

DEFENCE



CAPABILITY APPROACH

LOGISTIC SUPPORT

FRENCH EXCELLENCE
IN DEFENCE AND SECURITY

GICAT

The French land defence and security
industry association



GICAT.COM

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INTRODUCTION

LOGISTICS FOR GROUND FORCES IN MULTI-DOMAIN OPERATIONS EVERLASTING PERFORMANCE FOR SUPPORTED FORCES

SUPPORT CONSIST IN the coordination and design of all the activities achieved to allow the forces to set up, to deploy, to live, to act, to fight and to last. There are three different domains to support a deployed force: troops (from recruitment to medics), equipment (from design to acquisition and maintenance to decommission) and consumable resources (ranging from Petroleum-Oil-Lubricant to ammunitions). Each of them requires its own supply chain and its own specific technologies.

An everlasting support relies on:

- the long term preparation of support (its concept and its organization including units, equipment and permanent stocks acquisition and maintenance);
- training the first line units and the larger multi domain units with their own support elements;
- to include support in the operation and battle designs.

Therefore and for each domain, three steps have to be designed in a support oriented way.

PROCUREMENT AND ACQUISITION

Principally relying on the skills and the experience of the armament industry, this step includes equipment production and support solutions' design for each equipment and consumable items. Lasting up to fifteen years and more, this step should secure and confirm:

- the equipment's robustness and durability;
- the required level of support;
- the cost of equipment's owning (i.e.: the sum of the development, acquisition and maintenance costs).

RISE OF THE FORCE

After the building of the force according to the design, that step is the crucial time for testing, training and improving the force and its support's organization. This step should provide clues to define the right size of stock for each consumable.

ENGAGEMENT

This step is the most sensitive and depends totally on the success of the two previous ones. During the commitment of the Force, the support follows and cadences the high frequency cycle of the operations consisting in:

- gathering force clusters;
- committing them;
- regenerating them while deploying relieves.

The sustainability of the engagement cycle requires:

- 1** A logistics information management systems that coordinates:
 - consumption forecast to share and move the supplies and to plan maintenance;
 - casualties and damage reports;
 - clusters' rest planning process;
- 2** Preexisting support elements attached and trained to support their own troops and equipment with the required technology;
- 3** Protected, agile and cooperative equipment for logisticians to allow them to follow and support first line units;
- 4** Dedicated forces and specific tools to protect to support and to regenerate the forces clusters.



LOGISTIC SUPPORT

COMPONENT BREAKDOWN



FLows CONTROL

After completing pre-routing, transit between embarkation and debarkation (POD/POE) points and, if necessary, strategic transport, the intra-theater routing involves to support the actions of armed forces in completing their missions by controlling physical flows and supplying logistic units and bases, while contributing to the security of communication routes and open spaces.



MAINTENANCE - REPAIR - OVERHAUL (MRO) / EVACUATION AND RECOVERY

Equipment operational readiness (MRO) involves ensuring for each formation the level of equipment availability required to perform its missions, as defined by the force commander, and includes the following functions:

- the collection and disposal of friendly or enemy equipment;
- the management, procurement, storage and distribution of resources;
- the maintenance and repair of equipment and weapons systems.

Because inservice support of deployed equipment is provided by the Army maintenance units or the industrial prime contractors, only the vehicle recovery and evacuation activities for land forces are addressed in this brochure.

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SOLDIER SUPPORT

This support aims to meet the vital needs of soldiers by providing appropriate clothing, camp, sleeping and meal equipment and services at individual or collective level.



GENERAL ENGINEERING SUPPORT

In addition to individual support, collective support is provided to offer protection, housing, hygiene and catering fixed and mobile resources and services, as well as deployable infrastructure for external operations (camps for 1 000 soldiers). For identification purposes in the component breakdown, the following pages of this brochure shows, in two separate sections, components of soldier support and deployable infrastructures for external operations.



MEDICAL SUPPORT

Medical support as provided by the French Defense Medical Service includes all means of evacuation and treatment that contribute to creating sanitary conditions and conserving human life. It is based on the conjunction of positioning medical and surgical teams as close as possible to soldiers and early medical evacuation capabilities.



P.O.L. SUPPORT








The POL support allows armed forces to be autonomous with regard to fuel and related products, during travel and when stationed, during implementation, combat and disengagement phases, as well as in daily activities. It includes the acquisition of resources, procurement, quality control, storage, transportation and distribution of fuel, as well as maintenance of specialized equipment.



LOGISTICS INFORMATION SYSTEMS

Dedicated to the storage, the treatment and the exchange of all the specific information for the management of the Logistic Support. The Logistics Information Systems are deployed from the Joint Logistics Headquarters down to the Combat service support unit.

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ACTIA TELECOM



Soldier
Support



General
Engineering
Support



Medical
Support

ACTIA is an international and family-owned company which has a great expertise in designing, manufacturing and supporting customized solutions for satellite telecommunications (satcom) for defense and governmental markets. With 24 companies in 16 countries and 3800 staff, ACTIA has based its growth on commitments: innovating, manufacturing, creating values, demanding quality and staying independent.

SATCOM SOLUTIONS DESIGNER, MANUFACTURER AND INTEGRATOR FOR DEFENSE

RUGGEDIZED AND FIELD-PROVEN SATCOM TERMINALS

ACTIA Telecom offers a wide range of robust and easy-to-use satcom terminals and systems guaranteeing secure 2-way transmissions of video, voice & data in C, Ku, X, Ka, Q/V Band and dual band (X/KA). Compatible with any modems.

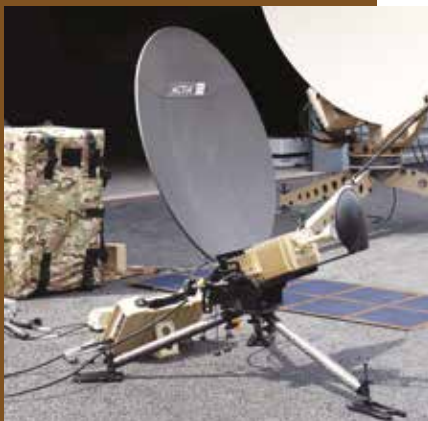
- TravelSat: compact manpack terminal.
- FlyAwaySat: easily transportable terminal.
- MobileSat: low profile, light weight On-the-Move terminal.
- CoreSat: earth station with 1m to 9m antennas with manual or automatic pointing.
- ACTIA Satcom network monitoring system which offers operators simple and effective means of monitoring and controlling a satcom ground segment and its network of terminals.
- ACTIA Telecom also provides its customers with all the support they need in the design and acquisition phase and during operation: engineering, training, hotline and maintenance.

