



COMPANY	page	4
FACTORIES IN ITALY	page	6
CERTIFICATIONS	page	9
PURE HEALTH SYSTEM	page	10
"LUXOR" SPOILER	page	12
"DOMINO" PROJECT	page	14
"QUADRA" PROJECT	page	20
AMBULANCES	page	24
EMERGENCY MEDICAL SERVICE VEHICLES	page	38
SOCIAL TRANSPORT	page	40
CIVIL PROTECTION	page	42
EXCLUSIVE ACCESSORIES	page	44
BRANCHES	page	46



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THE COMPANY

Orion is an ISO 9001, ISO 14001, SA8000 and OHSAS 18001 certified company which specialises in the fitting-out of specialised emergency response and social/health care transport vehicles. The current manufacturing site covers a total area of approximately 6,000 square metres. The modern factory, inaugurated in 2016, was designed to maximise production efficiency while dedicating the utmost focus on workplace ergonomics and workers' health and safety. The building is completely self-sufficient in terms of energy, with minimal consumption and reduced CO₂ emissions, thanks to a 90 KW photovoltaic system and LED lighting. The current production output is approximately 50 vehicles per month, surpassing 350 ambulances annually while the other vehicles, which number approximately 200, are divided between emergency medical service vehicles, social/health care transport, civil protection vehicles and specialised vehicles. From the outset, the company has sought to develop solutions based on its Customers' ideas and needs. Orion creates projects, experiments with technical solutions and offers a capillary sales service throughout the country. The company is present throughout Italy with its 4 fitting-out and sales locations, more than 50 specialised technical assistance centres and its on-site assistance service. Orion is synonymous with durable high quality and continuous research aimed at improving safety and its easy-to-use fittings.

MISSION

Ambulances are both transport vehicles used under difficult driving conditions and working environments. For this reason, Orion researches technical solutions to maintain optimum performance in terms of safety, functionality and ergonomics that guarantee ever increasing **prevention and protection criteria to safeguard professionals and patients, without neglecting design and aesthetics**. Innovating at the intersection of ideas, promoting dialogue between sector operators and multiple professionals is undoubtedly the best way to generate revolutionary ideas, ideas that are capable of redefining the safety of the people on board Orion's emergency service vehicles. Orion's ideas are able to deliver long-lasting value, where quality becomes the excellence for emergency response and leads the company to its permanent position at the front-line, like its customers. Orion was among the first European companies to obtain and keep up-to-date the EN 1789 certification on ambulances (version 2010, version 2014).

HISTORY

Orion was founded in 1997 with the ambitious aim to establish a foothold in the Emergency Medical Service Vehicle market, which already encompassed a large number of fitters, where it quickly became a Nationwide Leader. The revolutionary idea behind the design of the first Ambulance was to offer a safe and highly customisable vehicle without requiring the use of metal profiles, using a material that has never before been used in the sector: boatyard resin; a durable, easy to clean and wear-resistant material with an excellent shock absorption capacity. After almost 2 years of research, experimentation and prototyping, the first fully modular fibreglass Ambulance was created. Orion decided to name it "Domino System," inspired by the famous tile game which, by following a few simple rules, allows players to create complex shapes. Right from the start, Orion sought to stand out from the competition; Domino needed to be recognisable by all sector operators at a glance. Therefore, the first rear spoiler was designed and constructed with upside-down flashing lights, an eye-catching detail. So, when the Calenzano premises was opened in 1999, the definition "the ambulance with the downward-facing flashing lights" that unequivocally identifies Orion became common knowledge. Domino has exceeded the expectations of many Customers who have confirmed their trust towards Orion over the years. The high quality of the components, the rigorous testing of manufacturing processes and the optimal level of customisation allow Orion to respond to the expectations of its most demanding Customers in a more than satisfactory way. Nowadays, Orion installations are available on most vehicles from the major car manufacturers available on the European market.

Fiat, Mercedes and Renault have recognised Orion as an official fitter-partner.







