# 2021-2022 Catalogue Spanish Defence Industry





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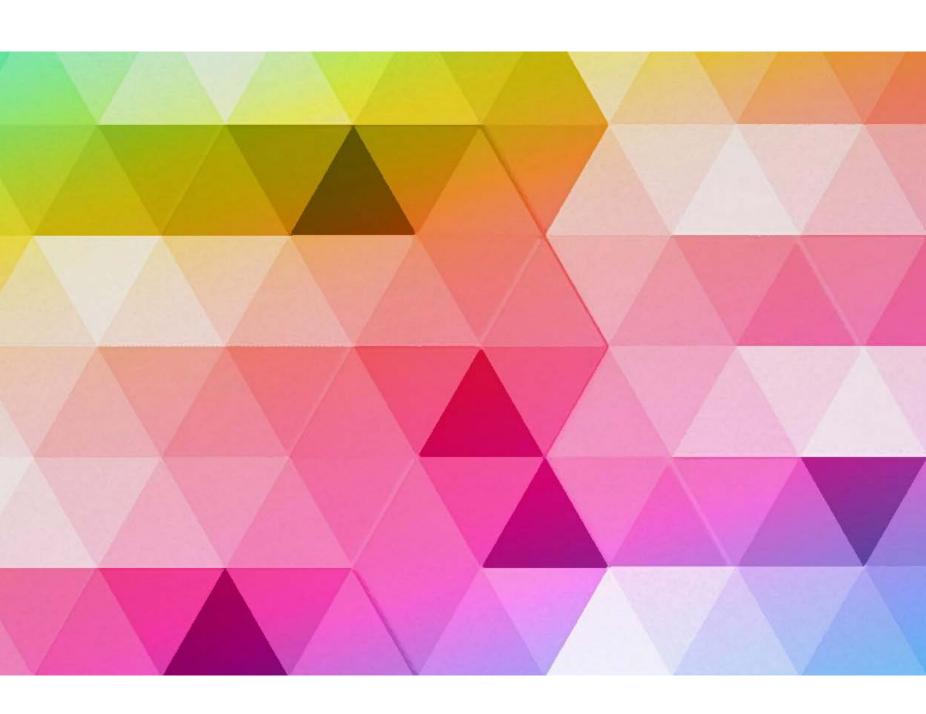
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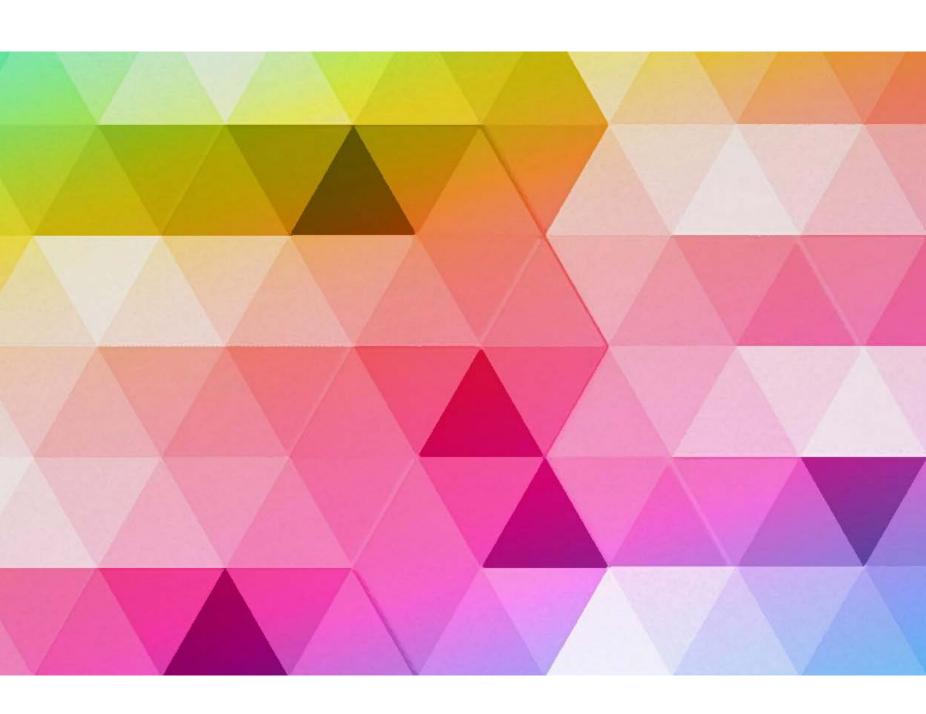






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## Presentation «2021-2022 Spanish Defence Industry Catalogue»

## Secretary of State for Defense

It is with great pleasure that I present this fourth edition of the "Spanish Defence Industry Catalogue 2021-2022", prepared by the General Directorate for Armament and Materiel, at a time that is so crucial for our future, and specifically for the future of our economy.

The period covered by this catalogue is marked by a crisis generated by the pandemic that struck us in 2020 and whose effects are ever-present. The Ministry of Defence and the Armed Forces have made a huge effort in the fight against the virus, providing the support required by the different authorities. It is only right to recognise and thank the Spanish Defence Industry for its support, being able as it was to switch its production lines to manufacture healthcare material and put its logistics capabilities to the common good, clearly demonstrating its commitment to society, perfectly in line with the principles of the Ministry of Defence.

The amount of companies that wanted to be part of this publication, the only official document of the Ministry of Defence in which their main features are included, and which is circulated and has an impact both within and outside Spain, encourages us to look to the future with optimism and invites both public and private sectors to work together to find synergies in order to leverage the opportunities offered by the environment.

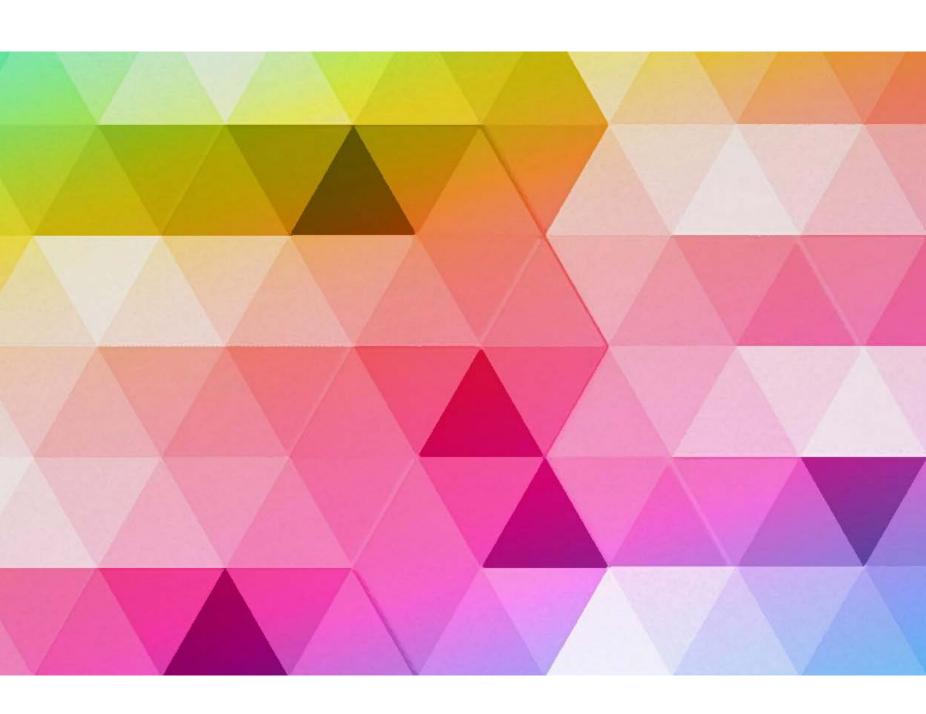
In this regard, Europe has become the guiding beacon for the years to come. On the one hand, the extraordinary measures adopted by the European Union to overcome the social and economic crisis caused by COVID-19 should enable not only the current crisis to be overcome but should also allow our economy to be modernised and transformed into a production model for the 21st century. On the other hand, we also have the European Defence Action Plan which will be developed through the European Defence Fund.

This year sees the holding of the second edition of the International Defence and Security Exhibition (FEINDEF), organised by Spain. The event will be a magnificent showcase for our defence industry and will constitute a visible support platform offered by the Ministry of Defence to the sector's industry.

I trust that the new edition of the "Spanish Defence Industry Catalogue 2021-2022", published in Spanish and English, in paper and digital format, will help to disseminate the industry's capabilities internationally, particularly in those geographical areas in which Spanish industry is less known and is currently particularly active.



Esperanza Casteleiro Llamazares Secretary of State for Defence





### Introduction



National Armaments Director

The fourth edition of the Catalogue of the Spanish Defence Industry comes to us at a time marked by the impact of COVID-19 at a global level, to which the Defence sector has not been a stranger. Thus, I would like to highlight the virtues and strengths of the national defence industry, emphasizing its importance within the industrial sector of our country.

Therefore, it should be noted that the defence industry is one of the components of the national industrial sector with the highest growth in recent years, showing three key points: i) the high dual nature of the systems developed by that industry; ii) its strong technological and innovative component, which favours the creation of highly qualified employment and increased competitiveness and iii) its driving effect on a good number of sectors of the auxiliary industry.

Notably, the internationalization and innovation effort carried out by our industry for years, even more, when the requirements of our internal defence market impose that the sustainability of the sector must necessarily go through the search for foreign markets and international cooperation. At this stage, the Spanish industry has firmly committed to the cooperation within the EU, both in relation to the projects agreed within the Permanent Structured Cooperation (PESCO) and in the initiatives derived from the European Defence Action Plan (EDAP).

In order to support this internationalization effort, the DGAM will continue fostering and strengthening the relationship with allied countries, favouring the knowledge and rise of cooperation opportunities between Spanish companies and those from other countries, and this is where it makes sense to have a tool like this catalogue.

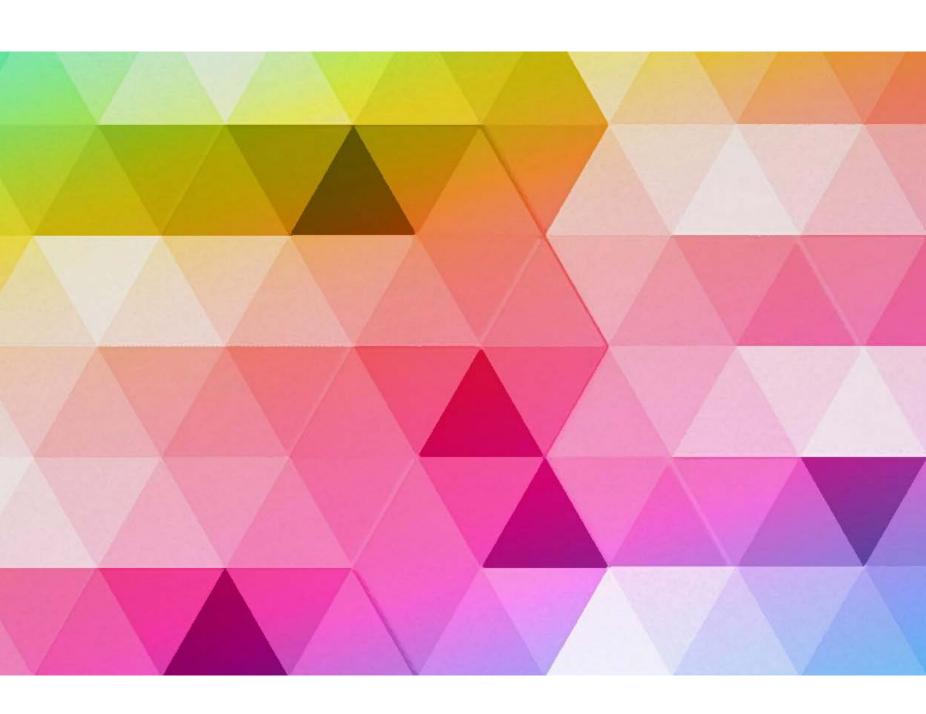
The catalogue allows the dissemination of the capabilities of our industry and it is an excellent showcase to facilitate its entry into international markets, either as exporters or as technological partners in cooperative programs.

Similarly to previous years, this publication will be distributed to Spanish defence attachés and advisers, and also to foreign attachés accredited in Spain. It will also be available in all international events organized or participated by the DGAM Foreign Support Office.

I would like to finish by highlighting the organization in Madrid, next November 2021, of the Second edition of the International Defence and Security Fair (FEINDEF) which, with the institutional support of this Ministry, it represents a very important milestone in the consolidation of the role of Spain and its defence industry in the international environment.



Admiral Santiago Ramón González Gómez National Armaments Director





### **Editorial Comment**

### International Relations Under Directorate

Foreign Support Office (OFICAEX)

This catalogue was created to respond to a need identified by the Foreign Support Office (OFICAEX) of the DGAM's Deputy Directorate for International Relations: the need for an official, public and free-of-charge publication that would make it easier to publicise and promote the capabilities of the Spanish defence industry in foreign markets.

Such a publication would have to provide verified and unclassified information on the capabilities of our industry in a user-friendly format, thus facilitating its dissemination as widely as possible. Another essential requisite was its impartiality and openness to the entire industry of the sector.

In line with these parameters, which are still valid, we present today what is already the fourth edition of the "Catalogue of the Spanish Defence Industry 2021-2022" (former editions are from 2016, 2017-2018 and 2019-2020). It is therefore a fully consolidated publication in its specific field.

The catalogue has been very well received in all forums in which it was presented, both through our Defence attachés and counsellors, who carry out their work in our embassies and in international organisations, and also through the activities developed by the OFICAEX in its various international undertakings. It has thus proved to be a very useful tool in the institutional support to the internationalisation of our defence industry, for which the OFICAEX is responsible.

As indicated, the catalogue is open to the inclusion of all companies which, within the "universe" of the Spanish defence industry, comply with the following requirements:

- They are listed on the DGAM Register of Companies and hold a valid certificate to this effect.
- They own the products or services on offer, which are manufactured at facilities located in Spain.
- They have made direct or indirect sales in the defence sector, either in Spain or abroad, in at least one of the past five years.
- They have reached a minimum turnover.

