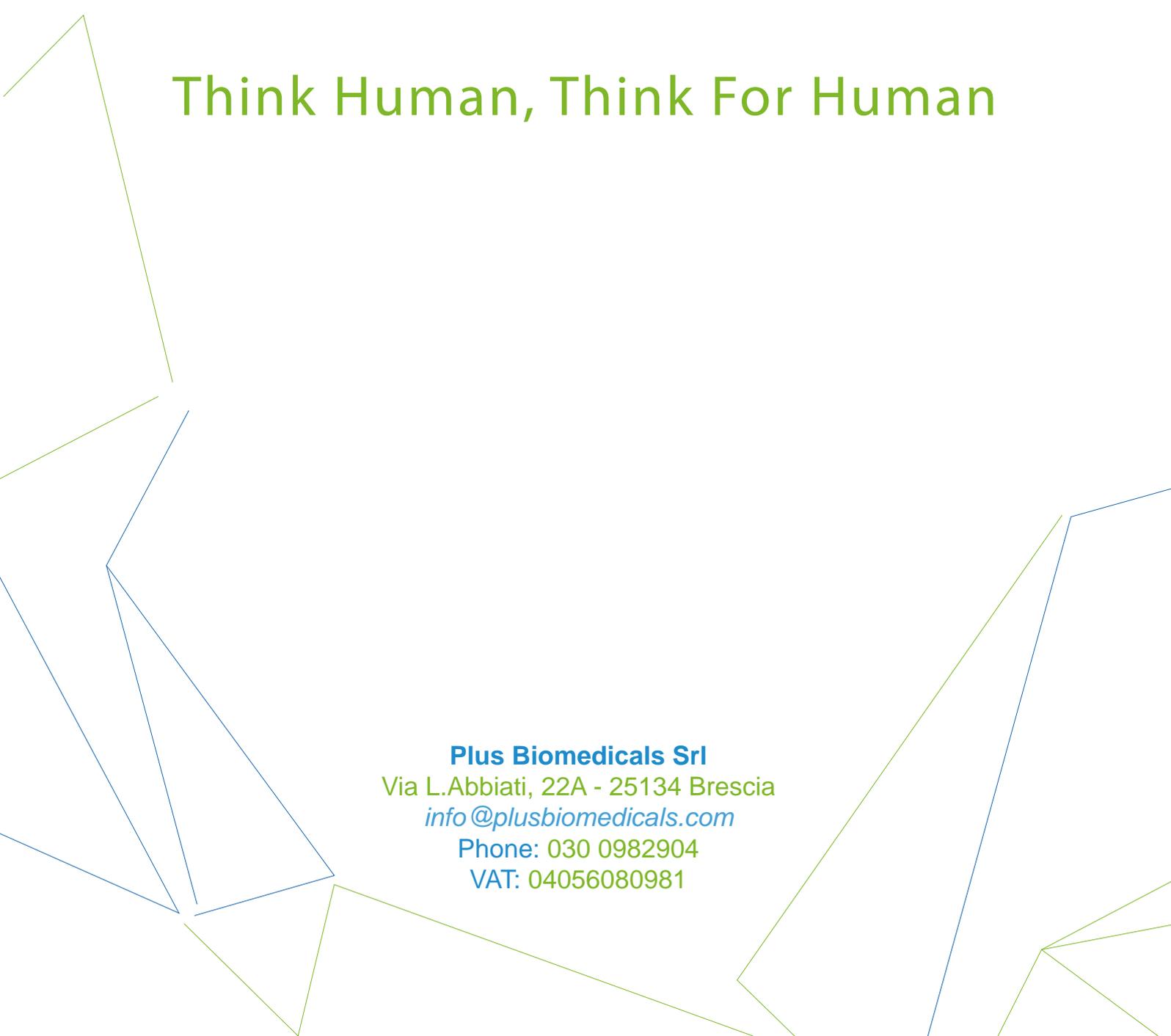
headquarters:

Via Luigi Abbiati 22/A Brescia 25134

Production site:

Via G.Galilei 15/C trav III
San Zeno Naviglio (Bs) 25010



The background features abstract, overlapping geometric shapes formed by thin lines in shades of green and blue. These lines create a sense of depth and movement, framing the central text.

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