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F. STATEMENT OF CONFORMITY

Roberto Alberoti Impector



ORION SRL

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ORION SRL

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Class Allestimento Veicoli Srl is a young company that was founded in 2014, purchased by ORION in 2018, with the idea of creating and developing a line of ambulances, emergency service cars and disabled transport vehicles in the Veneto region.

The Class design philosophy is based on three fundamental concepts; simplicity, reliability and quality. Its passion for the job its specialised craftsmanship allow the company to offer truly "made-to-measure" products. With headquarters in San Pietro Di Feletto (TV) at the gates of the Prosecco hills, the company boasts a manufacturing site measuring approximately 1100 square metres where its highly skilled staff work to understand and best meet the needs of the customer.









Polaris is a leading company in Sardinia in the fitting-out of **ambulances**. Polaris stands out as a point of reference in the health sector, characterised by a great relational capacity to manage the different needs of its customers. Collaborating with referenced technological partners allows Polaris vehicles to use the **most** advanced technological solutions. Departing from the consolidated production standards inherited from **ORION**, the company has been able to create customised vehicles that satisfy every requirement. Prestigious organisations on the Sardinian health care scene have already chosen the **Polaris** philosophy thanks to its proven competence and professionalism. **Polaris** is also very attentive to the demands of the disabled persons sector, for which it conceives special fittings such as acceleration, brake and assisted clutch devices and the company possesses the know-how and experience necessary for the mobility of tetraplegics. Thanks to the great amount of experience gained over the years with the fitting-out of ambulances and vehicles for disabled persons, **Polaris** is able to meet a wide demand for special vehicles such as mobile offices, municipal vehicles, advanced emergency response vehicles and much more.

ORION Sale (AL)

The Sale (Alessandria) factory, a few kilometres from Tortona, has become **the reference point for customers in Liguria, Lombardy and Piedmont**.

Covering an area measuring approximately 2,000 square metres, it is dedicated to the service and production of vehicles for

Italian and foreign commissions. In the large workshop, the highly qualified staff is ready to meet all requirements related to fittings, electrical systems, air conditioning systems, protective inspections, platforms for disabled persons and light and sound systems on all types of ambulances. This manufacturing site flanks the already consolidated mobile workshop services and the modern factory in Calenzano, **Orion**'s historic premises.





For more than 30 years, **On-Site** offers its services as a technical workshop specialised in the construction and repair of health care and specialised vehicles. The synergy with Orion and

the sharing of its know-how have allowed the company to inaugurate its new On-Site factory in Borgo San Donato, Sabaudia (LT) a division totally dedicated to the manufacture and showcasing of new and used ambulances and specialised vehicles. On-Site by Stefano Ginnetti also features a mobile workshop equipped with all the instrumentation and equipment necessary for any onsite repair throughout the Lazio region.



ORION Sommatino (CL)



The core business of **Sommamed** s.r.l. is focused on the **technical assistance for ambulances and specialised vehicles**. Equipped with a specialised workshop and a team of professionals, the company repairs vehicle malfunctions, at both an electrical and mechanical level, such as the reactivation of the electrical system of the patient area or the restoration of the oxygen system.