It is organised by main sectors of activity and contains a single fact sheet for each company, which provides a brief description of its activity and a selection of its most representative products or services for export.

The information contained in this catalogue, as at 31 December 2020, has been provided by the companies and validated by the DGAM. It should be noted that, taking into account new and removed entries for various companies, the number of those participating in this edition is similar to that of the edition from two years ago, which demonstrates the resilience of the defence sector in such a difficult period for the Spanish economy as a whole.

The catalogue has a double entry format: by main sector and by subsector of activity, which enables all of the companies with capabilities in a specific sector/subsector to be located easily. There is also an index, listing all of the companies included in alphabetical order.

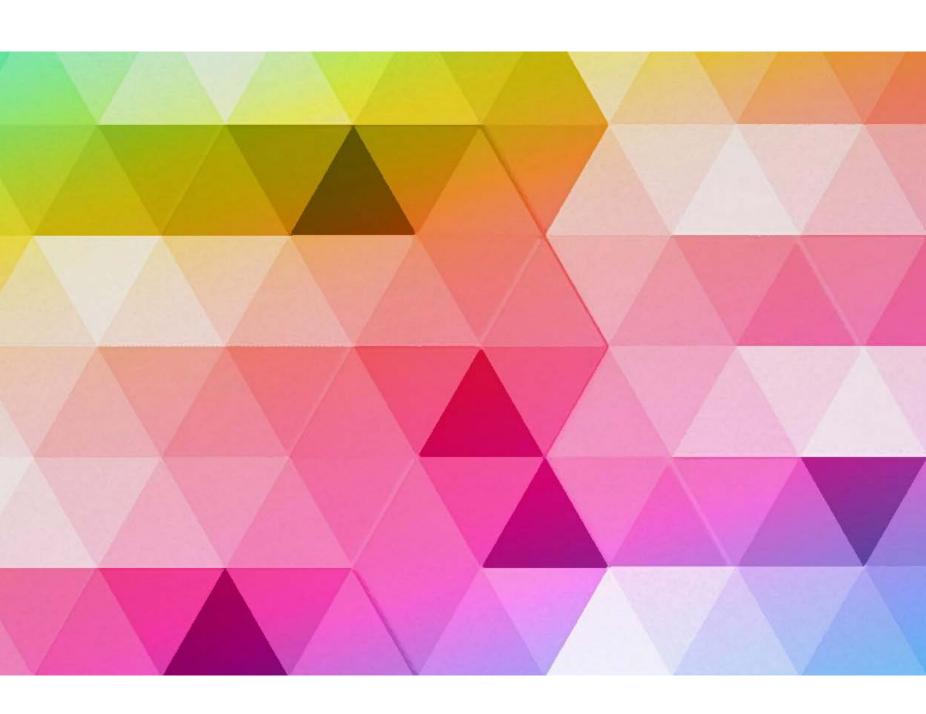
The main associations of the sector also participate in the catalogue: TEDAE and AESMIDE, whose associate companies, in terms of turnover, account for most of the Spanish defence industry.

The main financial figures for the Spanish defence industry are also shown, obtained from the latest data available in the DGAM Register of Companies, and the addresses of the Spanish defence attachés and counsellors have been updated.

The catalogue is published in Spanish and English, both in paper and digital format via QR code access and will also be accessible via the following link: https://publicaciones.defensa.gob.es/

To conclude, we would like to thank the DGAM's Deputy Directorate for Inspection, Regulation and Industrial Strategy of Defence and the Deputy Directorate for Publications and Cultural Heritage of our Ministry of Defence for their support, collaboration and firm commitment to each new edition of this catalogue.

Any queries in relation to this publication may be sent to the corporate email address of OFICAEX: dgam.rein.apoyoext@oc.mde.es





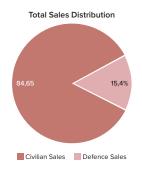
## Spanish Defence Industry

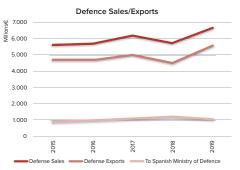
Under Directorate for Inspection, Regulation and Defence Industrial Strategy

The Defence Technological and Industrial Base (DTIB) is **key to national security and sovereignty**. It is a **strategic activity** the development of which also generates significant returns for society in the form of wealth, qualified employment and technological innovation. The Spanish DTIB is hugely dependent on the momentum generated by the main contractors. Its supply chains include a notably large amount of SMEs (76.3% of Spain's defence industry companies), which provide important essential capabilities, and other suppliers of equipment, components and services that make up the auxiliary industry.

The Ministry of Defence has 509 companies listed on the Register of Companies of the General Directorate for Armament and Material (DIC 2020), of which **354 supplied products and services in the defence field throughout 2019**, the most recent year for which aggregate data are available.

The total volume of civilian and defence sales made by the companies on the Register rose to €52,438M in that year, of which 15.4% constitutes the supply of defence products and services. The **defence industry's turnover amounted to €6,654M.** International sales, including cooperative programmes, totalled **84% of the business**. This international activity has been consolidated and is growing: we have gone from exports of €2,349M in 2011 to €5,033M in 2018 and €5,575M in 2019.





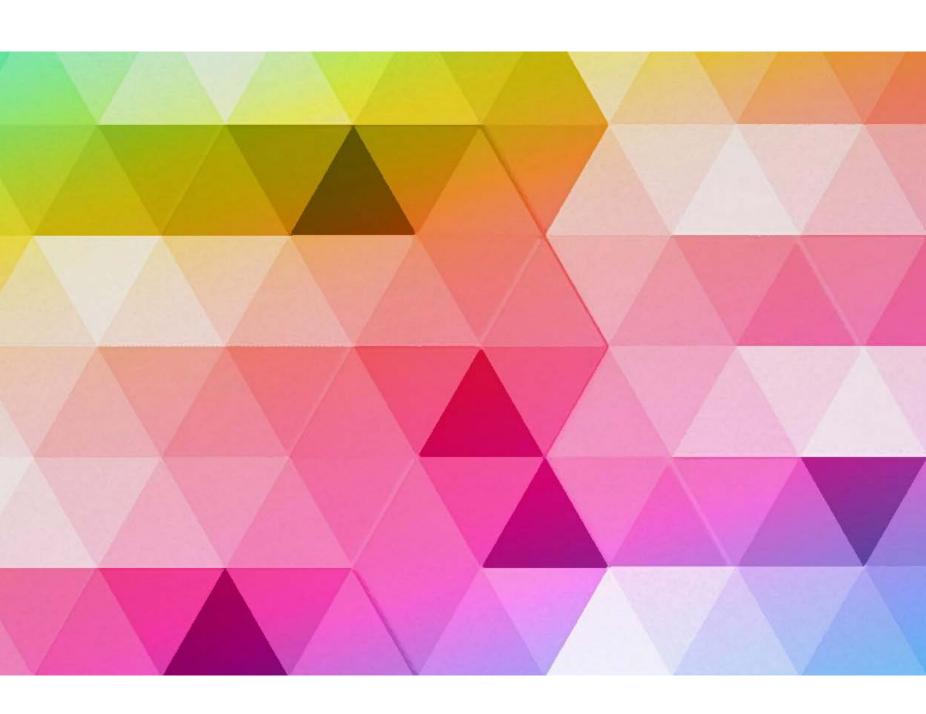
The defence industrial sector has generated more than **23,500 direct jobs** in this period, and a further 57,000 indirect and induced jobs in activities exclusive to defence<sup>1</sup>.

The defence industry, apart from being the supplier of systems and services for our Armed Forces, contributes to meeting our commitments within the framework of the European Union and NATO. At European level we are currently at a critical turning point where the European map of the sector's industry is being defined. The **defence cooperation initiatives** of the European Union continue to grow. In 2019 new projects were accepted from the Permanent Structured Cooperation (**PESCO**); in November 2020 the EDA carried out the first Coordinated Annual Review on Defence (**CARD**), which identified six focus areas for joint European development efforts; while December 2020 saw the approval of the European Union's Multiannual Financial Framework 2021-2027 (**MFF**) – encompassing the **European Defence Fund** (EDF) – which will allocate almost €9,000M to fund collaborative research projects and supplement Member States' investment, co-funding the costs of defence capability development. A **good positioning of the national industry** is therefore essential as this will affect the future opportunities of Spanish companies in the European and international environment.

The defence industry, like many other sectors of the productive economy, is suffering from the effects of the pandemic and the economic crisis caused by COVID-19, although, as its liquidity is based on consolidated pluriannual public projects (such as large armament programmes), the more severe consequences will only become apparent in the mid- to long-term. However, the effects of the crisis vary depending on the subsector, the size of the companies, the lines of activity or product, and the dependencies of their supply chains or the nationality of the customer portfolio, among many other factors.

We are thus at a crucial point in time in which we need to focus all efforts on maintaining and strengthening the key technological and industrial capabilities, the result of so many years of investment by the Ministry of Defence and national industry.

<sup>1</sup> National Statistics Institute (INE) Input-Output tables, PwC analysis: Claves de la competitividad de la industria española (The keys to the competitiveness of Spanish industry), p.16, according to which Spanish industry generates 1.03 direct jobs and 0.40 induced jobs for each directly generated job.





## Business associations of the sector

Spanish Association of Defense, Security, Aeronautics and Space Technology Companies (TEDAE)



C/ Profesor Waksman, 14 bis, 1ª planta 28036 Madrid Spain Phone: +34 91 700 17 24 www.tedae.org

info@tedae.org

### Industries committed to the future.

The TEDAE business association currently groups 85 companies that develop cutting-edge technologies for defence, aeronautics, security and space. Among them, there are large and medium-sized companies, main contractors and system suppliers, along with others of smaller size, but highly specialised, which share the same commitment: the generation of advanced technology, the talent of their workers and the social return on investment.

The companies integrated in TEDAE represent a factor of stability, energise the economy and foster to grow from the constant commitment to innovation and high technology.

The Spanish Association of Defense, Security, Aeronautics and Space Technology Companies (TEDAE) was founded in 2009 with the aim to represent the interests of its companies and foster their development in these four industrial areas.

On a daily basis, TEDAE is oriented to:

- Foster the development of their companies.
- Promote the inclusion of these areas in the development of industrial strategies.
- · Support the Spanish design and manufacturing.
- Encourage investment in technology and innovation.
- Encourage the development of business opportunities in Spain and in priority international markets.

One of the main features of the companies associated with TEDAE is the significant effort they make every year to invest in R+D+i, thus being aware that technological leadership is their most competitive feature.

The investments and efforts made in the last decades have situated Spain among the countries of the world with an industrial structure present in the complete product cycle: design, manufacturing, integration and sustainability. The Spanish industry has a wide range of products in all activity segments: land, naval, air, cybersecurity and space.

The companies integrating TEDAE have also a large experience in international cooperation programs and the ability to lead complex projects that compete in global markets, where they have already reached a relevant position.

The target of TEDAE is to actively collaborate in fostering the Spanish industrial fabric, being the voice of its industries and supporting them, with our Ministry of Defence, in promoting cooperation with other international companies and entities.

TEDAE is the platform where the common positions of its companies are established and is a member of the CEOE (Spanish Confederation of Business Associations) and of the European ASD (Aerospace and Defence Industries Association of Europe), recognised by the European Commission as the main interlocutor and industry representative.

Association of Contractors with Public Administrations (AESMIDE)



C/ Velázquez, 11, 2° izq. 28001 Madrid Spain Phone: +34 91 578 43 43 www.aesmide.es internacional@aesmide.es

### Introduction

AESMIDE is a multi-sector and non-profit partnership. Its main goal is to foster its associated companies by promoting and defending their capacities in national and international markets. AESMIDE was born in 1984 in order to serve as an interlocutor for service and supply companies before the Spanish Ministry of Defence. Currently, it also works with other Public Administrations in Spain and countries.

### Mission

The mission of AESMIDE is to provide constant and close support both to its associates and the Public Administration, to which it provides concrete solutions. Likewise, it creates adequate channels for its companies to enter into communication with public entities of all kinds, thus establishing a useful and profitable dialogue for both parties.

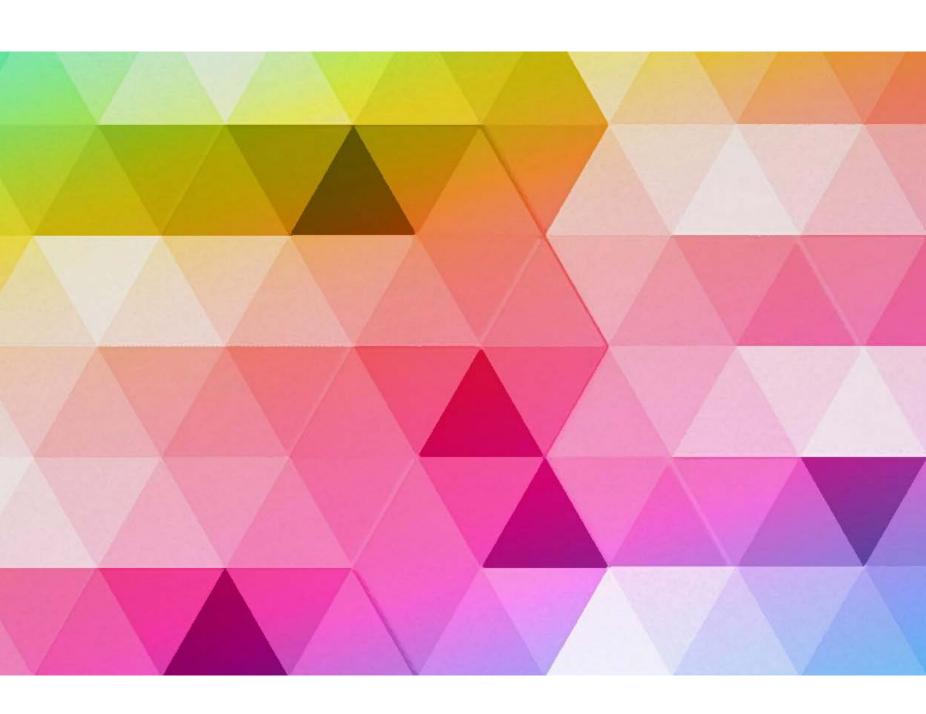
### Goals

It is the goal of AESMIDE to unite in the association of the interests of the private and public sector, in order to foster cooperation between both parties, in the pursue of the development and mutual benefit, the defence of common, professional and economic interests of the associative group, thus serving as an interlocutor between the private industry, supplies and services, and the Public Administration, representing the associates before the national and international organizations of the sectorial and territorial scope that correspond to their activity to finally foster all activities that are deemed useful to these ends.