RELIABLE PARTNER FOR DEFENSE OPERATORS

For almost 50 years, ACTIA Telecom's offer in the Satcom Defence field includes supplying major products for the ground segment of satellite transmissions (power amplifiers, integration assemblies, supervision systems, etc.), supplying turnkey stations (stationary, transportable, tactical and mobile stations) and providing the related services: engineering, installation and implementation, training, maintenance in working condition.

ACTIA Telecom brings the following key benefits to its clients:

- Sector experts: land, maritime, air and space;
- Dedicated industrial site for Satcom: R&D, manufacturing, integration, qualification capabilities and customer service;
- Extensive records in satcom ground segment integration: RF sub-systems / baseband/ terminals / network operation centers;
- Expertise in designing / manufacturing of high-power amplifiers (TWTA, SSPA) and earth stations up to Q/V band;
- Full master of radio frequencies up to 50GHz;
- Signal processing/transmission techniques including complex modulations;
- Services: customized trainings for operation and maintenance, antenna commissioning (up to 13m), Integrated Logistic Support.



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Flows
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- Repair -
Overhaul
(MRO) /
Evacuation
and RecoverySoldier
SupportGeneral
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Support

P.O.L. Support

ARQUUS

European leader of land protected mobility, ARQUUS is a major actor of the French Defense industry. Its expertise ranges from vehicle design, propulsion and mobility, to systems integration, automation and support. Manufacturer of world-renowned vehicles such as the VAB, the VBL, the Bastion and the Sherpa families, ARQUUS is a dedicated partner to more than 60 countries' armies all around the world.

PROVIDING THE ARMIES WITH LOGISTICS SOLUTIONS SINCE 1898

A CENTURY OF LOGISTICS

ARQUUS has been a major supplier of logistics solutions for the French Army since 1898 and its first military vehicle, a Panhard car designed for transport and liaison. Supplier of the Renault « Taxis de la Marne » and the Berliet « Trucks of the Voie Sacrée », vital to the defense of Verdun during the First World War, Arquus has written history alongside the Army.

Arquus has currently more than 12,000 logistics trucks in service, from the legendary VLRA to the GBC180, TRM2000, TRM10000, which have been the workhorses of the armies or decades, and which still take charge of a large part of the French Army logistics. Supporting the armies, ARQUUS still supports and modernizes these fleets.

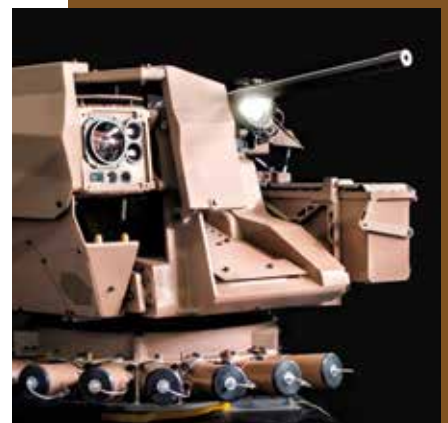
A COMPLETE, NEW LOGISTICS RANGE

This new complete range is available for all kinds of missions for the armies, from logistics and strategic transport to tank or systems transport, as well as breakdown truck missions. Depending on these missions, ARQUUS can offer different versions, including different levels of protection. Arquus' trucks are also designed to accommodate ring-mounted weapon, or remote-controlled weapon system as the Hornet Lite, weapon of choice for self-defense.

This new range can be equipped with all the automation solutions developed within the Group, notably the platooning solutions. It is also ready for the most advanced technologies regarding energy management and maintenance. These proven solutions, first developed for important civilian duty trucks, are available for the armies, thanks to ARQUUS' experience in terms of dual technology militarization, adaptation and integration.

All Arquus vehicles are manufactured in France and specifically designed for military applications, with the company's historical know-how. In order to get closer to the armies, ARQUUS also benefits from a global logistics network, in France as all over the world.

ARQUUS is one of the three members of the consortium in charge of the Griffon and Jaguar contract of the French Scorpion program.

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BODY ARMOR RECYCLER



Soldier
Support

BODY ARMOR RECYCLER provides safe and reliable demilitarization & disposal programs for body armors, ammunition casings and personal protective equipment's.

BODY ARMOR & PROTECTIVE EQUIPMENTS & AMMUNITION CASINGS DEMILITARIZATION

WE GUARANTEE THE DESTRUCTION OF YOUR EQUIPMENT'S

BODY ARMOR RECYCLER provides since 2009 complete, safe and eco-friendly demilitarization solutions. Recognized in many countries, our seriousness and experience allow us to guarantee the complete destruction of the items collected.

TYPE OF MATERIAL COLLECTED:

- **Body armor:** Vests with or without hard plates, bomb suit, soft ballistic shield;
- **Demilitarization process:** the vests are first dismantled, each component is processed separately; the soft woven aramid fabric is recycled into fibers through an irreversible process (this material has a value). The soft panels made of UD's, the hard plates and cover are shredded, destruction costs are charged;
- **Personal protective equipment's:** CBRN equipment's (free of contamination), uniforms, law enforcement equipment's, helmets, hard ballistic protections...
- **Demilitarization process:** these items are shredded; destruction costs are charged;
- **Ammunition casings:** Brass, aluminum, steel...
- **Demilitarization process:** the casings are sorted per type, shredded and then recycled by the metal industry. We usually bring a value to this material.

OUR SERVICES:

- Demilitarization guaranteed;
- Demilitarization & destruction certificate provided;
- Ex works collection is possible;
- Full traceability;
- High capacity;
- Operations carried out in France;
- Strong references around the world;
- Respect of environmental regulations and French rules.



body armor
RECYCLER 

BODY ARMOR RECYCLER

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Flows
control

BOLLORÉ LOGISTICS

Bolloré Logistics is a global leader in international transport & logistics and one of the top 10 transport and logistics companies in the world with the largest integrated logistics network in Africa.

BOLLORE LOGISTICS ACTIVITIES

Our extensive experience serving on various Armed forces and military industries sector is a strong competitiveness opportunity for all the players in this field. To properly cover the Logistics support requirements as well as urgent issues for overseas theatres of operations, our people can manage from A to Z, 24/7.