Since 1997, the year it was founded, Orion has obtained multiple corporate quality certifications and Italian and European standardisations for the manufacture of its own ambulances and specialised vehicles. ISO9001 certified since 2006, in 2011 the company was awarded the ISO14001 Environmental Certification, for its environmental awareness, and the Ethical Certification according to the SA8000 standards for corporate social responsibility, reaching another important milestone towards quality. In 2018, the company completed the business certification cycle obtaining the OHSAS 18001 for safety in its work environments. Each vehicle produced has surpassed numerous tests for the safety and comfort of the occupants, obtaining numerous certifications, starting with EN1789:2007+A2:2014, the European certification that outlines the standards for the production of ambulances. Moreover, thanks to the European Standardisation, every vehicle produced on the foundation of a Fiat Ducato or Volkswagen Transporter does not need to be tested at the Driver and Vehicle Licensing Agency. Orion's electrical systems have passed the tests for electromagnetic compatibility, crash tests have been conducted on the seats for impacts superior to 20G, as well as the wall units, the furniture and the rear-facing bulkhead seat have been subjected to drag tests measuring 10G. The resin with which Orion constructs the patient area and furnishings holds a 1st class certification for fire resistance according to the European standard EN ISO11925-2: 2010 and the air conditioning has passed tests from -20 to +40 degrees, to always guarantee the maximum comfort in all conditions of use in compliance with the requirements of EN1789:2007+ A2:2014. For those who spend many hours driving or in the patient area, each ambulance has passed the tests relating to vibration and noise, in compliance with the most restrictive regulations. Orion's standardisations are not limited to Ambulances but also vehicles for disabled transport, therefore, the company has passed safety tests on wheelchair restraint systems and the European Standardisation on the foundation of a Fiat Doblò, thanks to which mass production is possible. Each and every day, Orion works to surpass itself and to provide its customers with reliable and safe long-lasting vehicles, without neglecting the comfort and quality of the onboard experience, reaching its *permanent place in the front-line!*















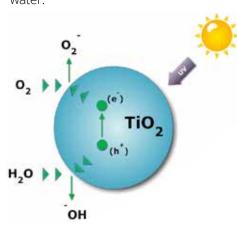
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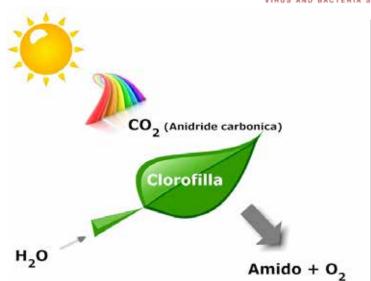
WHAT IS PHOTOCATALYSIS?

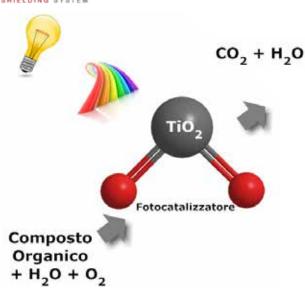
Photocatalysis is defined as "the acceleration of the speed of a photoreaction due to the presence of a catalyst". A catalyst is neither changed nor consumed by a chemical reaction. This definition includes

photosensitisation, a process in which a molecular species undergoes a photochemical alteration as a consequence of an initial absorption of light energy by another molecular species, entitled photocatalyst. The chlorophyll in plants is a type of photocatalysis. With respect to photosynthesis, where chlorophyll captures sunlight to transform water and carbon dioxide into oxygen and glucose, photocatalysis (in the presence of a photocatalyst, light and water) generates a strong oxidising **agent** capable of transforming organic substances into carbon dioxide and water.









TITANIUM DIOXIDE

Titanium dioxide, in the anatase form, is the most common photocatalyst and features the following advantages:

- Low cost
- High photocatalytic efficiency
- Non-toxic

Titanium Dioxide, also known as **titania**, is the naturally occurring oxide of titanium, with the chemical formula TiO2. It is considered a safe and harmless substance for human health and is commonly used in the formulation of paint, printing inks, plastics, paper, synthetic fibres, rubber, capacitors, colours for painting and pastels, ceramics, electronic components, food and cosmetics. There are numerous studies published on the use of titanium dioxide as a photocatalyst for the decomposition of organic compounds: as a result of exposure to light, titanium dioxide produces **Reactive Oxygen Species** (**ROS**), which react with organic substances, producing non-toxic inorganic substances.

MECHANISM

When titanium dioxide absorbs Ultraviolet (UV) radiation coming from the sun or from an artificial light source (fluorescent lamps), it generates pairs of electrons and holes (electron-hole pairs). The (positive) hole of the titanium dioxide breaks down water molecules into hydrogen and hydroxyl ions/radicals. The (negative) electron reacts with the oxygen molecules to form superoxide ions. This cycle, which continues until the photocatalyst is illuminated, represents the general photocatalytic reaction mechanism of titanium dioxide.