### **AESMIDE Companies**

The associated companies in AESMIDE focus on one of the most important parts of the defence industry, which is the quality of life of the soldier and sailor. They ensure the supply chain so that the Armed Forces can perform their work satisfactorily. Together, the capacities of the 65 companies associated with AESMIDE meet the needs of the Armed Forces and work in the following areas of activity:

- Food supply
- Personal equipment and clothing
- Management, integral maintenance and energy services
- Infrastructures, equipment and facilities
- Campaign logistics
- Distribution logistics
- Health
- Special services
- Engineering solutions for defence
- Information technology and systems





## Index of companies by sector

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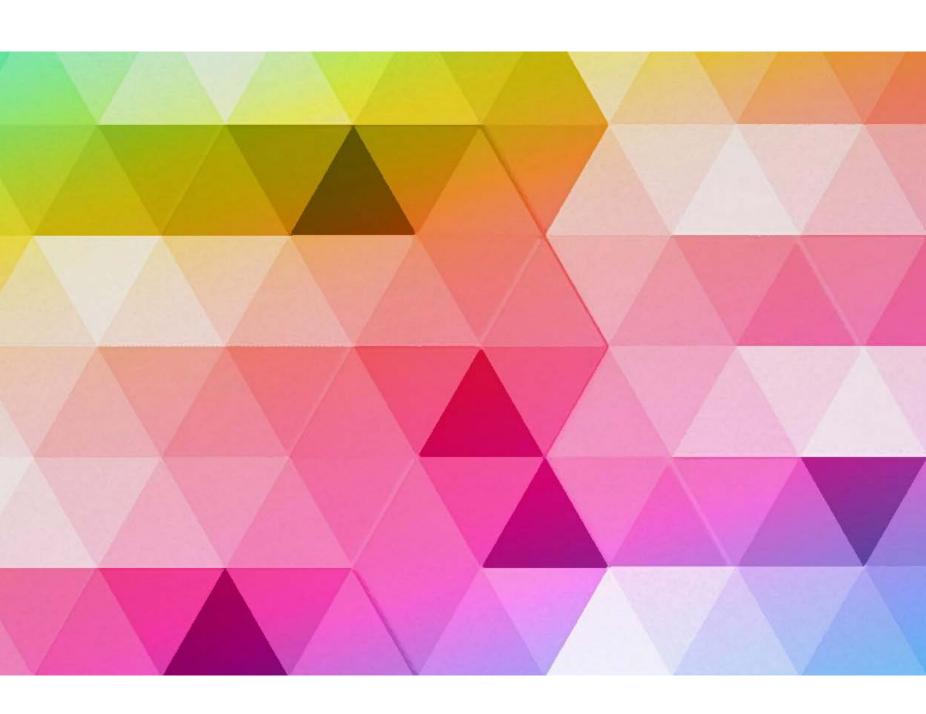
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Land

Naval

Aerospace

		Armament & ammunition									Electronics, communications & ICT									Logistics, Ancillary & Services										Consulting & engineering	
Maintenance & life cycle support	Ancillary industry & spares parts	Armament	Ammunition	Missiles	Demilitarisation	CIED	Simulation	Maintenance & life cycle support	Ancillary industry & spares parts	Radars	Electronic warfare	C4ISR	Cyber defence	Surveillance & security	Systems & equipment	Simulation	Maintenance & life cycle support	ICT	Field Logistics	Infrastructures	CBRN	Uniforms & equipment	Food	Health & medicine	Ancillary industry & machinery	Services	Consumer goods	Security services	Others	Consulting & engineering	
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# Land Sector



# 40

Parque Empresarial Principado de Asturias, parc. 12 33417 Avilés (Asturias) Spain Phone: +34 985514450 www.danima.es

# DANIMA INGENIERÍA AMBIENTAL, S.A.

Land

Systems & equipment

Services, logistic & auxiliary Auxiliary industry and machinery

DANIMA is a company that specialises in the project development for, engineering of and manufacturing of equipment. We manufacture logistics and tactical equipment: multi-purpose platforms (payload and rescue) VEMPAR, trailers, ISO container handling systems, tippers, etc. All equipment is NOC approved.

VEMPAR - Multi-Purpose Platforms (Payload and Rescue)

VEMPAR tactical ATV - NOC 3830-33-2076766.

Required vehicle: Tactical 8x8 - 32 Ton/M.A.M.

VEMPAR Logistical ATV - NOC 3830-33-2076765.

Required vehicle: Logistical 8x4 - 32 Ton/M.A.M.



Certifications ISO 9001 PECAL / AQAP 2110 ISO 14001

Land Sector

### **Tactical Trailer**

Tactical trailer model REMTT08 NOC 2330-33-2075384. The REMTT08 trailer is designed to be part of the VEMPAR tactical system for operating in all types of terrain.



# **ICHS**

ISO container handling system for VEMPAR tactical and logistics. NOC 3830-33-2076770.

ICHS allows handling 20' or 8' or 8.6' ISO containers without using a platform, equipped with forks to fasten the container during transport.



# **Loading Platform**

Multi-purpose platform. NOC 3990-33-2076769.

Recovery and transport of vehicles such as BMR, BLR, TOA and VEC, and any other vehicles with a weight of up to 17,500 kg and a length of up to 5,600 mm.



# **Tipper**

Tactical and logistical 3-axle tipper trucks. NOC 2510-33-2076768. The DN13 model incorporates tipping equipment and an openbox bed with a nominal capacity of 13.5 m<sup>3</sup>.





Ctra. de Argamasilla de Alba, km 1,9 13700 Tomelloso (Ciudad Real) Spain Phone: +34 926510586 www.els-industries.com

### **ENGINEERED LAND SYSTEMS, S.L.**

### Land

Systems & equipment

Land Sector

ELS is a Spanish company that specialises in designing and manufacturing customised vehicle bodies and systems for military use: troop carriers, cargo boxes, anti-roll seat modules, mobile workshops, tankers, command posts, mobile offices, etc. form a part of our catalogue. Audited according to the ISO 9001 and AQAP 2110 standards, our engineering team uses the most advanced design software, subsequently checking designs using digital simulation techniques that guarantee their reliability. Currently, we export more than 85% of our production. Our vehicle bodies are present in more than 25 countries, and they have therefore been tested in real situations in hostile terrain and scenarios. We provide assistance throughout the product life cycle to ensure operability in any part of the world. All the necessary documentation is included.

Certifications ISO 9001 PECAL / AQAP 2110

# **Troop Carrier Bodies**

ELS's troop carriers are synonymous with functionality: in a single vehicle body, people, goods or ISO containers can be transported, making use of all the advantages offered by this optimum design. Extras such as tarps, anti-roll seats, cranes and winches can also be added.



### **Mobile Workshops**

With ELS's workshops you will be able to effectively perform complete maintenance and repair work in the most adverse locations and situations. No breakdown will prevent you from completing your mission. Their design offers strength and mobility, and they can be configured with the functions that best suit your objective. All options are possible, from a standard workshop for replacing tires to one that includes accessories such as a lift platform or a crane.



### Refueller

ELS designs and manufactures a wide range of aircraft refuellers with diverse features. in accordance with current regulations applicable to both military and civilian needs. All the incorporated components belong to well-known brands in the market, and a significant part of the equipment is developed and manufactured in-house. Configurations can be adapted to the end-user's requirements using rigid trucks or semi-trailers according to the type of fuel or capacities and whether they are for airport or off-road applications.



# Modular Anti-roll Seating System

In order to guarantee safety and comfort, we have reinvented our module transport system to offer you protection against overturns and head-on crashes due to veering off a road, due to landslides or due to or any other unforeseen event. Our ROPS04 system is equipped with 4-point belts and side protection for the head and shoulders. It also has an ergonomic design that allows housing crew equipment; manufactured out of materials that reduce the vibrations transmitted from the terrain to the occupant.



Vía de los Poblados, 3, Edif. 7-8 28033 Madrid (Spain) Phone: +34 915850110 www.gdels.com

# GDELS-SANTA BÁRBARA SISTEMAS, S.A.

### \_and

Vehicles; systems & equipment; maintenance & life cycle support

Armament and ammunition Armament; ammunition; missiles; maintenance & life cycle support

Services, logistic & auxiliary Consumer goods

Santa Bárbara Sistemas is a Spanish company that employs more than 700 highly skilled employees at four work centres especially dedicated to the Defence industry. SBS's knowledge and industrial infrastructure give it unique technological capabilities in Spain and have made it a European benchmark for RDI and production in the areas of mobility, protection, workload, growth, firepower, systems integration and ILS. For more than 40 years, Santa Bárbara Sistemas has been leading land programmes for the Armed Forces of Spain and for other NATO and no-NATO countries with products such as ordnance, weapons systems, missiles and wheeled and tracked armoured vehicles, including the BMR, the Pizarro, the RG-31 and the Leopard 2E battle tank, as well as the SIAC artillery systems.

### 8X8 VCR Piranha 5

The 8x8 VCR Piranha 5 is a wheeled combat vehicle with the best mobility, protection and growth potential in the market. The entire system is designed so that it can be updated throughout its useful life in order to integrate new protection technologies as they are developed or to respond to new threats.



Certifications ISO 9001 PECAL / AQAP 2110

Land Sector

# ASCOD (Pizarro) Tracked Armoured Vehicle

The ASCOD vehicle is one of the best Infantry Fighting Vehicles of its class (31 to 42 tonnes), a tracked combat vehicle designed to operate in conjunction with main tanks. The Spanish version of the ASCOD is the Pizarro, the Austrian version is the ULAN and the English version was renamed the AJAX. The ASCOD has served as the basis for developing the AJAX Programme.



### 155/52 SIAC Howitzer

Santa Bárbara Sistemas designs and manufactures a wide range of armaments and ammunition. The towed 155/52 SIAC howitzer has been developed for fire support and high-performance protection missions, with a low maintenance cost and a reduced crew. It is in service in the Spanish Army and in the armies of other countries.



# Missile Warheads and Rocket Motors

Santa Bárbara Sistemas manufactures warheads and rocket motors for the Meteor, Mistral and Spike missiles. It also assembles Spike missiles.



# **AJAX Special Vehicle**

The English version of the ASCOD was recently renamed AJAX.





# GRUPO DE INGENIERÍA, RECONSTRUCCIÓN Y RECAMBIOS JPG, S.A.

### ₋and

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Armament and ammunition
Armament

Services, logistic & auxiliary Auxiliary industry and machinery; others

# 46

C/ San Norberto, 42 28021 Madrid (Spain) Phone: +34 917109082 www.grupojpg.com

Distribution and after-sales service of original Santana spare parts and spare parts for wheeled and tracked military vehicles, especially Nissan, Iveco, Kynos, Pizarro, M-60 and BMR/VEC. Engineering projects, maintenance, reconstruction and modernisation of wheeled and tracked military vehicles, special machinery and test benches, especially Kynos and Pizarro, in addition to special tanks of the M-60 family and Nissan and lveco vehicles, which includes the testing of power packs of up to 2,000 HP on test benches. Design, supply and maintenance of crane bridges, hoists and lifting systems: engineering, manufacturing, installation, maintenance and spare parts.

# 4<sup>th</sup> Echelon Maintenance of the Pizarro

Comprehensive maintenance of Pizarro tanks, including the assemblies and sub-assemblies of which it is composed, such as the engine, gearboxes, final drives, hull, electrical system, turret, hydraulic system, etc.



Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110

# 3<sup>rd</sup> and 4<sup>th</sup> Echelon Maintenance of the VLPD, CZ and CREC Special Tanks

- Maintenance and repair of the VLPD, CZ and CREC special tanks, including the assemblies and sub-assemblies of which they are composed, such as the engine, gearboxes, final drives, hull, electrical system, turret and hydraulic system.
- Comprehensive maintenance of Pizarro tanks, including the assemblies and sub-assemblies of which it is composed, such as the engine, gearboxes, final drives, hull, electrical system, turret, hydraulic system, etc.

## 3<sup>rd</sup> and 4<sup>th</sup> Echelon Maintenance and Modernisation of the BMR/ VEC

- Maintenance, modernisation and repair of the complete BMR vehicle, including the assemblies and sub-assemblies of which it is composed, such as the engine, gearboxes, transmissions, hull and electrical system.
- Comprehensive maintenance of Pizarro tanks, including the assemblies and sub-assemblies of which it is composed, such as the engine, gearboxes, final drives, hull, electrical system, turret, hydraulic system, etc.



# Development and Outfitting of Shelter

Design, development and manufacturing of Shelter and special containers.



# Test Benches and Vehicle Technical Inspection Equipment

Design, manufacture and assembly of test benches.



**DEFENCE VEHICLES** 

# 48

Avda. Aragón, 402 28022 Madrid (Spain) Phone: +34 903252700 www.iveco.es

# IVECO ESPAÑA, S.L.

### Land

Vehicles; systems & equipment; maintenance & life cycle support

IVECO designs, manufactures and markets light, medium and heavy commercial vehicles; quarry and construction vehicles; urban and intercity buses; and special vehicles for applications such as firefighting, off-road missions and military and civil defence vehicles.

IVECO Defence Vehicles is the business unit that specialises in the development, production, marketing and service of products designed for the world's armed forces, such as logistics, tactical, armoured and multi-purpose vehicles with various levels of protection. These vehicles use components of the powertrain system of FPT Industrial.