Our Defense & Security expertise is based on:

- A dedicated know-how capable of implementing tailored solutions;
- A range of added value services, tailored to different clients or specific international logistics issues (secured transport plan, flow management, individual follow-up over the export control requirements, conceptualization of organization plans for MRO needs...);
- A supply chain specialists' network in 5 regions.

We offer tailored made solutions to: Manufacturers, OEMs, Missiles manufacturers, MRO & overhaul, Institutional clients.

SERVICES ON THEATRES OPERATIONS

In addition to its organic resources and support to Armed forces & outsourced contracts, Bolloré Logistics, established in 107 countries offers synergy of its fully logistics capacities in order to meet with the current needs over national and international operations.

Its logistics capacities from the design and initial engineering to the door to door transport, merely in the African Hinterland are the essential assets to make the global support (Logistic, Transport, Customs, Tracking incl. IOT technology) to the deployed forces operation's needs.

This applies for host nations, local & regional forces, international & regional organizations, both civil and military.

Mutualized transport & geolocation system, Management & control of the subcontractors, In-house distribution, Inspection of equipment, Management of international platforms, Packaging, Distribution up to assembly lines, IT system for transport plans optimization, Implementation of dedicated customs procedures for military goods, MCO/MRO support.

CORPORATE RESPONSIBILITIES

Our commitment to our social responsibility is reflected in the Group's Ethics Charter and contributes to protecting the environment and fostering sustainable development.



BOLLORÉ
LOGISTICS

BOLLORÉ LOGISTICS

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BREN-TRONICS (INTERNATIONAL SOLUTIONS SARL)



Soldier
Support



General
Engineering
Support



P.O.L. Support

Bren-Tronics designs modular Lithium energy storage solutions delivering high energy density (from KWH to MWH) to power large military camps. Calculating power requirements means looking at it from both the overall unit and soldier's level. This improved logistic chain shall be tomorrow's modern armies' choice. Taking energy off the grid and storing it for whenever it is needed is now possible.

POWER & ENERGY SOLUTIONS DESIGNER & MANUFACTURER

DESIGN, ENERGY STORAGE, SMART CHARGE

Bren-Tronics focuses on bringing armed forces around the world the latest and most efficient expeditionary power solutions for uninterrupted autonomy in the field since 1973.

Bren-Tronics' expertise remains focused where no one can compromise safety, reliability and performance. That is why we offer the next generation of Li-Ion batteries as an advanced energy solution for use in multiple applications including solar energy systems, generators, smart grid applications, UPS backup power systems and more.

Bren-Tronics anticipated the need for field recharging a number of years ago and is now able to provide different chargers, that can be dedicated for one type of battery, or that can recharge different types of batteries at the same time using solar, AC or DC energy (whichever is available).

POWER SOLUTIONS FOR THE OVERALL UNIT

Power solutions for military camps:

Bren-Tronics has developed the BREENERGY® Hybrid energy storage solutions that constitute an energy storage solution along with standard military generator and renewable solar energy. This allows the unit to provide several KWH of AC and DC power from the battery, never turning on the generator as long as the sun and energy storage are available.

The right energy at the right size:

Sometimes providing 10X more power than what was actually needed can lead to a waste of fuel and eventually damage the generator. «Right sizing» the total energy storage system and tying it in with renewable and energy storage will drastically cut the fuel requirement, saving cost and reducing risk with fuel deliveries.

Interoperable power solutions for the soldier:

Bren-Tronics continues to innovate by providing more power and energy in the same footprint. As for charging logistics, Bren-Tronics has developed universal chargers designed for operational use and not per battery type. Lightweight, multi-sources and fast charge are the key characteristics of our charging solutions.

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Soldier
Support



General
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Medical
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CEGELEC DÉFENSE

CRITICAL NETWORKS AND INFRASTRUCTURE RESILIENCE – DEPLOYMENT SUPPORT COMMODITIES

PROTECTION OF NATIONAL VITAL FACILITIES

CEGELEC Défense a subsidiary of VINCI ENERGIES is the French MOD contractor for the upgrade and development of all Military sites and facilities protection and security nationwide. This responsibility extends from airbases to naval bases, barracks, headquarters, depots, communications and data centres including associated networks and utilities. The domains covered encompass perimeter fencing, access control, video surveillance, intrusion detection, supervision, energy and communication resilience. The expertise of CEGELEC Défense addresses comprehensive threats from direct Kinetic attack to CBRN, blast, seismic, High Altitude Nuclear Electromagnetic pulse through the implementation of bespoke building design, hardening, RF shielding, filtering, etc.

OPERATION SUPPORT IN THE BATTLEFIELD

CEGELEC Défense has developed a range of mobile containerized solutions to offer standalone, integral and versatile modular and expandable command posts compliant with military grade standards and transportation modes (Cargo Aircraft, Rail, Road, Maritime).

In addition to these networked and air-conditioned command and control support commodities, CEGELEC Defence produces a comprehensive range of water purification units adapted to harsh environment and capable of processing polluted and contaminated waste water.

These command posts and WPU are battle and humanitarian relief proven and are currently in service both with Armed Forces, Security and Civil Defence units including Gendarmerie.

Cegelec Defense is a leading developer and integrator of comprehensive solutions and services for the provision of commodities and deployment support to operations including mobile command posts, water treatment units and other support components. The company boasts over a half century of design and building of resilient and survivable critical infrastructure and networks of the highest national importance.



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Cegelec
Défense

CEGELEC DÉFENSE

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DESCHAMPS



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Maintenance
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(MRO) /
Evacuation
and Recovery



General
Engineering
Support



Medical
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DESCHAMPS' Mobi-mat® range is dedicated to ground reinforcement, deployable flooring and tactical mobility. DESCHAMPS develops and manufactures innovative solutions for very demanding applications in France since 1860. DESCHAMPS operates worldwide and is a reference supplier for the main armed forces such as French, US, German, etc. and also international organizations as NATO/NSPA or UN.

MOBI-MAT®: GROUND REINFORCEMENT AND FLOORING FOR EXPEDITIONNARY UNITS

FORWARD OPERATION BASE EQUIPMENT

- Personnel pathway flooring Campfloor™.
- Tent and shelter stabilization and insulation mat Tentfloor™.
- Forward workshop and maintenance flooring.
- Vehicle service lane TAMES™.
- Helicopter landing mat TAHEL™.

TEMPORARY ROADWAYS AND TACTICAL MOBILITY

- Amphibious landing roadway BAM™.
- Ground reinforcement mats GRIMAT™.
- Bridge access and egress.
- Vehicle crossing and recovery gears.