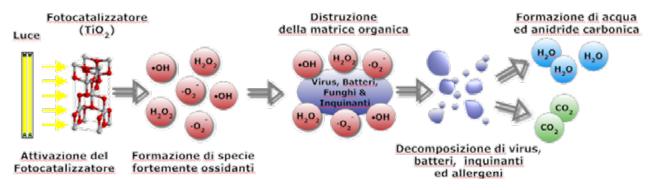
PHOTOCATALYTIC OXIDATION: ANTIBACTERIAL AND VIRUCIDAL EFFECT

The bactericidal and virucidal effect due to the photocatalytic action of the TiO2 is due to the formation of Reactive Oxygen Species (ROS), such as O_2^{\bullet} , H_2O_2 e HO $^{\bullet}$, generated by the TiO2-light synergistic system. Most studies (Ireland et al, 1993; Cho et al, 2005) have always led to the same conclusion, namely that the hydroxyl radical HO $^{\bullet}$ is the main species involved in the bactericidal and virucidal action of photocatalysis.

The hydroxyl radicals, being extremely short-lived (10⁻⁹ secs), must be generated near the membrane so that they are able to oxidise some components. Their extremely short lifespan and the fact that they are produced on a surface, making them harmless to people.

The most powerful advanced oxidation systems are based on the generation of hydroxyl radicals. The hydroxyl radical is an extremely powerful oxidising agent. Because of its strong oxidative capacity, photocatalytic oxidation can effectively sanitise, deodorise and purify air, water and various surfaces.

Photocatalysis not only kills bacteria cells but decomposes them. Titanium dioxide has been proven to be more effective than any other antibacterial agent because the photocatalytic reaction takes place even when there are cells that cover the surface and the multiplication of bacteria is active. Furthermore, the endotoxin, resulting from the death of the cell, is decomposed by photocatalytic action. Since the Titanium dioxide does not degrade, it shows a long-term antibacterial and virucidal effect. Disinfection by titanium dioxide is generally 3 times more effective than that obtained with chlorine, and 1.5 times of ozone.



THE NEW MODULAR STRUCTURE

Nanostructured photocatalytic sufaces

"Antibacterial ambulance" project was born following the meeting and merging of **skills between Orion and Next Technology**, a research centre with a know-how on nanostructured materials, with a strong 10-year study and research. The project was born from this cooperation for the development of innovative materials for the fitting out of new generation antibacterial ambulances.

The Pure-Health antibacterial modular structure, is realised through a new (patented) production process of the components made of nanostructured composite material. This made it possible to obtain a nanostructured photocatalytic surface. At the base of the new bactericidal and virucidal action system, there is the combined use of these structures with full-spectrum fluorescent light lamps.

Presentazione XIII-11				
Composto	Potenziale di Ossidazione (volts)	Potere Relativo di Ossidazione (Cl ₂ = 1.0)		
Radicale Idrossile	2.8	2.1		
Radicale solfato	2.6	1.9		
Ozono	2.1	1.5		
Perossido di idrogeno	1.8	1.3		
Permanganato	1.7	1.2		
Biossido di cloro	1.5	1.1		
Cloro	1.4	1.0		
Ossigeno	1.2	0.90		
Bromo	1.1	0.80		
Iodio	0.76	0.54		

Fonte: U.S. Environmental Protection Agency

The new Orion Pure-Health equipment is:

- A real independent cell inside the vehicle, offering a rigid and strong protection to users in the event of an accident.
- Perfect passive protection, without sharp corners.
- This is a unique tool that constantly reduces the growth of bacteria and viruses commonly found on surfaces. It is also active in the presence of people.

PURE-HEALTH ORION EQUIPMENT: 360° SAFETY SOLUTION

Further to maintaining the characteristics of the current Orion modular fittings, the new primary structure made of nanostructured composite material, introduces a new safety factor linked to the health care of staff and patients.