# **Heavy Vehicles**

A family of vehicles designed to satisfy any need in all kinds of terrain, while providing maximum safety, comfort and performance. A wide range of configurations: rigid/tractor versions, 2- or 4-axle models, partial or all-wheel drive, twin or single cab and powers ranging from 310 to 500 HP. Designed to meet military requirements, these vehicles can incorporate a cab armour kit that allows them to work in high-threat areas.



Certifications ISO 9001 ISO 14001 OHSAS 18001 PECAL / AQAP 2110



# **Light Vehicles**

The DAILY range is the most complete in its category. From 3.5 to 7 tonnes, van type or cab chassis, diesel or CNG, 6 speeds, double- or single-wheel, 2x4 or 4x4 drive, 2 types of cabs (double or single) and power of up to 210 HP. It offers more than 11,000 combinations, one for each specific requirement.

Engines work cleanly and efficiently, thus contributing to improving their sustainability credentials.

Possibility of HI-MATIC automatic transmission equipped with advanced software that optimises consumption.

Notable for the wide variety of equipment options and the ease of maintenance.





# 50

Autovía A-4, km 171 13200 Manzanares (Ciudad Real) Spain Phone: +34 926610504 www.marzasa.es

# **MARZASA - MARTÍN ZABALLOS, S.A.**

Land Systems & equipment Manufacturing of fuel tankers, water tankers, tanker containers, aircraft refuelling units, general cargo trailers, water tanker trailers, fuel tanker trailers, refrigerated trailers, storage trailers, workshop trailers, ammunition transport trailers, firefighting trailers and machine transport trailers. Special vehicle bodies for troop transport, palletised cargo and shelter.

# **2-T General Cargo Trailer**

1,500/2,000-kg all-terrain general cargo; folding and removable rear door; removable arches and tarp; adjustable and foldable support post; NATO towing eye; pneumatic service brake; parking brake; NATO lighting installation; spare wheel and support.



Certifications PECAL / AQAP 2110 ISO 9001

Land Sector

# **Vehicle body on Truck**

Folding and removable seats for troop transport; folding and removable, side and rear doors; arches and detachable awning; anchor for NATO II and ISO 10-ft shelter transport.



### **Fuel Tanker on Truck**

Tanker for the transport and supply of fuel; equipped with litre meter, hose and service nozzle; manufactured out of carbon steel or aluminium; hose for gravity discharge.



# **Tanker Container for Fuel**

Independent pump integrated on the container; possibility of supply for light and heavy vehicles; gravity discharge; approved for the transport of goods by road, rail and ship; 20-ft ISO container, stackable up to three high.



M05-G General Cargo Trailer

500-kg general cargo trailer.



### Land

Systems & equipment; auxiliary industry & spares

Electronics, communications & ICT Systems & equipment; simulation; ICT

Services, logistic & auxiliary Auxiliary industry and machinery; others

Consulting & engineering Consulting & engineering

Originating in the world of motorsports over 30 years ago, Piedrafita has been participating in major national and international defence projects for over 20 years. The company's multidisciplinary and highly qualified team allow it to offer completely innovative solutions in its three main business areas: kinetics, prognostics and defence electronics (under the brand, DefPower). Piedrafita's solutions can be found in many of the most important current tracked platforms.

At its two industrial plants, the company invests in the development of its own products, while collaborating with the biggest players in the global market, thereby making Piedrafita a trusted company of reference for the biggest integrator's when developing the most technologically complex projects.

# **Hydraulic Rotary Dampers**

Whether new vehicles, retrofits or upgrade programmes, Piedrafita's hydraulic rotary dampers offer the best characteristics in the market. Valid for a wide variety of vehicles, Piedrafita's dampers have been optimised to work under the harshest environmental conditions (-47° to +200 °C), without detriment to performance and allowing a completely maintenance-free lifetime. With a highly optimised weight and small dimensions, Piedrafita's suspensions can be adapted to any vehicle's specific requirements.



Certifications ISO 9001 ISO 14001

### **Power Distribution Units**

Piedrafita's PDUs (Power Distribution Units) employ solid state technology, thereby allowing a W/kg ratio that is over 10 times greater than conventional solutions. Distributed under the brand, DefPower, there are currently three versions on the market: MILPDU32-24 DP MkII, MILPDU32-24 SP MkII, and MILPDU24-24 SP MkII Lite. The products, which are 100% configurable through software, have both Def-Stan and MIL-STD certifications, as well as Ethernet and CAN connections, thereby allowing integration with any data acquisition and predictive maintenance systems.



# **Vehicle Prognosis - Nebula**

Piedrafita's new Health and Usage Monitoring System (HUMS) is here. Piedrafita's Prognostics has developed a disruptive new product focused on performing predictive maintenance. With its "plug-and-play" philosophy, the different variants of HUMS allow users to understand a vehicle's real-time status and needs and to create fluent communication between soldier and vehicle. It can be used in a wide range of vehicles, from existing ones to newly created ones, and its characteristics can be tailored to the individual needs of each one.



# **Vehicle Engineering Services**

In addition to its state-of-the-art products, Piedrafita offers a wide range of services:

- Command and control ballistic software integration.
- Rugged on-board testing: data acquisition under extreme, harsh and real operating conditions
- Built-to-spec product development tailored to the customer's unique and specific needs and requests.
- Lightweight development: weigh reduction and optimisation of products.





Pol. Bazkardo, Ctra. N-1, s/n 20140 Andoain (Guipúzcoa) Spain Phone: +34 943304204

www.sapa.es

### **SAPA OPERACIONES, S.L.**

### and

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares; simulation

Naval

Systems & equipment

Armament and ammunition
Armament

SAPA is a leading company in the military industry. We develop intelligent and efficient systems that provide vehicles with greater protection and high mobility. Our business model is based on innovation and knowledge, consequently offering technologies that provide solutions for mobility, power generation and vehicle protection.

# **Anti-aircraft Artillery Systems**

Sapa specialises in anti-aircraft artillery systems, and currently, through its alliance with Rheinmetall, it supplies latest-generation solutions such as the stationary Skyguard® and Skyshield® systems and mobile systems such as Skyranger®.



Certifications ISO 9001 PECAL / AQAP 2110

Land Sector

### **Tracked Vehicle Transmissions**

SAPA's transmissions deliver maximum power and provide excellent vehicle mobility. The propulsion system of our transmissions has 32 speeds and is electro-hydraulically controlled. The "steer by wire" steering allows optimum control of the vehicle at high speeds and during sharp turns. The high efficiency inherent in this technology, greater than 90%, is derived from having eliminated hydraulic elements, therefore requiring significantly less power from the engine. This means reduced noise, optimised fuel consumption and a smaller cooling system.



### Wheeled Vehicle Transmissions

SAPA's wheeled combat vehicle transmissions improve the efficiency of conventional automatic transmissions by eliminating the torque converter and reducing losses due to hydraulic pumps, clutches and brakes, thereby improving vehicle mobility in variable terrain situations. Thanks to its unique and patented multi-gear concept, SAPA's transmissions provide a high ratio spread of 31, with 24 gears divided into equal steps at 16% increments. This allows a quasi-continuous variable behaviour of the transmission, with efficiency exceeding 90%, and optimisation of engine operation.



# **Auxiliary Power Units**

SAPA's low-voltage generators, together with internal combustion engines, are the most efficient auxiliary power units with the greatest power density that can be integrated in any tank. Customised for every application, the dimensions can be adapted to an available space as small as 30-cm high. They improve battery management, increase the vehicle's availability, have reduced acoustic and thermal signatures in surveillance situations, and power the fire control system, communications and the air conditioning system with the main engine turned off.



# High-voltage Electric Power and Generation Systems

SAPA supplies high-voltage electric machines for powers exceeding 17 kW (up to 150 kW), designed to work with internal combustion engines as an alternator or as an engine. Their ability to operate at high temperature (up to 100 °C) and their reduced volume allow a range of applications without rivals in the field of electric vehicles, including traction motors and generators in hybrid systems.





# 56

Pol. Ind. C/Los Jaboneros, 14 13640 Herencia (Ciudad Real) Spain Phone: +34 926574720 www.tsdinternational.com

### **TECHNOLOGY AND SECURITY DEVELOPMENTS, S.L.**

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Services, logistic & auxiliary Infrastructures; CBRN; auxiliary industry and machinery

TSD has more than 30 years of experience in the design, development and manufacturing of custom security vehicles, ranging from military logistics vehicles, private armoured vehicles and APC/SMV to emergency and CBRN vehicles. We have extensive and modern facilities and workspaces with latest-generation machinery that quarantees product quality and optimisation, such as cutting lasers, numerical control milling machines, bending machines, tube benders, shears and welding robots for metal processing. Our products are used by customers in over 80 countries of Europe, Africa. the Middle-East and America, and for each one we provide training, local after-sales service and the requested technical solution.

# **Military Vehicle Bodies**

TSD offers a wide range of customised logistics solutions for armies all over the world, including the transport of troops, goods, explosives, ammunition, tanks and mobile workshops, among others. In their various versions, we ensure adaptability to the environment and weather conditions where our vehicles are going to operate, therefore providing special protection and anti-rust treatments.



Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 3834



# Armoured Cash-in-Transit Vehicles

TSD's armoured vehicles complete its range of security vehicles. While respecting the external look and maintaining the features of the base vehicle, they offer high levels of ballistic protection, as well as a high degree of discretion. These vehicles are equipped with the most modern security systems, such as frequency jammers, telecommunications equipment and night-time vision cameras, among others.



# **Discreet Armoured Vehicles**

Within the range of security vehicles, armoured vehicles are notable. Designed and manufactured with a high degree of discretion, thereby preserving the external appearance and performance of the base vehicle, while offering high levels of ballistic protection.

These vehicles are equipped with the most modern security systems, such as frequency jammers, telecommunications equipment and night-time vision cameras.



### Safes / Vaults

TSD offers a wide range of products to safeguard valuables, important documents, electronic files and any other type of goods and securities that are of interest to companies or individuals. These products are manufactured using different materials and with various types of locking and security systems so that valuables are protected from theft, robbery or other undesirable contingencies. Safes are offered in this line of products.



## **Rolling Stock**

A few years ago, because of TSD's familiarity with some of the products on which it traditionally works and because of its commitment to broadening the organisation's horizons and core business, TSD opened a section engaged in work for the railroad. As with other products, such projects require both skilled labour and design engineering that is able to launch new concepts or processes and manage them for production purposes.



# 58

Avda. de Alcázar, 6-8 13640 Herencia (Ciudad Real) Spain Phone: +34 926571032

www.tecnove.com

### **TECNOVE, S.L.**

### and

Systems & equipment; maintenance & life cycle support; ancillary industry & spare

Services, logistic & auxiliary Field logistics; infrastructures; CBRN The Tecnove Group is a leader in vehicle body manufacturing and in the conversion and adaptation of special vehicles. We also offer the design and construction of camps, field hospitals, catering services and facilities maintenance. In recent years, the Tecnove Group has marketed its products in over 60 countries, thereby clearly showing its international outlook. It has 11 international offices and several production centres in Spain. With over 30 years of experience, Tecnove's customers include major technology companies, defence ministries and international organisations such as the United Nations, NATO and the European Union.

Certifications ISO 28000 OHSAS 18001 ISO 14001 ISO 22000 ISO 9001 PECAL / AQAP 2110

# Conversion and Adaptation of Special Vehicles

Tecnove's rapid intervention vehicles. The pick-up version of Tecnove's Rapid Intervention Vehicles constitutes a fast and safe option for reaching any area or emergency situation. It reduces the response time and allows convenient transport of the necessary people and equipment for carrying out the required operation. Tecnove adapts vehicles and equips them so that they can be completely confident when carrying out emergency missions.





### Manufacturing of Special Bodyworks for Security and Defence

Tecnove manufactures special bodyworks for military and law enforcement vehicles. The police assault unit is a remarkable example of the solutions that Tecnove's engineering develops for this type of mission. The police assault vehicle includes a folding ramp that, due to its length and reachable height, helps to successfully resolve highly dangerous situations. The assault ramp has a non-slip floor and protective armouring, features that make it particularly useful for security forces when taking on targets located at higher levels in buildings, aircraft, etc.



# Construction, Adaptation and Reconditioning of Containers

Construction, adaptation and reconditioning of containers for various purposes, such as kitchens, warehouses, refrigerators, accommodations, etc., which are designed according to the specific needs of every customer.

Even though the standard construction measurements are 10, 20 or 40 feet, Tecnove can also build containers with any other measurements according to customer needs.



### Mobile Medical Units and Ambulances

Tecnove is a specialist in the design and manufacture of mobile units for medical applications. It equips trucks and semi-trailers with all the necessary elements to make them real mobile hospitals: surgery rooms, radiology units, laboratories, etc. They can also include toilets, showers, air conditioning and all elements to offer maximum comfort to the users. These units are also outfitted with power generators so that they are completely autonomous and can operate anywhere, even under extreme conditions.



# Military Campsites and Field Hospitals

Tecnove designs and builds military and civil campsites and remote bases anywhere in the world, especially in areas where conditions are adverse or access is difficult or in areas that have severe security problems due to natural catastrophes or armed conflict. Construction is done in a very short period of time to ensure a quick response to the deployment needs of armies or organisations. Tecnove provides maintenance, laundry, cleaning, security and catering services. It also builds fully equipped, high quality field hospitals. They operate just like a conventional hospital.





Vía Edison, 17. Pol. del Tambre 15890 Santiago de Compostela (A Coruña) Spain Phone: +34 981580322 www.urovesa.com

# **URO, VEHÍCULOS ESPECIALES, S.A.**

Vehicles; systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Armament and ammunition Armament

URO, Vehículos Especiales, S.A. (UROVESA) is a company whose main business activity is the design, manufacturing and marketing of special all-terrain vehicles for military and/or industrial use. It has a wide range of tactical vehicles, from off-road trucks to high-mobility vehicles, armoured vehicles, etc.

After-sales technical assistance for our off-road vehicles (land platform), including equipment and spare parts, is also one of the company's main activities.

Our main customers are the Spanish Ministry of Defence and the armies of 22 other countries in Europe, Africa, the Middle East, Asia and Latin America.