TEMPORARY ROADWAY DISPENSERS

- Truck mounted roadway deployment systems.
- Front-loader mounted roadway deployment systems.
- Trailer mounted roadway deployment systems.



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General
Engineering
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Logistic
Information
Systems

DESIGNER AND MANUFACTURER OF ENERGY CONVERSION SYSTEMS

DESIGN, QUALIFY, MANUFACTURE & SUPPORT

ENAG design, develop and manufacture energy conversion systems working in rugged environments for over 70 years. Our expertise in static and dynamic energy conversion is based on the most reliable technologies of power electronics and electro mechanics. Major international companies acknowledge our capability of providing first class service and products, both standard and customized, for intensive use in rugged environments. Used in Marine and Ground applications, our products are renowned for their quality and reliability.

Our sales team, R&D, production, quality and customer services assist our customers during the different phases of their projects, from the initial design through to qualification and commissioning.

LARGE RANGE OF PRODUCTS FOR FIELD/MAINTENANCE

- **Deployable equipment:** The «deployable» range is particularly suitable for all types of 28Vdc power vehicles. Connected to the vehicle power inlet, all electrical and electronic equipment on board can run without discharging the auxiliary battery and without running the vehicle engine.
- **Distribution equipment:** The «distribution» range allows the user to provide distribution of AC and/or DC stabilized electrical energy on the field using several primary sources: Mains AC network, 28Vdc from vehicle, solar panel, wind turbine or external battery pack.
- **GPU equipment:** The «ADTM and COVALT» power supply ranges are used to supply vehicles like aircraft, helicopters, drones... They are able to supply 200Vac 3-phase 400Hz and 28 Vdc. Easy to use, these ranges of power supplies can be quickly installed and ready for operation. All the products designed by ENAG meet Army requirements and respect the applicable standards (eg. MIL STD, STANAG...) and especially EMC standards (MIL STD 461...).

ENAG

Designer and manufacturer of power electronics equipment for severe environments, ENAG offer a large range of products dedicated to defence applications (Ground & Marine). Working closely with our customers, our solutions are developed and qualified according their requirements (thermal, EMC, chocs and vibrations).



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ENAG
creative energy from a manufacturer

ENAG

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E.X LOGISTIQUE



General
Engineering
Support

Storage of explosive products of all risk division and all compatibility groups.

UNIQUE EXPLOSIVES STORAGE SOLUTION IN FRANCE

LOGISTIC PLATFORM DEDICATED TO EXPLOSIVES

In 2016, E.X LOGISTIQUE became the sole owner of a former military munitions depot.

Established on more than 200 hectares, the 100 storage bunkers can accommodate nearly 4,000 tonnes of explosive products.

Almost 26 000m² of storage space enables it to meet the growing demand for storage of all risks divisions and all compatibility groups (except K).

Its geographic location gives it a major advantage.

Equidistant from Paris and Nancy (2hours), near the A4 and A26 axes and 20 minutes from Paris-Vatry, one of the only two French airports benefiting from an exemption for air transport of Class 1 products (explosives).

A SECURE SITE FOR SAFE LOGISTIC

In addition to being continuously guarded, E.X LOGISTIQUE has a complete security system.

The E.X LOGISTIQUE site is surrounded by a double fence which, coupled with the video protection and sensitive detection system, ensures the safety of stored goods.

All storage bunkers are equipped with an intrusion detection system, providing additional protection.



E.X LOGISTIQUE - EURO BENGAL

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Flows
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Maintenance
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(MRO) /
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and Recovery



P.O.L. Support



Logistics
Information
Systems

WE EXECUTE SUPPLY CHAIN OPTIMIZATION WORLDWIDE

UNDERSTAND, DESIGN, EXECUTE, MEASURE, IMPROVE

Logistics is paramount for any company's competitiveness. GEODIS is a worldwide transport and logistics leader that supports Ministry Defense and Defense Industries in their daily work by helping them overcome their logistical constraints. We're recognized for our expertise and mastery of all aspects of the supply chain, as we serve as a real growth partner for our clients. With our five lines of business (Supply Chain Optimization, Freight Forwarding, Contract Logistics, Distribution & Express and Road Transport), we are an organization that spans all continents, with a direct presence in 67 countries and a global network covering 120 countries. GEODIS is ranked seventh in the world and fourth in Europe in our field. We are also the distribution and express leader in France.

OUR EXPERTISE

Airfreight Control Tower

Dedicated staff who handles transport requests, shipments from airports, operations follow up & boarding checks

3 levels of priority for delivery

- AOG desk customer support (24/7/365).
- Urgent: within 24-48h.
- Regular: within 24-48h.
- From general cargo to highly sensitive shipments: planes & ships spare parts, medicine and related fluids, hazardous/explosive ammunitions material parcels...
- Additional service: Cross-trade shipments.
- Industrial packaging.
- Certification and accreditations ISA-IATA.

GEODIS

The basis of our approach to earning the trust of our customers lies in understanding their needs, designing best-in-class solutions, executing them in a cohesive manner worldwide, measuring operational performance and continually identifying areas of improvement.



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GEODIS

GEODIS

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GILEP



General
Engineering
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P.O.L. Support

GILEP is a cluster composed of 21 independant companies, mid-sized and SMEs, that design and develop equipments and products needed for efficient military POL (Petrol, Oil and Lubricants) logistics. The GILEP companies, long time suppliers of the French Armed Forces (SEA, French military fuel service) can provide high quality and robust equipments for all the parts of the POL logistics chain.

THE FRENCH CLUSTER OF DEFENSE POL LOGISTICS CHAIN

MEETING THE OPERATIONAL POL REQUIREMENTS

GILEP federates, as a civilian entity but under the supervision of the military, a whole set of companies having demonstrated their capability for providing the SEA with all the needed POL logistics equipment, and particularly the sturdy and reliable materiel required for rapid deployment, abroad and in potentially critical environment. The fruitful cooperation that GILEP has developed with the SEA for many years means that GILEP can offer turnkey solutions for all POL requirements. The reputation of quality and reliability of the GILEP companies have made them appreciated exporters in NATO Armed Forces and beyond.

21 COMPANIES: ALL POL EQUIPMENTS AND PRODUCTS

Between them, GILEP members have the ability to provide almost any POL material and product.

One GILEP member will act as project manager and integrate the components of a global military POL requirement.