LUXOR IS
THE PERFECT
HARMONY
BETWEEN
DESIGN AND
TECHNOLOGY

The exclusive design created by our designers, maintains the **vehicle's aerodynamics** and integrates **LED lights with maximum lighting efficiency**, to ensure maximum visibility of the rescue vehicle in all emergency scenarios. At the front of Luxor are the **sirens' speakers** and the efficient lighting system, **useful for finding house numbers**. The shape of the rear part, in addition to allowing integration of the vehicle's relay lighting system, conveys the air introduced or ejected from the sanitary compartment aerator.









The Domino project, comes from an important study carried out by Orion in collaboration with the University of Florence.

Since the first design phase, the goal was to offer a product with innovative safety features, ergonomics, design and flexibility.

Domino is better described as a system that is suitable for infinite solutions, rather than just as a single "construction prototype". In fact, this set-up consists of an

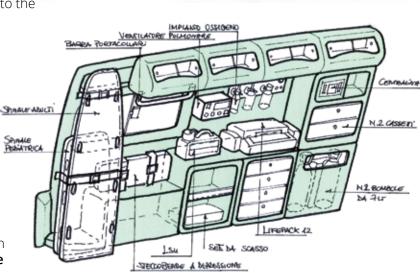
integral shell covering covering the vehicles' interiors and a series of furnishings chosen with the customer to meet any need. By modifying the combination of furnishings, Orion is able to create ergonomic solutions that are very different from one another and respond to the many requests received by sector operators.

All the shell parts and the furniture manufactured by Orion, are made of nautical fibreglass with variable thickness. The structural reinforcements are designed to offer maximum stability, the electric system "can bus mosfet" with LED lights offers a high reliability and ease of use.

Domino is available on all types of vehicles: Fiat, Citroen, Peugeot, Renault, Volkswagen, Mercedes, both for emergency and transport.

Domino can be equipped with the "Pure Health" sanitising system that allows continuous sanitisation of the vehicle also with patient and personnel on board: an exclusive Orion.

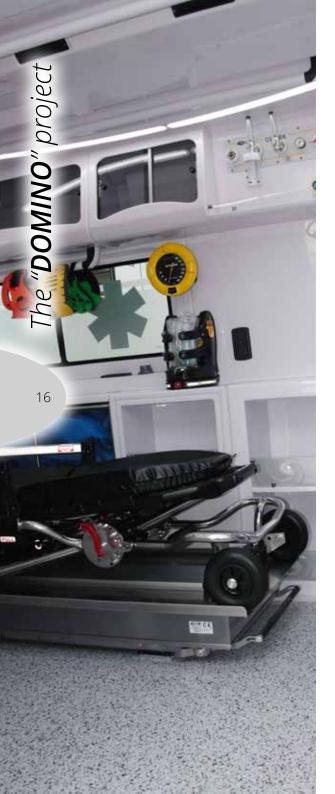
Our integrated "Luxor" led spoiler, or more classic solutions, such as bars or flashing lights, can be installed externally. *Domino: not a simple Ambulance, but your Ambulance!*