# **Tactical High-Mobility Vehicle** (VAMTAC)

The VAMTAC (Tactical High-Mobility Vehicle) is a modular and versatile all-terrain vehicle designed to withstand the toughest working conditions, with a high load capacity and while maintaining its high mobility.



Certificaciones ISO 14001 ISO 9001 PECAL / AQAP 2110

# Land Sector

# Vehicle

A light-weight, all-terrain vehicle with a GVW of up to 4.5 tonnes and a payload of up to 2 tonnes. Fitted with a full-time 4WD system and locking differentials on both axles. Available in different body configurations (chassis-cab, pick-up, van) and with either a manual or automatic gearbox.

**VAMTAC LTV High-Mobility** 

**All-terrain Trucks** 

safely and without fail.

The TT URO all-terrain truck allows

personnel or any other type of load

transporting equipment, systems,

to the most inaccessible places,

# **Integrated Logistics Support**

Integrated Logistics Support (ILS) became one of the main activities of our business to ensure the operational capabilities of our vehicles. The ILS department is responsible for the availability and supply of spare parts during the entire life cycle of our vehicles, which includes an effective spare parts coding, traceability and management system; user training; the delivery of technical publications; and remote technical advising and assistance or performing scheduled maintenance at the customer's premises, in addition to performing field service where vehicles are deployed.





For more than 50 years, Trabosa, the land

Servicios, has been focusing on the design,

manufacturing and maintenance of all types of

Trabosa designs and manufacturers reliable,

incorporate a high-strength steel frame, an

armoured electrical system and a civilian or

axles. They also have hydraulic, pneumatic or

mechanical suspension systems. Their load

capacity ranges from 20 to 100 tonnes. The

complete range of Trabosa vehicles can satisfy

the most demanding military requirements to

fulfil any task under any condition.

cross-country transmission through 2 to 6

high-capacity trailers for the transport of military

efficient and custom military trailers. Our trailers

transport division of Adelte Transporte y

tanks and other heavy equipment.



# ADELTE TRANSPORTE Y AUCAR TRAILER, S.L.

SERVICIOS EFS, S.L.

C/ Pintor Pau Roig, 41

08330 Premiá de Mar (Barcelona) Spain

08029 Barcelona (Spain)

Phone: +34 902300601

C/ Pintor Pau Roig, 41

08330 Premiá de Mar (Barcelona) Spain

Phone: +34 937524283

www.aucartrailer.com

Aucar Trailer, S.L. is a Spanish company that designs, develops and produces vehicles for driving schools and logistics in general. Our engineering team designs, coordinates and supervises each job from our offices in Barcelona according to the most rigorous quality standards.

We have extensive knowledge of the laws governing vehicles, which is why all our products comply strictly with European regulations.

We are backed by experience gained based on offering the best possible guarantees and unbeatable after-sales service.

Our capacity for innovation is proved by two European patents.

- The Multi-purpose European Trailer allows just one vehicle to be used for testing for "C" and "C+E" licences.
- The "Policar" capillary distribution trailer for distributing goods in urban areas.



### CASLI, S.A.

C/ Antonio Machado, 3 28035 Madrid (Spain) Phone: +34 914561760 www.casli.es

Casli, a privately owned group of companies with 100% Spanish capital and founded in 1943, represents firms of internationally recognised prestige. It has more than 150 highly trained employees, 5,000 m<sup>2</sup> of workshops, 2,000 m<sup>2</sup> of warehouses, test benches and stations, sales engineering, an official service network and calibration and training rooms. In the defence sector, CASLI is an authorised dealer of MTU Detroit Diesel, Allison Transmission and Karcher-Futuretech, and it develops maintenance and modernisation programmes for TOAS, ATP and BMR VEC vehicles. It also distributes camp equipment, water purification systems, CBRN defence systems and energy solutions.



### **CAUCHOS PUNTES, S.L.**

Ctra. de Valencia, km 6,100 50410 Cuarte de Huerva (Zaragoza) Spain Phone: +34 976463085 www.cauchospuntes.com

35 years of experience as part supplier for various armed forces endorse the quality of our products. Constantly focused on the most demanding manufacturing requirements in the military sector, Cauchos Puntes seeks a specific solution for every need. Five different processing techniques (extrusion, injection, compression and roller and drum coating) allow us to offer good advice in each individual situation. We follow the specifications of different armies and offer properties such as high resistance to abrasion, good adhesion, anti-tearing and high durability delivering products such as vulcanised pins, bushings, and rolling systems for tracked vehicles: tensor, support and drive wheels; links; track pads; skirts: etc.

Certifications ISO 9001 OHSAS 18001 PECAL / AQAP 2110 ISO 14001

www.adelte.com

Certifications ISO 9001 PECAL / AQAP 2110 ISO 14001 Certifications ISO 9001 PECAL / AQAP 2110 ISO 14001

Certifications PECAL / AQAP 2110 ISO 9001



# COMERCIAL E INDUSTRIAL EUROIBÉRICA, S.A.

C/ La Solana, 5 28850 Torrejón de Ardoz (Madrid) Spain Phone: +34 916487600 www.euroiberica.com

CIESA is a sales and service company that acts as a representative and adviser for manufacturing companies when selling their respective products.

### Main activities:

- Marketing Spanish-manufactured products for both defence and civil industry, including the following products: tank pads, bushings and links; precision suspension and machine parts; torsion bars; tooth rings and turret baskets. Also, special high-mobility vehicles and spare parts, special all-terrain trucks, forklifts, dumpers and all-terrain public works machinery.
- Comprehensive maintenance of vehicles in use in the armed forces and state security bodies.
- The installation and maintenance of fire detection and firefighting systems in armoured vehicles.



# COMERCIAL HERNANDO MORENO, S.L.

C/ Camino de Las Pajarillas, 8, Pol. Ind. Las Nieves 28935 Móstoles (Madrid) Spain Phone: +34 916165220 www.cohemo.com

Cohemo, S.L. is a Spanish company specialising in the maintenance, repair, upgrading and supply of assemblies and sub-assemblies for armoured vehicles in service in various armed forces of the world (vehicles such as the Leopard 2 A4/2E, Pizarro/ASCOD and BMR/VEC). Cohemo also supplies spare parts for vehicles in production or for those for which, due to their long service life, it is difficult to maintain their supply chains (Leopard 2 A4/2E, Pizarro/ASCOD, Centauro, BMR/VEC, RG-31, the M113 and M109 families, Anibal and fire-fighting platforms).

Cohemo is also a supplier of power generators and is an official distributor of FG-Wilson. Cohemo likewise repairs and creates fixed and moving target ranges for calibres from 5.56 mm up to 12.70 mm, and it develops simulators for armoured combat vehicles.



# COMPAÑÍA DE RECTIFICADOS DE CORDOBA, S.A.

C/ Fresadores, parc. 1, Avda. de la Torrecilla, s/n 14013 Córdoba (Spain) Phone: +34 957297355

www.rectificadoscoreco.com

- Rectification and rebuilding of the internal combustion engines of industrial vehicles and passenger cars.
- Repair and supply of components for military vehicles.



### **INDITE 2000, S.L.**

C/ Zaragoza, 5 28970 Humanes de Madrid (Spain) Phone: +34 916855033 www.indite2000.com

Indite 2000. S.L. is a Spanish company that specialises in the manufacture, maintenance, repair, upgrading and supply of optical systems for armoured and tactical vehicles in service in various armed forces of the world (Leopard 2 A4/2E, Pizarro/ASCOD, RG-31, M113, BMR/VEC).

Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110 Certifications ISO 9001 PECAL / AQAP 2110 ISO 14001 Certifications ISO 14001 PECAL / AQAP 2110 ISO 9001

Certifications ISO 9001



# INDUSTRIAS ZAMARBÚ, S.L.

Pol. Ind. vía principal parc. 55 13200 Manzanares (Ciudad Real) Spain Phone: +34 926647630 www.zamarbu.com

The design, development, production and repair of semi-trailers, tippers, fixed box trailers and crane assemblies.

Founded in 1954, Industrias Zamarbu has an extensive professional history.

It has solid national experience and recognised international prestige.

We offer innovative and functional solutions for every activity.

We apply the latest technologies to our products and always strive for constant improvement and customer satisfaction.



## MANN+HUMMEL IBÉRICA, S.A.U.

C/ Pertusa 8, Pol. Ind. Plaza 50197 Zaragoza (Spain) Phone: +34 976287300 www.mann-hummel.com

Throughout its history, Mann+Hummel Ibérica, belonging to the Mann+Hummel group, has consolidated a strong position in manufacturing products of high-quality value in the field of filtration and technical plastic components for the automotive industry and all kinds of engines.



### PROTEC-FIRE, S.A.

C/ Galileo Galilei, 25. Pol. Ind. La Garena 28806 Alcalá de Henares (Madrid) Spain Phone: +34 663019595

http://www.iturri.com/es/quienes-somos/grupo-iturri/protec-fire

PROTEC-FIRE is a company of the ITURRI Group engaged in:

- Bodyworks of fire-fighting vehicles: urban, rural, forest, industrial and airport use.
- Bodyworks of special vehicles: health transport, medical intensive care units, aviation refuelling trucks.
- Fire protection engineering.
- Emergency equipment.
- Design and manufacture of chassis for airport vehicles.
- Turnkey fire protection installations.



# RALENTIZADORES Y TRANSFORMACIONES, S.A.

C/ Cobre, 15 28850 Torrejón de Ardoz (Madrid) Spain Phone: +34 916766782 www.ryt.es

The company's main activity has always been the design, processing and outfitting of commercial vehicles, with its business activities encompassing not only the national area but Europe as well, thus offering customers a solution for their vehicle when it cannot be satisfied by a standard vehicle.

R&T's extensive history and its qualified staff, who receive ongoing training, have allowed it to also enter the railway business, with direct marketing of a wide range of products from many major and well-known European companies with a long tradition in this sector.









### **RENOVA-MOTOR.S.L.**

C/ Marconi, 403 45600 Talavera de la Reina (Toledo) Spain Phone: +34 925806602 www.renovamotor.es

Reconstruction, repair and maintenance of industrial, military and armoured vehicles and airport equipment and vehicles, including firefighting equipment, as well as the engines, assemblies and sub-assemblies of such vehicles. Sale of spare parts and components.

# STAR DEFENCE LOGISTICS & ENGINEERING. S.L.

Ant. Ctra. de Extremadura, km 20,800 28935 Móstoles (Madrid) Spain Phone: +34 914989196 www.sdle.es

Wholesale and retail trade and repair of motor vehicles. Wholesale trade of other machinery, equipment and supplies. Overhaul and maintenance of container equipment and operations:

- Maintenance of containers for various applications.
- Vehicle maintenance.
- Maintenance of sub-products.
- Maintenance of public works machinery.

# STRUCTURAL AEROSPACE SYSTEMS, S.L.

C/ La Vaguada, 11 24010, San Andrés del Rabanedo (León) Spain Phone: +34 987288578 www.sascorp.es

SASCorp. a 100% Spanish-owned company. has the most advanced private supercomputing centre in Spain. It specialises in designing, developing and optimising land systems and has extensive experience in designing and developing armoured vehicles. This has led SASCorp to collaborate with GDSBS as a Strategic Partner on some of its most relevant projects (VCZAP Castor, VCI/C, ASCOD SV, ASCOD DK and the 155/52 SIAC). The design and simulation of protection systems for armoured vehicles (ballistic protection, mine & IED protection), unique capabilities that will be applied to preparing the numerical models for the 8x8 VCR to determine its behaviour against antitank mines or IED

Together with EM&E, the development of new Remote Weapon Stations of different calibres, notably including the development of the new Guardian 30 weapon station for the 8x8 VCR Dragon programme.

# TALLERES GRUYMA, S.L.

C/ Ballobar, s/n 22004 Huesca (Spain) Phone: +34 974210516 www.gruyma.com

TALLERES GRUYMA, S.L. was incorporated in 1973, has over 42 years of experience and facilities exceeding 3,000 m², fully equipped and with the best equipment for the maintenance, repair and sale of machinery for public works and construction. We also have a track for pre-, intermediate and final testing, which we perform on the machines for which our customers have entrusted us. Our expert staff has extensive experience in every field of our business activity, and we train a team that is capable of performing fully assured repairs on any brand and model of machine in the market.

- Repair and maintenance of public civil works and lifting machinery.
- Production of machinery and spare parts.
- Sale of public works and lifting machinery, in addition to components and spare parts.

Certifications PECAL / AQAP 2110 ISO 9001 ISO 14001

Certifications ISO 9001 PECAL / AQAP 2110

Certifications ISO 9001

events.

Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110



# **UP LIFTING VERTICAL, S.A.**

Pol. Ind. Sepes. Rda. Industria, 151 22006 Huesca (Spain) Phone: +34 974229832 www.uplifting.es

UP LIFTING S.A. is a Spanish company specialising in the design and manufacture of heavy lifting machinery. It is a young and modern company founded in 2011, but with the participation of personnel holding vast experience in the sector.

The development of the company is based on three cornerstones:

- Commitment to research, development and innovation.
- Use of the most advanced technological resources in the field of production – its factory is considered a pioneer at the international level.
- Machinery tailored according to the specific needs of each customer and every market.
   UP LIFTING produces machinery for both

the civil and military sectors, having supplied machinery to various armies in NATO.