GILEP companies are dispatched into 6 main branches: TRUCKS (all kinds of vehicles for fuel, water and chemical products transportation), EQUIPMENT AND DISTRIBUTION (refuelling skids, filtration units, metering and loading solutions, fuel management systems, turbines, pumps, valves, connectors, dry break couplings, filling nozzles,...), SECURITY AND SUSTAINABILITY (firefighting equipments, armoured plates, hardened tanks, tires and wheels, treatment of wastewater units, rapid deployment systems of tents), TANKS (mobile refuellers, containerized storage capacities, aircraft refuellers, refuelling carts, hydrant dispersers), PRODUCTS, PROTECTION, SERVICES AND TRANSPORTATION (lubricants, greases, hydraulic liquids, industrial paintings and coatings, air transportation of the POL equipments and vehicles) and STORAGE AND HOSES (rubber bladders, larger bolted tanks, high capacity fixed tanks, various set of hoses).



GILEP

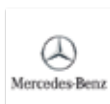
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Soldier
Support

GROUPE MARCK

UNIFORM AND EQUIPEMENT SOLUTIONS

PROTECTION AND INTERVENTION

Design and manufacture of protective and security clothing and equipment (PPE) for armies and public/private security forces.

EQUIPMENT

Sell and export military equipment subject to authorization, to international defense and security forces.

PEACEKEEPING OPERATIONS

Global offer that meets the criteria and capacity requirements specified by the United Nations in order to be eligible for Peacekeeping Operations and their reimbursement.

Groupe Marck is a French manufacturing group that designs, manufactures and sells uniform, equipment and service solutions to public authorities and private companies in France and worldwide. Groupe Marck supports its customers in the complete management of clothing and equipment needs. Beyond a product offer, it offers a wide range of associated services and solutions to meet all expectations and needs.



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GROUPE MARCK

GROUPE MARCK

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FRANCE MACCAFERRI



Specialist of erosion control for about 30 years in France, FRANCE MACCAFERRI innovates, develops and produces tried and tested engineering solutions (gabions, reinforcement and geosynthetics) for civilian and military fields, soil reinforcement, prevention and fight against the natural risks building protection, hardening of the existing installations, mobility support or others infrastructure works.

ENGINEERING A BETTER SOLUTION

GLOBAL KNOWLEDGE FOR LOCAL SOLUTIONS

France Maccaferri is based in Valence (Drôme - 26) and is the French subsidiary of Officine Maccaferri whose headquarters are in Bologna, Italy. Founded in 1986 and traditionally known for technical gabions, in the last 15 years it has greatly expanded its array of solutions and today it offers a full range of competitive and efficient systems for civil engineering, military and construction sectors.

France Maccaferri has a dedicated internal engineering office, is equipped with its own specific softwares and can offer its expertise in works design. Active member of committees for French and European standardization, all its products are made according to the most restrictive European and international standards.

FRANCE MACCAFERRI SUPPLIED MULTIPLE SOLUTIONS FOR DEFENCE:

Protection works: Perimeter security of troops, people and materials, damage limitation, access control, protection of storage facilities.

Infrastructures works: Gabions for construction of retaining gravity structures, bridge abutments, small dams, banks protection.

Trafficability: Restoration itinerary, increased bearing capacity of soils are eased by the use of reinforced products.

Defencell Mac®: Defencell Mac® is a multicellular system available in different sizes that can be installed very rapidly, made from welded wire mesh panels connected by spirals. The mesh is internally lined with a nonwoven geotextile with additional UV and sand abrasion protection. Defencell Mac® can provide protection against ballistic and blast threats, vehicle impact mitigation.

FlexMac® DT: FlexMac® DT is a multicellular system engineered from double twisted wire mesh and internally lined with geotextile. FlexMac® DT is especially designed to ensure protection in case of Flood & Emergency Works as a permanent or temporary solution. These structures allows efficiencies 30 - 40 times superior to the traditional sandbags when used to realize protections works.

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MACCAFERRI

FRANCE MACCAFERRI
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Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery

DEFENCE SOLUTIONS TO SERVE ARMED FORCES

DESIGN, MANUFACTURE, DISTRIBUTE, ENSURE THE SERVICE

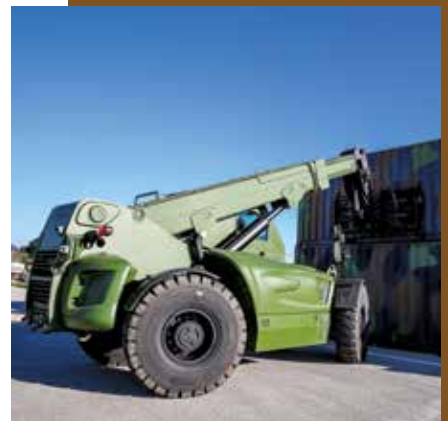
For over 30 years, Manitou group has provided material handling solutions to the defence and security main players, meeting the needs of military logistics, aeronautical maintenance, construction, storage and warehousing. The group researches, designs and manufactures a wide range of dedicated electric and combustion engine machines well known for their reliability, performance and robustness. With 1,050 dealers, our worldwide dealer network provides you the service essential to your international operations. With lifting capacities from 0.5 to 33t and lift heights from -6.8 to 42m, Manitou group has the solution to all your material handling needs.

THE BEST ALLY OF ARMED FORCES FOR

- Heavy logistics in overseas operations: safe, reliable, compact, versatile, air-transportable and heavy lifting capacities solutions (up to 33t).
- Construction: building infrastructures, preparing groundworks, lifting suspended loads, loading material and ground levelling.
- Loading and unloading bulky and heavy loads thanks to a wide range of mast-forklifts and telehandlers.
- Aeronautical maintenance with aerial work platforms or rotative telehandlers fitted with driving assistance system (proximity sensors and lasers) to avoid risk of collision with aircraft.
- Warehousing: easy to use and maintain and an ergonomic answer to your daily operations to support forces on the ground: from the manual and electrical pallet trucks to the mast-forklift through to the truck mounted forklift and the order picker.
- Tailored solutions meeting your requirements: bullet and blast protected armored cabs, tie-down, lifting and recovery points, air-transportability, compliance with military standards (STANAG, MIL-STD, DEF(AUST)).

MANITOU GROUP

Offering its customers handling, lifting and earthmoving solutions is more than just a vocation, it is the «raison d'être» of the Manitou Group. Its know-how and expertise allow it to be closer to every need, regardless of the country, terrain or application. With innovative machinery and services, the Manitou Group creates value for its customers.