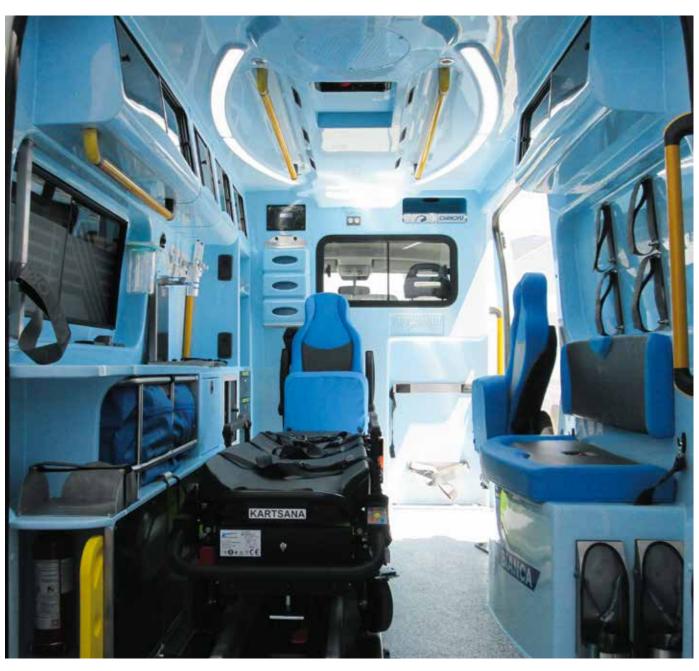
















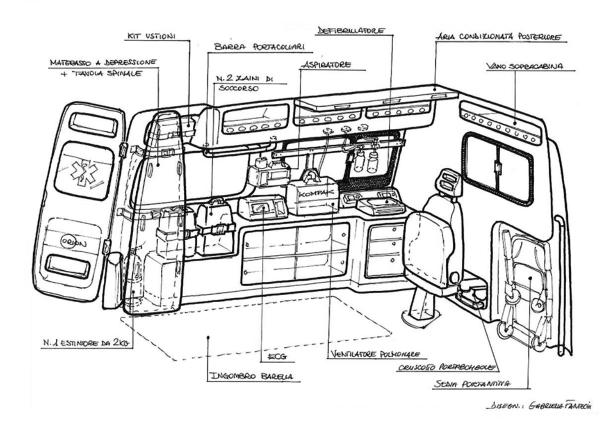




Quadra System is the ideal solution for those looking for a **functional and essential set-up.**

With only 4 fibreglass parts, Quadra integrates all the necessary furniture for stowage of equipment and first aid. The cladding components are made of nautical fibreglass with variable thickness. The structural reinforcements are designed to offer maximum stability and protection, whilst the electric system "can bus mosfet" led offers a high reliability and ease of use. Hot/cold air distribution system, the solid longitudinal handle, the aerator and the LED lighting system, are integrated with the ceiling. The storage compartments are closed with intersecting doors made of safety glass. The large support surface allows the storage of any type of electro-medical device, for emergency assistance. The self-levelling floor on medium density plywood, ends on the lower perimeter of the vertical walls in order to prevent infiltration of liquids under the walking surface.

The standard configuration of Quadra is complete with the main emergency equipment and can be supplemented by numerous accessories such as: exclusive Luxor spoiler, oxygen tanks, communication port between the patient area and the cabin, energy system, additional cabinets, cushioned stretcher support or specific electro-medical devices for medical assistance on board. Quadra can be customised with a wide range of colours, without additional costs. For those who care to first-aiders' constant safety, Quadra is also available in Pure Health version. Quadra: the ultimate compromise between ergonomics, quality and price.















