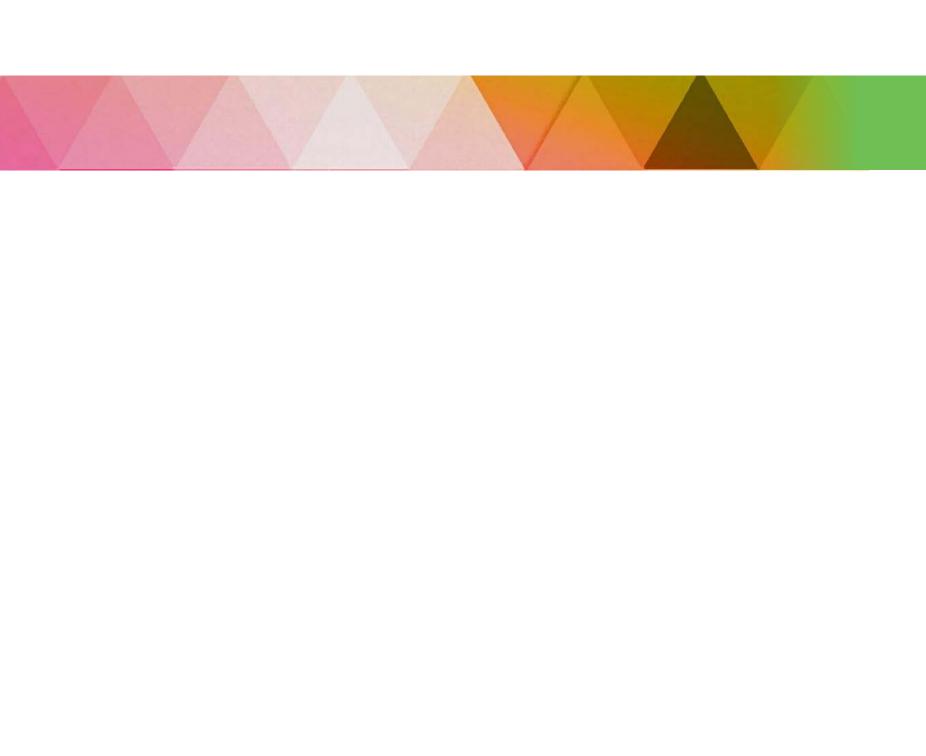


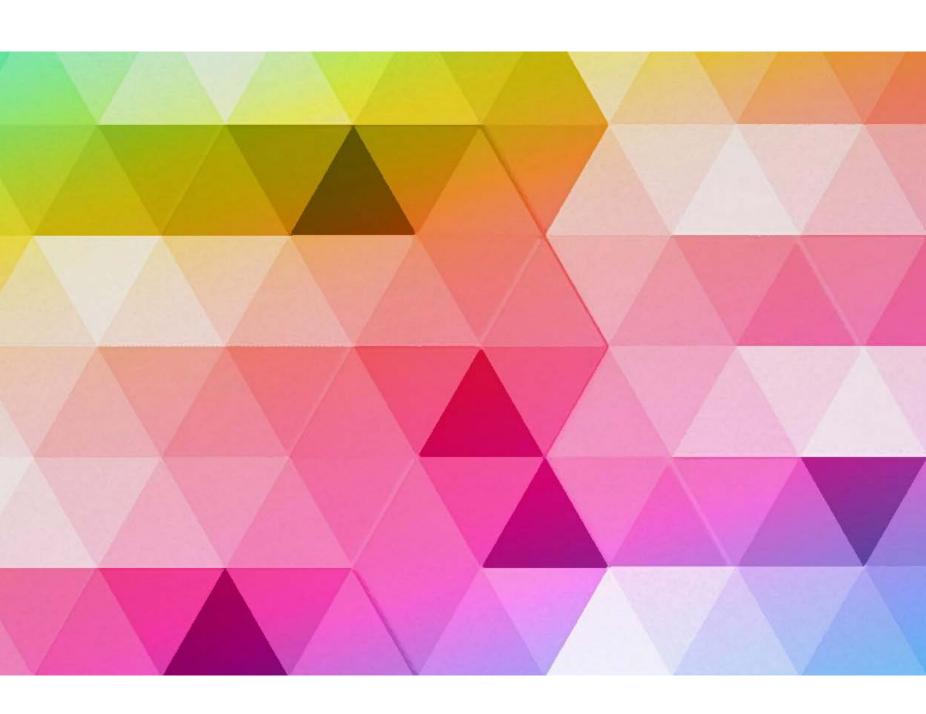
# **ZF SERVICES ESPAÑA, S.L.U.**

C/ Gorchs Lladó, 99-107 nave11 08210 Barberà del Vallès (Barcelona) Spain Phone: +34 936750954 www.zf.com/es

We sell spare parts, maintain and repair products of the ZF Group: gearboxes, transmissions, gearboxes for ships and wind turbines, electronic control units, as well as products for automotive vehicles of the SACHS, Boge and Lemförder brands.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 Certifications ISO 14001 ISO 9001 OHSAS 18001







# Naval Sector



# 70

C/ Académico Juan Luis Roche, 2, nave 4 11500 El Puerto de Santa María (Cádiz) Spain Phone: +34 956541894 www.abance.es

# **ABANCE INGENIERÍA Y SERVICIOS, S.L.**

### Naval

Military vessels; submarines; rescue & police vessels; systems & equipment; underwater systems; simulation; maintenance & life cycle support; auxiliary industry & spares

Armament and ammunition Simulation; maintenance & life cycle support; auxiliary industry & spares

Electronics, communications & ICT Radars; electronic warfare; C4ISR; ICT

Services, logistic & auxiliary Field logistic; infrastructures

Consulting & engineering Consulting & engineering

ABANCE is a family company founded in 1994. Its main business activity is to provide support in the functional design, detail design and production design of military ships and submarines, as well as integration engineering for combat systems and control systems.

ABANCE has the great capacity to adapt its engineering to the production means of each shipyard, and it provides technical assistance in the manufacturing, assembly and testing phases of a ship, always seeking to optimise delivery times and reduce the production costs of a product.

ABANCE participates as a subcontractor at public shipyards on national programmes, as well as programmes for foreign navies.

# Functional Engineering Support

- Functional engineering project support.
- Structural basic engineering.
- P&ID design.
- Design of wiring diagrams.



Certifications ISO 9001

# **Detail Engineering and Production Engineering**

- Detailed engineering and production engineering.
- Calculation of steel block movements.
- Design of the construction strategy of naval armaments.
- Design of the construction strategy of structural blocks.
- Structural detailed design.
- Piping detailed design.
- HVAC detailed design.
- Electrical detailed design.
- Detailed design of marine interiors.
- Electronic & Instrumentation detailed design.
- Technical assistance and engineering coordination for the manufacturing, assembly and testing phases.



# **Combat System Integration Engineering on Ships**

- Combat system integration engineering on ships.
- Design of technical specifications and mechanical engineering, communications, electronics and integration on different naval and submarine platforms.
- Hardware and software engineering.
- Design tools such as IBM Rational Suite.
- Application of MIL standards.
- Design of infrastructure and platform systems (hardware and software code & test).



# Integration Engineering of the Control System on Ships

ABANCE has extensive experience developing redundant and flawless PLC-based systems for ship control, including subsystems for generation, damage control, steering & propulsion, auxiliary equipment, emergencies and other modules. Its activities cover the entire life cycle, from design to on-board integration & testing, including calibration, training, configuration management, on-board or remote maintenance, etc.



Puerto de Figueras, s/n 33794 Castropol (Asturias) Spain Phone: +34 985636250 www.gondan.com

# **ASTILLEROS GONDÁN, S.A**

### Naval

Military vessels; rescue & police vessels; other vessels; systems & equipment; maintenance & life cycle support

Astilleros Gondán can build any type of vessel of up to 110 metres in length, without any technological limitation.

The flexibility to satisfy every owner's need is the key feature of the shipyard. Based on this premise, we achieve excellence and effectiveness for both the construction of a particular ship for a specific owner and the construction of standard vessels.

### **Offshore Patrol Vessels**

These patrol vessels are designed and built to conduct operations in the high seas. Their main characteristics are high efficiency and reliability. They can conduct border control missions in the open sea; fight against illegal activities such as drug trafficking, smuggling and environmental crimes; as well as perform search and rescue missions.



Certifications ISO 14001 ISO 9001 OHSAS 18001

Naval Sector

### Hydrographic and Oceanographic Research Vessels

Gondán is an expert at building super-silent scientific research vessels whose propulsion configuration, laboratories and deck layout are specifically designed and built to comply with ICES CRR 209 regulations, the most restrictive regarding underwater noise control. Equipped with a wide range of cranes, winches and miscellaneous deck equipment, these units can conduct complex, multidisciplinary research, both through direct observation as well as through the deployment of autonomous vehicles and equipment.

**Coastal Patrol Vessels** 

Thanks to GRP combined with

Kevlar, these Fast Patrol Boats

for sustained sailing, therefore

performing surveillance missions

and fighting against drug trafficking

and illegal immigration, in addition

are designed and equipped

to protecting against marine

environment hazards.



### **Training Vessels**

Fast, easy to handle and designed to make efficient use of space, these training vessels are built specifically to teach cadets and to contribute to strengthening and expanding their technical and sailing knowledge.



### **Landing Craft**

Thanks to the proven hull lines, these Landing Craft are designed to navigate and operate efficiently, both at sea and in river waters. They are able to transport troops and cargo and can be equipped with large cranes for transporting supplies to disaster areas.





### 74

Paraje Los Angostos, 44 30395 La Aparecida, Cartagena (Murcia) Spain Phone: +34 968165122 www.camarsa.es

### **CAMAR INDUSTRIAL, S.A.**

#### Naval

Systems & equipment; underwater systems; maintenance & life cycle support

### Aerospace

Satellite services; satellite systems & equipment

### Electronics, communications & ICT

C4ISR; surveillance & security; systems & equipment; ICT

Naval repair and maintenance in the areas of communications, propulsion, submarines, optics, mechanics and systems.

### **Installation and Maintenance** of Communications and **Navigation Systems**

One of the specialities of Camar Industrial is communications. The design, manufacture, installation, integration and maintenance of radio, communications and encryption systems on surface vessels, submarines and ground stations, with the capacity to meet any civilian and/or military need or requirement. The design, manufacture and installation of underwater acoustic equipment.



Certifications ISO 14001 ISO 9001 **OHSAS 18001** PECAL / AQAP 2110

### **Installation and Maintenance** of Propulsion Control Systems

Camar Industrial is one of the leading companies in propulsion control systems. Thanks to the experience of its technicians, it has been able to design, manufacture, install and maintain integrated platform control systems on surface ships and submarines; alarm control and emergency shutdown systems for engines; intrusion, flood and fire alarm systems; instrumentation and control systems; and mine detection systems (Degaussing).



### Maintenance and Repair of Internal Combustion Engines

Camar Industrial has a large group of mechanics with extensive experience on all types of internal combustion engines, including automotive engines, submarine engines, surface ship engines or cogeneration engines, among many others. Camar Industrial performs maintenance and repair on internal combustion engines, with a high degree of customer satisfaction.



### Installation and Maintenance of Electronic Equipment

Thanks to its electronics technicians, Camar Industrial can design, manufacture, maintain and repair any electronic equipment, whether of an industrial or military origin.



### Installation and Maintenance and Repair of High-, Mediumand Low-pressure Systems

Camar Industrial performs
maintenance and repairs on any
high- and medium- pressure
compressor. We have parts
available in our warehouses for a
wide variety of compressors so that
we can perform any repair in the
shortest possible time.



### 76

Avda. Beiramar, 18 36208 Vigo (Pontevedra) Spain Phone: +34 986233000 www.freireshipyard.com

### **CONSTRUCCIONES NAVALES P. FREIRE, S.A.**

#### Naval

Military vessels; rescue & police vessels; other vessels; maintenance & life cycle support

Construcciones Navales P. Freire, S.A. is a company engaged in the construction of high added value vessels. The company was founded in 1895 by the Freire family, and four generations later they are still the only shareholders of the company.

Since the 60s, Freire has built over 250 vessels for more than 20 countries.

The shipyard is currently engaged in the construction, repair and conversion of all kinds of steel vessels measuring up to 155 m in length.

Since the year 2000, the shipyard has become internationally well known as a builder of high added value vessels such as oceanographic, research and offshore vessels.

Naval Sector

Certifications ISO 14001 ISO 9001 ISO 45001

### **Vessels**

The shipyard currently specialises in the construction of commercial and military high-tech vessels with a high degree of sophistication and customisation. Within this range, Freire can build all kinds of vessels measuring up to 155 m in length, such as hydrographic ships, offshore patrol vessels, tall training ships, research vessels and as well as support vessels for the offshore industry, among others.





Ctra. Castro-Meiras Tuimil-Sequeiro 15550 Valdoviño (A Coruña) Spain Phone: +34 981494000 www.detegasa.com

### DESARROLLO TÉCNICAS INDUSTRIALES DE GALICIA, S.A.

#### Naval

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Services, logistic & auxiliary Auxiliary industry and machinery; others DETEGASA originated in a group of companies founded in 1965. The company began operating on its own in 1985, and it is located in Valdoviño (La Coruña), Spain.

The company is engaged in the design, manufacture and marketing of mechanical equipment of all kinds, with a special focus on environmental care in the naval sector. As a result of its vast experience within this field, the company also performs maintenance tasks on this type of equipment.

### **Marine incinerators**

Thanks to DETEGASA's effective policy of continuous improvement, its incinerators incorporate the latest technologies and meet the most stringent legislative requirements in force. They have the OMI MEPC 76 (40) type certificate, including the corresponding amendments, OMI MEPC 93 (45) and OMI MEPC 244 (66).





#### **Waste Water Treatment Plants**

Our experience over the years means that we can provide various solutions adapted to the specific needs of each project. We manage several different technologies, including conventional biological activated sludge processes, compact membrane bioreactors and physical-chemical processes that are custom-designed for projects with special requirements.



### **Hydrocarbon Separators**

DETEGASA's Oily Water Separators have been designed to assure excellent performance under the most demanding conditions.
Furthermore, needs regarding maintenance, spare parts and consumables are minimal.
Well-known customers such as DSME, Hyundai HI, Samsung and Total Offshore have experienced the engineering capabilities of DETEGASA on special offshore projects, including various hazardous zone requirements and specific logistic needs.



### **Waste Treatment Systems**

The Organic Solid Waste Treatment System is a part of the global waste treatment system in global waste management. Specifically, this system is used to treat and collect food waste and, in general, all the organic waste generated in the kitchen of the ship.



### **Control and Safety Systems**

The foam stations are able to produce a foam solution in sea water for the firefighting system, in accordance with MIL-F-24385C. Foam stations can be supplied with a fixed and variable foam proportioner or only a variable foam proportioner, depending on the customer's needs. The system produces a solution consisting of 6% AFFF foam and 94% seawater (the system can be adapted to other requirements).