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MANITOU
GROUP

 **MANITOU**  **GEHL**  **MUSTANG**
by MANITOU

MANITOU GROUP

Alexander Mayringer

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MUSTHANE



Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



Soldier
Support



General
Engineering
Support



Medical
Support



P.O.L. Support

Musthane produces rapid deploy equipment usually integrating flexible composite, light weight and compact designed products. Our engineering department is able to customize the products and propose made to measure solutions to meet your requirements.

FUEL HANDLING SOLUTIONS AND MOBILITY MATTING SYSTEMS

FLEXIBLE TANKS, PUMPS AND FUEL FILTERING SOLUTIONS

Musthane manufactures the following equipment:

- Transportation of water or fuel by helicopter in bladders;
- Transportation of fuel or water on trucks;
- Fuel storage bladders;
- Pumping and filtration units for refueling vehicles or aircrafts.

MOBILITY IMPROVEMENT EQUIPMENT

Musthane manufactures different type of matting systems made of an innovative material for improving the mobility on expeditionary missions:

- Temporary access roads and beach access mats;
- Helicopter landing mats: a true nomad mobile helicopter landing area made of a flexible composite;
- Tent floors and pathways for camps or field hospitals;
- Vehicle recovery system from mud, sand or snow;
- Vehicle maintenance mats and lifting bags.



Musthane

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Flows
control



Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



General
Engineering
Support



Logistic
Information
Systems

NEXTER

The fundamentals pillars on which Nexter Systems develops efficient support policy are primarily based on supporting customers during the period and upon proposals for flexible Services tailored to each of them.

NEXTER SUPPORT: A TAILOR-MADE SOLUTION

TO REACH THESE SOLUTIONS «SUPPORT AND CUSTOMER SERVICE DIVISION» OF NEXTER HAS ENABLED TO DEVELOP SPECIFIC KNOW-HOW, METHODS AND TOOLS TO PROVIDE:

- Commitments on Services and prices on a the long term and renewable (10 years) including the detection and obsolescence treatment;
- Contracts multivariate settings to easily adapt to budgetary constraints and to support employment variations of the materials over through life support;
- A level of services tailored to the types of fleet (alert, training, ongoing service and management) including overseas military operations;
- Adjusting benefits in perfect synergy and complementarity with those made by the customer under its own maintenance policy;
- Close supply chain monitoring of performance in terms of cost, delivery time and responsiveness;
- Experience in terms of fleets upgrading to regenerate a higher employment potential (upgrading mid-life upgrade...);
- The establishment of regional offices providing services and close relationships with users and the armed forces;
- The ability to work with long-term in partnership with the suppliers to ensure optimum services and no breaking;
- The ability to control the dismantling of land materials removed from service and decommissioned.



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nexter K+N
A COMPANY OF D+S

NEXTER
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78034 Versailles Cedex - France
www.nexter-group.fr

NSE

NSE is an international industrial company whose purpose is to design, build and support integrated systems. We offer a comprehensive in-service support solution to our public and industrial customers in Defense & Security.



Flows
control



Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



Logistic
Information
Systems

YOUR SERVICES PARTNER FOR DEFENSE & SECURITY

STRONG EXPERTISE IN LOGISTICS AND TECHNICAL SUPPORT RELYING ON PROVEN COMPETENCIES

Services activities have been part of NSE for more than 25 years.

Services Business Unit is a major division among the 3 business units of NSE. All these complementary competencies enable NSE to provide a Global Offer of Support and Services for Defense and Security markets.

This global offer covering technical and logistics support relies on:

Customer Care Center & Control Tower

- Value-added interface / 8 languages.
- Global management of support & services markets.
- Control & coordination of internal and outsourced activities.
- IT services: web portals / automatic data exchange.
- Supply-chain & Carrier Management. Planning and supply of spare parts and whole units.
- Storage, picking, configuration management, kitting & dispatch.
- A full range of adapted carrier services for supported items.
- Logistics hub / Reverse logistics.

MRO & Technical Support

- Test / Repair / Overhaul.
- On-site support.
- 1st, 2nd and 3rd level maintenance.
- Reverse engineering.
- Modernization / retrofit.
- Obsolescence management.

End of life management & recycling

Traceability of logistics flows & hardware



NSE

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NYCO

EXPERT IN THE DEVELOPMENT AND MANUFACTURE OF HIGH-PERFORMANCE LUBRICANTS

SPECIALTY LUBRICANTS

More than 60 years field experience in the defence business and pioneer research in the development of turbine oil have made NYCO a key partner for Armed Forces, Airlines, OEMs, MROs and Aero derivative Gas Turbines users around the world.

NYCO offers a wide range of lubricants for aircraft, helicopters as well as Air, Sea and Land military equipment; qualified under military and civil international specifications and approved by defence OEMs such as armored vehicles, armament and aircraft manufacturers.

Our international network of subsidiaries, distributors and agents has enabled us to expand our presence in more than 100 countries around the world, resulting in more than 80% of our revenues generated through exports.

TURBINE OILS - HYDRAULIC FLUIDS - GREASES

- **NYCOLUBE® 127 CLP** is a synthetic lubricating oil for weapons that Cleans, Lubricates and Protects (CLP). It has excellent anti-corrosion abilities and wear protection.
- **NYCO GREASE® GN 145** is a high performance grease fortified with anti-corrosion, antioxidant and anti-wear additives for General Automotive and Artillery. It is designed to lubricate bearings, pins and sliding parts in military equipment (trucks, tanks, artillery, etc.).
- **HYDRAUNYCOIL® FH 3** is a synthetic land vehicle/tank hydraulic fluid used in hydraulic systems and recoil mechanisms offering safe operation at temperatures up to 200°C.
- **TURBONYCOIL® 640** is designed for use in gas turbine engines in military aircraft, helicopters and tanks. Approved MIL-PRF-23699 HTS Class, it is recommended for use in hot engines to avoid carbon deposits and oil degradation.
- **TURBONYCOIL® 600** is a synthetic turbine engine oil that brings outstanding engine cleanliness and exceptional wear protection without compromise on seal compatibility. Approved against MIL-PRF-23699 STD Class, it is qualified by all major engine OEM's.