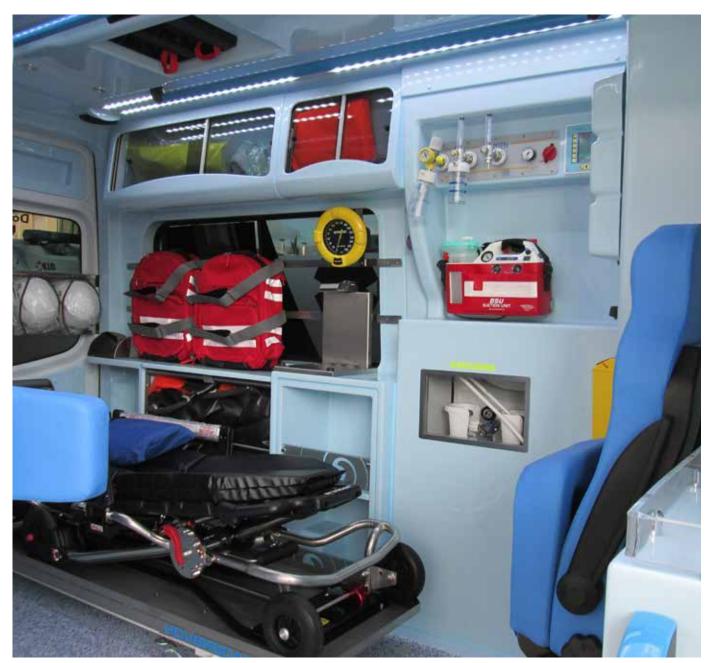




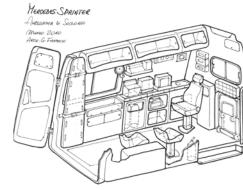




















Ambulance type A1 (rescue) on the new Trafic. The Renault van, built in collaboration with Fiat (known on the market as Fiat Talento), lends itself well to being transformed into a rescue ambulance. Thanks to its external dimensions and to the excellent internal volume, it allows maximum comfort without any renunciation, neither in terms of space to work, nor in terms of storage of equipment. Thanks to its small size, it is also suitable to reach the most inaccessible places. There is ample space inside for operators and all the necessary equipment to perform rescue operations and journeys like CMR (Convention on the Contract for the International Carriage of Goods by Road): vacuum cleaner, electromedical devices, backpacks, oxygen tanks and portable oxygen tanks are conveniently located. The Domino set-up is obviously completely editable and customisable to be adapted to each client's different needs.





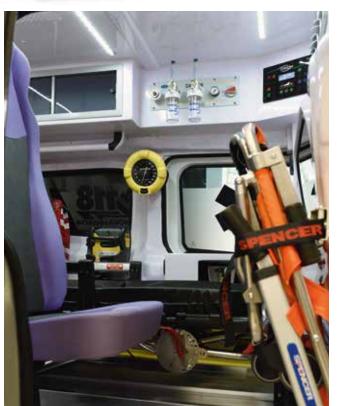














An Orion production in collaboration with Fiat. This is the ideal ambulance for those needing a small vehicle for medical transport. Thanks to a close study of the interior spaces, all the essential equipment find the right place. A normal size stretcher is also included inside this Fiat Doblò, making it interchangeable with larger ambulance stretchers.

In full Orion spirit, it is possible to completely personalise your vehicle Low costs, both in terms of design and running your vehicle.

Quadra set up applied to Doblò comes in different colour combinations and with the patented **PURE HEALTH sanitising systems**

Doblò XL Ambulance: the "little" one that feels "LARGE"!



In order to satisfy all needs, the Orion set ups can be adapted to any type of vehicle















The range of cars that Orion can transform into emergency service cars is rather wide.

The often contained interior spaces, the different configurations of the vehicles and the numerous equipment that must be easily accessible in every situation, make a specific design indispensable for each set-up. The latter combined with a care of an artisanal production make the amergency car Orion, vehicles with unique set ups.











Orion offers a wide range of equipment for **the transport of disabled people**, ensuring maximum safety, flexibility and comfort.

Through a "CUSTOM-MADE" research aimed at satisfying the customer's needs, Orion is able to set up any commercial vehicle of large or small size.



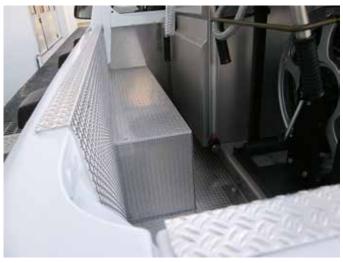


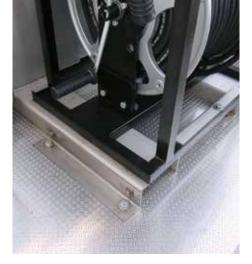
Orion is not only limited to the development of rescue and emergency vehicles, but it also focuses on the design and construction of vehicles for Police Forces and Civil Protection. Particularly the needs of the latter are multiple to deal with all very different scenarios. We are able to build many types of equipment through listening to the problems brought up by sector operators, the ability to establish synergies with other companies in this industry, and the willingness to respond to requests with innovative and highly reliable solutions.

















ENERGY SYSTEM

Ambulances equipped with this special device can remain parked with the engine on, even after removing the key. During all the emergency phases the alternator will guarantee the necessary energy to power the flashing lights, the lights, the air conditioner, the refrigerator (or other utilities), preserving the batteries on board. In the event that an unauthorised person attempts to move the vehicle, the Energy System will activate by switching off the engine and blocking the steering system.