# FLUIDMECANICA 7013

### FLUIDMECÁNICA SUR, S.L.

#### Land

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

#### Naval

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Aerospace

Aerial systems & equipment

#### Armament and ammunition

Armament; missiles; maintenance & life cycle support; auxiliary industry & spares

### Electronics, communications & ICT

Radars; C4ISR; surveillance & security; systems & equipment; maintenance & life cycle support

Services, logistic & auxiliary Field logistic; auxiliary industry and machinery; consumer goods

### 80

Avda. del Mueble, s/n 11130 Chiclana de la Frontera (Cádiz) Spain Phone: +34 956536592 www.fluidmecanicasur.es

Fluidmecánica Sur currently works in the main sectors of national industry at centres such as:

- Shipyards.
- Defence.
- Factories and assembly lines.
   Fluidmecánica Sur's business activities cover the following fields:
- Design.
- Oil hydraulics.
- Pneumatics and automatic systems.
- Naval machinery.
- Fishing machinery.
- Maintenance and repair of weapons and electronic systems.
- Manufacture, installation and maintenance of reverse osmosis desalination and water purification equipment.
- Turnkey naval and industrial assembly and installation.
- Maintenance, repair and overhaul of light, heavy and special vehicles.
- Commissioning and systems testing on ships.
- Supplies.

Certifications ISO 14001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110

#### Maintenance of MK-38 Guns

Fluidmecánica has extensive experience at maintaining and overhauling small and large calibre guns. Regarding the MK-38 Mod. 2A, we have performed the following work:

- Installation of new assemblies and on-board testing.
- Set to Work (STW).
- Initial Light Off (ILO).
- Harbour Acceptance Test (HAT).
- Sea Acceptance Test (SAT).
- Incidental repairs.
- Scheduled maintenance.
- Overhauls.



### Maintenance of Marine Infantry Amphibious Assault Vehicles

Fluidmecánica performs maintenance and overhaul work on AAV7A1 vehicles:

- Preliminary evaluation.
- Disassembly.
- Component repair.
- Intermediate testing.
- Assembly.
- Final testing.



### Maintenance of Marine Infantry Hummer Vehicles

The work performed on Hummer vehicles is subject to a scheduled review. Therefore, each vehicle is subject to a series of guidelines for inspection, repair and replacement of the different elements that compose the vehicle.

Fluidmecánica has done the complete reconstruction of vehicles, starting at the chassis, or complete overhauls of the engine and subsequent bench testing.

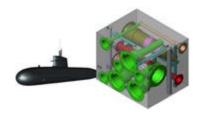


### Design and Manufacture of the Autopilot of the S-80 Submarines

S-80 Submarine / Hydraulic control units.

Control blocks of the hydraulic system of the bow, stern and rudder of the S-80 submarine. Fluidmecánica works in partnership with Avio Propulsione Aerospaziale on this project for design, development, manufacturing and installation. There are 3 units:

- H.U. of the stern plane (inclination).
- H.U. of the bow plane (depth).
- H.U. of the rudder (steering).



### Maintenance of Helicopter Rast Systems on board Vessels

Technical support, materials and training of our personnel for the maintenance of the Rast systems of the Álvaro de Bazán class F-100 frigates and the Santa María class FFG.





C/ Manganeso, 78-86, Pol. Ind. Los Camachos 30369 Cartagena (Murcia) Spain Phone: +34 968147528 www.herjimar.com

### METALMECÁNICAS HERJIMAR, S.L.

#### Naval

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Services, logistic & auxiliary Infrastructures; auxiliary industry and machinery; services Metalmecánicas Herjimar originated from a family business that, for over forty years, has been developing construction, repair, installation and maintenance activities for the industrial and transportation sectors (naval, road and rail), thus constituting a metal engineering services company.

Metalmecánicas Herjimar is a company that has based its strategy on enhancing RDI, quality and customer service, which has allowed it to meet any demand in the field of ancillary services for industry and construction, both nationally and internationally. It is a benchmark in its sector regarding flexibility and the level of customer service, therefore applying the most appropriate formula at any given time.

#### **Submarines**

- An ancillary company of Navantia in the construction and installation of the S-80 submarines for the Spanish Navy.
- An ancillary company of the DCN shipyards (France) and Navantia shipyards in the construction of the Scorpene-class submarines for the Chilean and Malaysian navies.
- An ancillary company of Navantia in the construction of the SEGURA minesweepers for the Spanish Navy.
- Construction of modules for expansion of Navantia's floating dry dock.



Certifications ISO 14001 ISO 9001 ISO 45001

### **Boilerworks**

- An ancillary company of several national construction companies in the new expansion of the Cartagena Refinery.
- An ancillary company in the construction of photovoltaic power stations and cogeneration plants in Spain.
- Construction of formworks and prefabricated metal formerets.
- Boilers (reservoirs, pressure vessels, tanks, silos, piping, steel structures, etc.).
- All kinds of construction and machining, such as shafts, flanges, bearings, gears, etc.



#### **Industrial Maintenance**

- Removal, review and overhaul of pneumatic and hydraulic equipment and systems, motors, fluid pumps, compressors, fans, turbines and pumping installations in general.
- Repair and commissioning of conveyor belts, excavators, gantry cranes, port crane clamshells, hoppers and storage tanks.
- Inspection and maintenance of central crude distillation units, thermal power plants and gas storage plants.
- Ancillary services for large installation projects.



### **Marine Signalling Buoys**

- Construction of maritime signalling beacons and buoys in various sizes and shapes.
- Construction of mooring buoys to moor large tonnage ships.
- Construction of lighted buoys.
- Construction of medium and long-range rotating beacons.





 Construction of lighthouses, buoys and maritime beacons.





C/ Velázguez, 132 28006 Madrid (Spain) Phone: +34 913358400 www.navantia.es

### **NAVANTIA, S.A., S.M.E.**

#### Land

Systems & equipment

#### Naval

Military vessels; submarines; other vessels; systems & equipment; maintenance & life cycle support

Armament and ammunition Armament; ammunition

Electronics, communications & ICT Radars; C4ISR; surveillance & security Navantia is 100% owned by State Company for Industrial Equity Holdings (SEPI). It is a global benchmark in the design, construction and integration of state-of-the-art warships, as well as in ship repairs and upgrades. It is also engaged in the design and manufacture of integrated platform management systems, fire control systems, command and control systems, propulsion plants and life cycle support for all its products.

### Certifications ISO 14001

ISO 9001 PECAL / AQAP 2110 **UNE EN 9100** PECAL / AQAP 2210 PECAL / AQAP 2310 **OHSAS 18001** 

### **Surface Ships and Submarines**

Navantia is a global leader in the naval construction industry and a company that offers global solutions that adapt to its customers' needs. Aircraft carriers, patrol boats,

amphibious, logistics and combat ships, minesweepers, LCMs, submarines and research vessels.



### Diesel Engines and Components

Navantia's Motor Factory supplies propulsion engines for all types of vessels: frigates, corvettes, patrol boats, minesweepers, logistics support vessels, amphibious landing craft, submarines, ferries, container carriers, Ro-Ro, tugboats, etc.



### **Systems Solutions**

"Sistemas" is an excellence centre within Navantia devoted to the integration of complex high-tech systems.

This Production Unit has vast experience in the definition, development, production and integration of combat systems intended their installation on any type of vessel: patrol boats, frigates, submarines, aircraft carriers, etc.



### Fire Control System: The Dorna Family

DORNA is an evolved concept of a Fire Control oriented towards customer needs, in each case adapting the interfaces accordingly to the combat system, the navigation system, the weapons or the on-board video distribution system of a ship.

It boasts anti-aircraft warfare, surface warfare and coastal warfare capabilities, in addition to surveillance, training and maintenance features, as well as other secondary features such as navigation support, warning rounds, etc.



### **Steam Turbines and Components**

Navantia's Turbine Factory offers all types of products and services to its customers, from the manufacturing and supply of components to turnkey plant projects that include feasibility studies, designs, the supply of equipment, assembly and commissioning, in addition to after-sale services that cover everything from specific repairs and/or maintenance to long-term agreements that guarantee the optimal operation of equipment or facilities for customers.







Pol. Ind. de la Borna 36955 Meira-Moaña (Pontevedra) Spain Phone: +34 986811804 www.rodman.es

### **RODMAN POLYSHIPS, S.A.U.**

#### Naval

Military vessels; rescue & police vessels; other vessels; maintenance & life cycle support

The Rodman Group is the oldest company in Spain in its sector.

Its experience, having delivered over 15,000 vessels, positions it as one of the leaders in the European shipbuilding industry. This strong position in the market is founded on the highest standards of quality, safety and optimal sailing performance, as well as a diversified and versatile range of products. The company's three divisions (steel vessels, professional sailing vessels and pleasure craft) have turned it into one of the companies offering the greatest range of products worldwide: professional boats, fishing boats, pleasure craft and fast patrol boats.

#### **Patrol Boats**

Since 1974, Rodman has been designing and building high-speed patrol boats out of GRP (Glass Fibre Reinforced Polyester), especially designed for use in surveillance, intervention and support of defence and security operations. Rodman has specialised in this type of construction, in which it has achieved international prestige and recognition, and it is now one of the leading companies in this segment.

Rodman currently offers a wide range of patrol boats, ranging between 10 and 45 metres in length, with the possibility of building every vessel according to the most demanding requirements and performance specifications.



Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110

### Offshore Patrol and Interceptor Vessel

Vessels designed for intervention tasks, optimising functionality and performance to the utmost.

- Rodman 138: A new milestone in GRP shipbuilding, with the longest hull built to date using composites.
- Rodman 130: A new Patrol Boat model for the Coast Guard service, designed for continuous operation at sea, day and night, without external assistance for up to 5 days.
- Rodman 111: This completely new Interceptor Patrol Vessel has been entirely developed by the Rodman Technical Department, reaching the perfect balance between highsea performance, reliability and quality construction.



#### **Catamarans**

Rodman offers a wide range of professional vessels designed for many uses for working at sea Within this extensive line of boats. the range of working catamarans, passenger catamarans, pilot vessels, harbour work boats and fishing boats are notable. All of Rodman's professional boats are designed and built considering the particular use specified by the Owner. In most cases, these boats are needed to work 24 hours a day, 365 days a year. The robustness, safety and functionality of Rodman boats are the attributes that our customers value the most, which is why they choose us.



### **Sport Boats**

Elegance in its purest form, the Rodman Muse 74 is the flagship of the Muse range.

Destined to become a benchmark in the market, the Rodman Muse 74 offers the best of what the Muse range has to offer in terms of style and sophistication, combined with robustness, vibrancy and sailing performance.





### 88

Ctra. de la Algameca, s/n 30205 Cartagena (Murcia) Spain Phone: +34 968508214 www.electronica-submarina.com

### S.A. DE ELECTRÓNICA SUBMARINA, S.M.E.

Underwater systems; simulation; auxiliary industry & spares

Armament and ammunition Ammunition

Electronics, communications & ICT Surveillance & security

SAES, specialised in underwater acoustics and electronics, provides advanced equipment and systems for undersea security and defence. With over 30 years of experience in the naval industry, SAES offers customised, high-tech solutions in the military and civilian markets:

- Sonar and ASW systems for air or naval platforms.
- Underwater signatures measurement and control: acoustic, magnetic, electric, seismic and pressure.
- Multi-influence naval mines and mines for special ops.
- Acoustic classification and intelligence systems.
- Maritime protection and surveillance.
- Simulation and training systems.
- Engineering, technical support, maintenance and training services.

Cost effective, reliable, modular and open architecture defines our systems.

Certifications ISO 9001 PECAL / AQAP 2110 **UNE EN 9100** 

#### MINEA Multi-Influence Naval **Mines**

MINEA is the most advanced family of current multi-influence naval mines. It comprises several types of mines (moored, cylindrical and shallow-water), in both combat and exercise versions.

They are equipped with sensors for the detection and processing of magnetic, electrical, pressure and acoustic influences. The exercise version is available for MCM training, as well as for gathering intelligence information through the measurement and recording of signatures.



### SPAS (Sonobuoy Processing Acoustic System)

SPAS is a sonobuoy acoustic processor for detecting, locating and tracking underwater threats from air platforms.

It incorporates the most advanced acoustic processing techniques for all types of passive and active sonobuoys, implemented analogically and digitally. Its software and hardware are easily customisable to meet the specific requirements demanded by the user or integrator, such as the platforms on which it will be installed, the operational concept and the number and type of sonobuoys.



### **DDS-03 - Diver Detection Sonar**

DDS is a high-frequency active sonar specifically designed to protect harbours, anchored vessels and critical infrastructures against underwater threats as divers and underwater manned or unmanned vehicles.

DDS has been verified and validated successfully in a wide variety of operational environments: anchored vessels, ports, detection of divers in open and closed circuits, swimmers, effects of tides, etc. DDS can be integrated in any surveillance system.

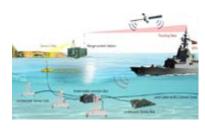


### MIRS - Multi-Influence Range System

The Multi-influence Range System (MIRS) for surface ships and submarines provides the simultaneous measurement of magnetic, electric, pressure, acoustic, and seismic influences in a real scenario.

MIRS is also a tool for testing and calibrating degaussing, ASG and MCM systems.

MIRS can be installed as a fixed measurement station or, thanks to its portability, it can also be easily deployed from an RHIB in the desired location.



### **MILA (Limpet Mine)**

MILA is an underwater demolition charge for special forces that incorporates a computer-controlled detonation system. It is used by combat divers to neutralise threats. Its dimensions and light weight allow it to be used in longer distance operations and allow two units to be carried at the same time.

MILA complies with NATO safety standards, obtaining excellent results in detonation tests against 12-, 24- and 36-mm thick steel marine targets.