- **+ 60 years of experience**
- **Present in + 100 Ministries of Defence**
- **+80% turnover in Export sales**
- **Range of +300 products**
- **NYCO Group +300 people in 9 countries**



NYCO

NYCO

Sébastien GARCIA

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RCY

RCY develops tailor-made solutions for the protection of men, women and equipment for your command posts, field hospitals, laboratories, mobile technical shelters.



Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



Medical
Support



P.O.L. Support

TECHNICAL TEXTILE SPECIALIST

DESIGN, CREATE, DEVELOP, PROTECT

For more than 80 years, Reynaud Cauvin-Yvose (RCY) has put all his energy and skills into the development of technical textile solutions that help protect and secure populations and goods

TURNKEY AND TAILOR-MADE SYSTEMS, WITH ALL THE NECESSARY ACCESSORIES

Applications

- First aid post.
- Emergency hospital.
- Civil or military command post.
- Decontamination station.
- Material storage.
- Emergency surgical unit ...

Advantages

- Super fast assembly in a few minutes.
- Ease of transport.
- Specific arrangements.
- Very good wind resistance.
- Requires little staff.
- Selection of materials for optimal resistance to climatic conditions.
- Multiple colors and combinations.
- After-sales service - possibility of on-site training.

Characteristics

- Design in accordance with regulatory standards.
- Inflatable frame made of polyester fabric coated with PVC.
- Made in France.



RCY
Romain BAUDIN
ZA de l'Aupretin,
Rue Nicephore Niepce
71500 Louhans - France

Flows
control

SATELIT ODYSUR

TRANSPORT, CUSTOMS, LOGISTICS

ROAD TRANSPORT, SEA FREIGHT, AIRFREIGHT NATIONAL AND INTERNATIONAL TRANSPORT

Road Transport:

- Class 1 specialization (explosives shipment);
- Trained drivers for confidential and pyrotechnic transport;
- Vehicles rentals with or without drivers.

Sea Freight:

- Fill container loads (FCL);
- Groupage container service (LCL);
- IMCO container, refrigerated container...
- Goods in transit insurance;
- Wessels chartering.

Airfreight services:

- Worldwide airfreight national and international (confidential, military and all dangerous classes);
- Door to door service;
- Aircraft charters;
- Transport insurance;
- World in fast: small parcels express transport.

Customs Agents

- Customs agreements for all customs formalities;
- Insurance;
- Consulting Services;
- Storage under customs.

Logistics

- Storage capacity: 12 000 m²;
- Rental of complete, partial surfaces or according to the palette dimensions;
- Order preparation;
- Cross docking.

OUR FORCES

Advantages/asset:

- Large vehicles fleet adapted to each customer's needs;
- 5 spoken languages: French, English, Spanish, Arabian and Italian;
- WORLD IN FAST;
- Door to door service;
- A security advisor and customs agent.

Certifications and accreditations:

- ISO 9001;
- MASE (companies safety and improvement manual);
- OEA (Safety and security);
- Customs agreement;
- Authorized to transport sensitive, explosives and waste products;
- IATA (International Air Transport Association).

SATELIT-ODYSUR is a trucking and logistic company chiefly dedicated to military, aerospace and pyrotechnics sectors. Moreover SATELIT-ODYSUR is a road, sea and air forwarder, and also a customs agent.



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**Satelit
Odysur**
transport, customs, logistics

SATELIT ODYSUR

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SERT



For more than 30 years now, SERT offers a wide range of mobile field utilities in modules, trailers, containers and platforms for Defence and Security in the sectors of Catering, Sanitation and Life Camp to improve the life support in critical conditions. SERT has a high efficient quality system certified ISO 9001 and AQAP 2110 for all its business units and has the ISO 14001 for its whole sites.

IMPROVING LIFE CONDITIONS IN EXTREME SITUATIONS

MEALS PREPARATION IS A MAJOR NEED TO CONSIDER

Meals preparation is a major need to consider during people-gatherings on unsuitable sites.

Specialist of life support in all situations, SERT has designed three comprehensive range of catering equipment covering all the necessary functions: preparation, cooking, refrigeration, freezing, service, dish-washing, bakery...

Catering range:

- Cooking Modules;
- Field Kitchen;
- Field bakery;
- Cold trailer;
- Modular kitchen trailer;
- Containerized Kitchen/Cold/Bakery;
- Satellite mobile kitchen;
- Containerized catering unit.

PERSONAL HYGIENE AND LIFE CAMP

Everything about the personal hygiene contributes significantly to the health and morale of people in hard life conditions. Thanks to its long experience in the production and management of hot water, SERT offers three comprehensive range of sanitary equipment covering all the necessary functions for the personal hygiene on site.

Sanitation range:

- Hygiene Modules;
- Sanitation system (WC);
- Field Laundry;
- Shower units;
- Laundry platform;
- Containerized Sanitation unit;
- Laundry container.

A modern camp must offer comfort and well-being even in extreme geographical and climatic conditions. SERT's know-how in the field of heating, air-conditioning and canvas making allows us to produce several equipment in order to improve the accommodation in difficult conditions: space heaters, air-conditioners, rapid deployable shelters, thermal protections and multifunction trailers.

Life camp range:

- Space Heaters;
- Water heater module;
- Multipurpose trailer or platform.



SERT

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Logistic
Information
Systems

EQUIPMENT TRACEABILITY AND MOBILITY

OPTOKEY™

SURYS has developed a range of highly secure labels, Optokey™ compatible with traceability. This breakthrough integrated system based on an optical chip, combines technologies facilitating equipment track & trace. Every labels developed by SURYS can integrate a track & trace features which are compatible with one another, such as numbering, multiple 2D codes, random codes. SURYS digital know-how in a matter of digital security, opens significant opportunities such as, the implementation of online platforms dedicated to equipment identification and highly secure data management system. The Optokey™ labels are designed to withstand harsh environmental conditions and have field-proven durability with partner companies in the Defense area.

OPTOTRACE™

Easy to implement, SURYS delivers a service platform, Optotrace™, which enables benefiting from a complete traceability of the equipment, from the production line to their final destination and users. SURYS track & trace platform, Optotrace™, brings a greater transparency to the supply chain management, thereby protecting revenues and optimizing the logistics follow up. The opportunities of this platform are manifold. This aimed at improving the statistics & reports, gaining equipment user's insights, as well as valued business intelligence.

SURYS

Global reference in the field of security, SURYS offers a meticulously crafted range of innovative optical and digital solutions to authenticate, track & trace documents and products in four different markets: Identity, Banknotes, Vehicles and Brands & Products. SURYS has more than 30 years' experience in holography and is certified CWA/ Intergraf Governmental class.