Energy System, more security and more energy to the rescue.

DOMINO ECO SOLAR SYSTEM

It is a photovoltaic energy system that supplies electricity, even in situations of low power, and is able to charge the service batteries and the installed electromedical devices.

The electronic controller installed on the vehicle prevents any current peaks that could damage the equipment and allows monitoring of the voltage and intensity of the energy supplied.

OXYGEN TANKS COMPARTMENT, DESIGNED FOR SAFETY

The oxygen tank valves are subjected to a high working pressure. In the event of a collision with other vehicles, the very violent impact of the valves could cause irreparable damage and serious injuries.

With the exclusive cab tunnel, the chances of this happening are drastically reduced, because the oxygen tanks are located in the centre of the vehicle, away from the outer body of the ambulance.

The removable trolley guarantees greatest ease of oxygen tanks replacement, while the polyurethane cabinet of the cockpit offers a lot of space for the possible housing of communication devices and storage compartments.







NEW TOUCH AND TOUCH PRO CONTROL UNITS

Orion, always receptive to new technologies and the growing needs of its customers, has created the new Touch and Touch Pro control units that, in addition to integrating the on-board user controls, are equipped with the functionality to manage the entire fleet. The system based on mosfet technology is not equipped of traditional fuses, allowing the monitoring and management of short-circuit overload situations, with automatic restoration of the operation once the cause of the anomaly has been resolved. The user interface is made of materials that are resistant to common disinfectants and acids. It is a completely smooth apparatus, free from cracks and surface screws, to allow a perfect cleaning thus offer maximum hygiene. It is also suitable for use with latex or nitrile gloves. Touch and Touch Pro allow you to manage flash sequences, adjust the intensity of the sanitary compartment lights and check the maintenance deadlines.



TOUCH

"Touch" is built with Capacitive Technology, without mechanical actuators to guarantee maximum reliability. The controls are simple and easy to identify, thanks to the multi-colour back-light. They allow access to all functions, including the management of automatic air conditioning. The central display shows all the useful information: date and time, external and internal temperature, battery voltage, oxygen reserve, status messages (e.g. open doors, external 220v plug, maintenance expiration, etc.). A simple menu allows you to change settings and access all the features. The driver compartment control unit can also manage the main users of the sanitary compartment.



TOUCH PRO

"Touch Pro" is equipped with two 10 "TFT active matrix monitors in the sanitary compartment and 7" in the guide compartment. The display works on the basis of the combination of transmissive and micro-reflective technology for optimal viewing in direct sunlight. The advanced technology contained in the Touch Pro control units allows real-time diagnostics, simple and immediate updating and extremely efficient power management. The design of Touch Pro integrates perfectly into the dashboard of the vehicle replacing any multimedia system provided by the parent company.

The main features of Touch Pro:

- Satellite navigator
- FM radio
- Multimedia player (MP3 + Video + pdf)
- Internet surfing
- External cameras (multicam registration)
- Full inverse function (possibility to present the user interface of one control unit in the monitor of the other).
- Maintenance schedule management
- Check list management and check of the start of the shift
- Attendance check
- 4.5G external modem interface
- Wifi
- Remote connection for Up-grade, maintenance, diagnostics
- Search for nearest authorized service center
- Digital user manual

Additional subscription services accessible remotely:

- Geolocation in real time of the means and route visible in google maps
- Travel planning and connection to vehicles in real time
- Registry management, courses and staff shifts
- 360 ° fleet management: maintenance and certification deadlines for the vehicle and equipment
- Management of patient cards
- View and download monthly and daily reports in PDF format
- Instant Chat with staff for assistance
- Responsive web design compatible with every device
- Secure storage of data on cloud servers with 24-hour assistance
- Easy implementation of the system fitted on already circulating vehicles

Our locations:

- Via Dei Gelsi, 14/A/B/C 50041 Calenzano (FI)
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 09028 Sestu (CA)
- ♥ ORION Alessandria
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