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SURYS

SURYS

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SYSNAV



Flows
control



Soldier
Support



Logistic
Information
Systems

SYSNAV introduces Personal Location solutions for GPS-denied environments that require no further infrastructure to install nor maintain.

Based on SYSNAV's multi-patented magneto-inertial technology and cutting-edge algorithms, our devices are able to provide real-time 3D positioning with a sub-metric precision, both indoor and outdoor!

NEXT-GEN PERSONAL 3D-POSITIONING SOLUTION, WITH NO INFRASTRUCTURE

Our objective: to bring safety through positioning to the next level.

HIGH IMPACT FOR YOUR OPERATIONS. NO CONSTRAINTS.

- Enhance the visibility of your operations.
- Increase safety by reducing time-to-rescue.
- Operate in all environments with one technology.
- Coordinate the activities of all your agents.
- Replay the trajectories to gain further insights.

ONE TECHNOLOGY, MULTIPLE APPLICATIONS

Our core magneto-inertial technology provides high precision for multiple use cases, as our solutions are highly adaptable and can be tailored to the customers' specific needs, communication infrastructures already in place, general architecture...

Some of our major applications:

- First Responders;
- Soldiers;
- Lone Workers;
- Security Guards.

CUTTING-EDGE FUNCTIONALITIES

Our R&D team, composed of 30 engineers and doctors specialised in navigation, are constantly looking for new and innovative functionalities.

- Real-Time 3D Positioning.
- Precise Geo-Fencing.
- «Dead-man» alert.
- Orientation information.
- Unlimited number of devices.



sysnav

SYSNAV
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Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



General
Engineering
Support



Medical
Support

TOUTENKAMION GROUP

TOUTENKAMION GROUP, A KEY MANUFACTURER FOR ALL YOUR MOBILITY PROJECTS

DESIGN CAPACITIES, TECHNOLOGIES, TAILOR-MADE

Toutenkamion Group designs, manufactures and transforms truck cabs, mobile units and shelters.

With our means, our know-how and our experience, **we support you in your mobility projects**, on trucks, semitrailers, shelters, specific containers, expandable or not.

Our teams are fully listening to your needs and advising you during your projects, **from the study to the approval/qualification of your solution**. Thanks to our design capacities and the variety of technologies we master, our solutions are able to cover a wide spectrum of operational applications. The aluminum or polyester composite technologies we use for our large size panels, combined with adhesive bonding or continuous welding assembly processes, ensure **the operational efficiency, light weight, strength and durability of our products**.

LOGISTIC SUPPORT: MOBILE SOLUTIONS WIDE RANGE

- **Mastery of the technologies needed to protect people, information and equipment:** ballistic shielding, EMC shielding... all the more essential in a context of electronic war.
- **Production capacity of air-transportable and navalized shelters for the transport and protection of sensitive equipment:** drones, airborne vectors, submarine vectors, satellite elements for aerospace stations.
- **Transformation of truck cabs to be air transportable, safe and comfortable** for your staff.
- **Shelters or vehicles production for maintenance and logistics, with optional services, to be as close as possible to the theatre of operation:** MRO workshops, Fab Lab workshop, interface for handling shelters or specific packaging, annual contracts for the Army's mobile resources.
- **Medical products which can be deployed nearest to soldiers:** mobile care units for the Army Health Service as mobile hospital, blood donation, dental...; integration of equipment to detect radio-contamination for the Army Radiological Protection Service for the nuclear, radiological, biological and chemical threat; mobile scanner; analysis laboratories.

Changes in war strategies mean that today's armies must optimize their mobility: ultra-fast deployment times, severe environmental constraints, autonomy, equipment as close as possible to the theatre of operations, transport of sensitive equipment, comfort, safety and health of personnel on operations. Our achievements provide innovative and quality solutions to answer these requirements.



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TK Toutenkamion
Group

TOUTENKAMION GROUP

Stéphane GIRERD

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UTILIS

With over 20 years of experience, UTILIS is specialized in the development of innovative solutions with unequalled rapidity of deployment, offering products tailored to the specific needs of each of our customers. We are one of the world leaders in providing tactical, semi-permanent and permanent solutions for camps in the military, civil security and NGO sectors.



Maintenance
- Repair -
Overhaul
(MRO) /
Evacuation
and Recovery



Soldier
Support



Medical
Support

CAMP TACTICAL SOLUTIONS

SHELTERS, HOSPITALS, COLPRO, DECONTAMINATION

UTILIS benefits from an expertise based on the supply of a wide variety of camps in very varied environments (Antarctic / desert). We have many systems in-service with the main Ministries of Defence and the Interior, throughout four continents (NSPA, USA, South America, Asia, Europe). Our team is made up of people with advanced skills to enable the deployment of complex camps on strict terrain. Our range of products extends from individual shelter of 5m² to camps that can accommodate more than 2000 people. We offer all the services associated with this type of camp: operational maintenance, staff for cleaning the premises, logistic, assembly team.

QUICK AND EASY DEPLOYMENT

- Turnkey solutions: supply, delivery, assembly, repatriation, operational maintenance of facilities.
- Tactical tents that can be quickly erected without tools or handling equipment. Tested in extreme conditions. Assembly of a TM or TMS shelter in less than 4 minutes.
- Possible interconnections between the different models, endless configuration possibilities.
- Supply of field hospitals and emergency modules including the infrastructure part and all medical equipment.
- COLPRO solutions. Tailor-made shelters in case of CBRN risk coupled with a personal decontamination system.
- Decontamination units capable of treating 20 to 80 people per hour in the most extreme conditions.
- Custom-made hangars. Patented innovation allowing their assembly without crane or handling equipment.
- Supporting our customers in all activities related to the deployment and use of our equipment: Training, Maintenance, Operational Support and Documentation.



UTILIS SAS
Maud MRAD
ZAC Eurotransit
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The French land defence and security
industry association

GICAT, a professional group, created in 1978, has over 270 subscribers, corporations, midmarket companies, SMEs and startups. These members cover a wide range of industrial, research, service and consulting activities for military and civil organizations, of national or international scope, involved in land and/or airland security and/or defence.

The international ambitions of GICAT are reflected in its international exhibitions, EUROSATORY in France, Expodefensa in Colombia, ShieldAfrica in Ivory Coast, and Platinum Security Exhibition in Monaco, organised by its subsidiary, COGES, and a certain number of other defence and/or security exhibitions overseas.



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