# Naval Sector

# Sainsel

90

Avda. de Castilla, 2, Edif. C 28830 San Fernando de Henares (Madrid) Spain Phone: +34 916781550 www.sainsel.es

### SAINSEL SISTEMAS NAVALES, S.A.U., S.M.E.

#### Naval

Systems & equipment

### Aerospace

Aerial systems & equipment

Electronics, communications & ICT C4ISR; surveillance & security

Founded in 1991, Sainsel is the leading company in combat system hardware and the WECDIS navigation system in Spain.
Solutions include combat and platform system consoles, Warship Electronic Chart Display and Information Systems (WECDIS), chart servers and integrated bridge system consoles.

Since 2000, Sainsel has also been present in the military aviation sector by supplying state-of-the-art products and solutions for vision and mission systems, as well as for simulators.

In the civil market, Sainsel supplies Electronic Chart Display and Information Systems (ECDIS) and emergency management systems for search and rescue organisations.

### **Navigation Consoles**

The WECDIS NAV/C2P console is a tactical navigation system developed according to NATO requirements in STANAG 4564-War Ship Electronic Chart Display and Information System, which provides navigation security for both surface ships and submarines. This system assists the navigation officer in route planning and monitoring for a secure navigation, including in war operations, thanks to its functionality and the integration of data from the navigation sensors and from the on-board combat system.



Certifications UNE EN 9100 ISO 9001 PECAL / AQAP 2110 ISO 14001

### **Integrated Bridge Consoles**

The integrated bridge console of the Australian LHDs provided by Sainsel is a high-performance military product used to control the navigation of these large and modern ships. It integrates several systems, including the ECDIS, radar, steering and propulsion control, the integrated platform control system, communications and cameras, among others.



### **Combat System Consoles**

The WCONAM family of consoles is composed of over ten different types that have been developed and tested according to applicable MIL standards. Some of them have been integrated and functionally tested in combat systems testing facilities in the USA.

More than 200 units of these consoles are operational as part of the combat systems of frigates, patrol boats, aircraft carriers and submarines.



### Platform Control System Consoles

For outfitting the naval platform control systems of large warships, Sainsel supplies specific consoles developed and tested according to applicable MIL standards.

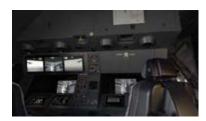
These consoles are operational on-board important military vessels such as the F-100 frigates of the Spanish Navy and modern Australian destroyers, in addition to Spanish submarines under construction.



### **Avionic Displays**

Sainsel supplies high-performance 3D and panoramic displays designed for use as a part of inflight refuelling systems.

Many large refuelling aircraft around the world are equipped with these displays.





### APOYO LOGÍSTICO INTEGRADO, S.L.

C/ Doctor Castelo, 10, 6° C 28009 Madrid (Spain) Phone: +34 914319261 www.alisl.com

Apoyo Logístico Integrado is a company founded in 1998 by naval and computer engineers with extensive experience in logistics support for the Navy and the Merchant Marines. Our objective is to provide service to industry in all maintenance areas



### ARIES INDUSTRIAL Y NAVAL SERVICIOS. S.L.U.

C/ Guzmán el Bueno, 133 28003 Madrid (Spain) Phone: +34 915339200 www.ariesnaval.com

Aries Industrial y Naval Servicios, S.L.U. was founded to meet the demand for services in the marine sector, later expanding its business activity to other industrial sectors. Our long existence is the result of our experience, our reliability and not only our customers' satisfaction but also their trust in Aries. Sales of equipment, assemblies and spare parts; technical consulting and assistance; marine engineering; maintenance; and laser tracker measurements.

Business areas:

- Naval: civil and military.
- Renewable energies: solar thermal and offshore wind energy.
- Aeronautics.
- Waste recycling.

Sales of equipment, assemblies, spare parts, maintenance and technical assistance.



### ARMANDO CALERO E HIJOS, S.L.

C/ Berlín, parc. H 4 Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Spain Phone: +34 968506478 www.acalero.es

- Industrial and naval blasting.
- Specialists at painting.
- Floor coverings.
- Passive fire protection.
- General polyester repairs.



#### **ASTILLEROS CANARIOS, S.A.**

Avda. Petrolíferas, s/n 35008 Las Palmas de Gran Canaria (Spain) Phone: +34 928479888 www.astican.es

Repairs and conversions shipyard located at Puerto de la Luz. It is equipped with a dry-dock system and lifting platform with capacity for ships of up to 36,000 DWT. This system and the seven ample docking areas comprise a total linear capacity of 1,360 m, which provides almost permanent availability. It also has 900 linear metres of repair berths with draughts from 8 to over 21 metres, thereby making it very convenient for afloat repairs. Any naval repair or conversion work can be carried out to full satisfaction: mechanical, steel, piping, surface treatments, tanks, propeller repairs, electrical, electronic, engines and any other specialised work.

Certifications ISO 9001 OHSAS 18001 ISO 14001 ISO 166002 PECAL / AQAP 2110









### CARPINTERÍA NUESTRA SEÑORA DE LOURDES, S.L.

Pol. Río San Pedro. C/ Venezuela, 26 11519 Puerto Real (Cádiz) Spain Phone: +34 956478264 www.nslourdes.es

Carpintería Nuestra Señora de Lourdes, S.L. makes interior works on all kind of vessels, manufacture of furniture, carpentry, installation, refits, repairs, maintenance and supplies for vessels, etc. "Turnkey" marine interior and insulation works.

#### FEJIMA, S.A.

C/ Ignacio Aznar, 48, La Palma 30593 Cartagena (Murcia) Spain Phone: +34 968554014 www.feiima.com

FEJIMA was established in 1949 in Cartagena, Spain. Since then, the company has followed a continuous path of expansion in the Spanish market. Currently, the FEJIMA group has offices in Cádiz and Alicante.

FEJIMA's activities are focused on the following areas:

- Repair and maintenance of rotating machines.
- Repair and maintenance of static machines.
- Maintenance, installation and repair of electrical equipment of high, medium and low voltage for global industries, ports and vessels.
- Comprehensive maintenance of electric power equipment.

The head office is located at Cartagena, where the workshops cover more than 9,000 m² in five buildings. It is equipped with everything necessary for performing our work with full guarantees.

### FELIPE DEL ROSARIO HERNÁNDEZ, S.L.

C/ Pinillos Izquierdo, s/n 35008 Las Palmas de Gran Canaria (Spain) Phone: +34 928462683 www.feroher.com

We perform naval and industrial mechanical work and equipment alignment, in addition to providing industrial lines and industrial assembly work; boiler work and pipe work for the naval and industrial sectors; maintenance of hydraulic and pneumatic equipment; maintenance of ship deck machinery; stainless steel furniture; plus lining work and machining work.

### FOROVE, S.L.

Avda. Gonzalo Navarro, 60 15573 Narón (A Coruña) Phone: +34 981328300 www.forove.es

Supplies and works mainly oriented towards the Armed Forces, shipyards and ancillary companies for the construction and maintenance of warships for the navy and merchant marines.

Manufacturing of over twenty patented products (portable water bomb for firefighting and bilge pumps, emergency respiratory equipment, bilge ejectors, etc.).

Certifications OHSAS 18001 ISO 9001 ISO 14001 Certifications ISO 14001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 45001 ISO 9001



### FRIZONIA REFRIGERACIÓN Y CLIMATIZACIÓN, S.L.

Pol. Ind. Fadricas, C/ Ferrocarril, 23, 25 y 41 11000 San Fernando (Cádiz) Spain Phone: +34 956593243 www.frizonia.com

FRIZONIA is a company that specialises in air conditioning and cooling systems. Our capabilities include the engineering, design, manufacturing and installation of HVAC systems (Heating, Ventilation and Air Conditioning) and cooling systems for the defence industry and for marine, offshore and industrial construction. With over 25 years of experience and presence in Brazil, Colombia, Spain and Mexico, we can guarantee that our systems are designed according to high standards of quality. We are able to provide optimal and suitable solutions for climate comfort, product processing and on-board equipment and instruments anywhere in the world and according to the highest demands for performance.



#### **GABADI. S.L.**

Avda. Jesús Fernández Pita, 53 15578 Narón (A Coruña) Spain Phone: +34 981397301 www.gabadi.com

Founded in 1989, Gabadi is a Spanish company engaged in repair services for all types of vessels. Currently, it provides high-quality, end-to-end solutions within the area of marine interiors, for both civil and military ships. It takes charge of all stages, from custom design and engineering to product manufacturing (panels, doors, furniture, etc.), including subsequent installation on board.

Moreover, it holds the necessary licences from the technologist GTT to execute both maintenance and new construction work on membrane tanks, whether for LNG storage or for use as a fuel. This activity has currently become one of its main lines of business. This achievement is the result of its permanent commitment to investing in RDI, one of the cornerstones of the company's vision.



#### **GABRIEL BALLESTER. S.L.**

C/ Londres, 74. Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Spain Phone: +34 968527569 www.gbsolutec.es

SOLUTEC, Gabriel Ballester S.L., was born in the shipbuilding sector in the year 1979 with the enthusiasm and long experience of its founder Mr. Gabriel Ballester López, giving professional start a task that continues to this day, growing gradually in other sectors such as maintenance Industrial, mechanical Assembly, manufacture of boilers. Transformation of ISO maritime containers and turnkey works, but keeping the infrastructure dedicated to the sector Naval. SOLUTEC has been adapting to the demand of the market, expanding facilities, machinery and staff to the sectors that has incorporated. With some facilities in the industrial zone of Cartagena, in the Industrial site Cabezo Beaza, SOLUTEC.



### GADITANA DE CHORRO Y LIMPIEZA, S.L.

Pol. Ind. Tres Caminos, parcs. 1, 2, 3 y 4 11510 Puerto Real (Cádiz) Spain Phone: +34 956888193 www.gaditana.com

Surface preparation, application of anti-rust treatments, painting and finishing work of tanks, ship hulls and new construction, in addition to scaffolding installations for shipbuilding, ship repairs, ship cleaning, naval boilers, metallisation and passive fire protection.

Certifications
OHSAS 18001
ISO 14001
ISO 9001
PECAL / AQAP 2110

Certifications ISO 9001 ISO 14001 ISO 45001 Certifications ISO 14001 ISO 9001 ISO 45001 Certifications ISO 45001 ISO 9001 ISO 14001



### **GAUZON IBÉRICA, S.L.**

Rúa Alonso López, 100, bajo 15401 Ferrol (A Coruña) Spain Phone: +34 981356813 www.gauzoniberica.com

Gauzón Ibérica is a company whose head office has been in Ferrol since 1992. With over 20 years of experience in the manufacturing, marketing and commercial representation of products for the military and civilian shipbuilding industry, it also handles the requirements for spare parts, supplies, equipment maintenance and logistics management for the Spanish Navy, the maritime service of the Civil Guard, the merchant marines, freight forwarders and other companies not related to the shipbuilding industry.



#### INDUSTRIAL DE ACABADOS, S.A.

C/ Cabrales, 12, entlo 33201 Gijón (Asturias) Spain Phone: +34 985355478 www.indasa.com

INDASA is a company that has been highly specialised in the treatment of metallic structures and in the application of coatings since 1968.

We have a team of highly qualified professionals and the necessary equipment and infrastructureZ to quickly and effectively respond to our customers' requirements. Our work focuses on the naval and industrial sectors. We are a registered provider of the Spanish Ministry of Defence and a regular collaborator of the US Navy. INDASA has the following offices in Spain: Gijón, Ferrol, Bilbao and Cádiz. It is also

constantly present internationally, with notable

work in Holland, France, Brazil, etc.



### INDUSTRIAS HIDRÁULICAS ROSPA, S.L.U.

Pol. Ind. Río San Pedro, sector 1A, parc. 2.8 11510 Puerto Real (Cádiz) Spain Phone: +34 956478667 www.ihrospa.com

Manufacturing, installation, maintenance and repair of naval and industrial mechanical, hydraulic and pneumatic machines and equipment.



### **INTAF PROMECAN, S.L.U.**

Ctra. de Cedeira, 209 15570 Narón (A Coruña) Spain Phone: +34 981397281 www.intaf.com

Intaf Promecan belongs to the Intaf Group, which is also formed by the companies Neodyn, Evolventia, Sincro Mecánica and Tecman. We provide specialised services and products in various industrial sectors, mainly metal working, which includes engineering, manufacturing of capital goods, machining, boiler works, surface treatments, assembly, industrial maintenance and repair, maintenance of rotating power transmission machines through the use of gears and comprehensive operations and maintenance services. We are highly specialised in the naval industry. both civil and military, and we also develop our business activities in other sectors such as energy, ports, quarries and wood.

Certifications ISO 14001 ISO 27001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110 ISO 45001

Certifications ISO 14001 ISO 45001 ISO 9001 PECAL / AQAP 2110 Certifications ISO 9001 ISO 14001 OHSAS 18001 ISO 3834



#### **METALOX DE CARTAGENA. S.L.**

C/ Viena, parc. H-26 30353 Cartagena (Murcia) Spain Phone: +34 968084100 www.metalox.es

Industrial and naval maintenance. Boilermaking installations, parts machining, manufacturing of hydraulic and pneumatic equipment, repair and installation of valves, welding on vessel hulls and structures, boiler works and machining, pipe fabrication and assembly, mechanical work, manufacturing and assembly of metal carpentry.



#### **METALUR TRES CAMINOS, S.L.**

Pol. Ind. Tres Caminos. C/ Choco, 17 y 18 11510 Puerto Real (Cádiz) Spain Phone: +34 956888163 www.metalur.com

Manufacturing, assembly and repair of naval and industrial metal products. Marketing, installation and maintenance or firefighting systems in the naval and industrial sectors. Recharge, re-sealing and maintenance of fire extinguishers.



#### **MOTORAZA, S.L.**

Pol. Ind. Urbisur C/ Severo Ochoa, 35 11130 Chiclana de la Frontera (Cádiz) Spain Phone: +34 956536472

A company founded in 1995, with extensive experience in naval repairs and jobs performed at the most important Spanish naval companies, including Navantia and Acciona. We perform ship repairs, especially on engines, compressors, pumps, pipes, and other hydraulic and pneumatic components.



### NORINVER MONTAJES E INGENIERÍA, S.L.

Pol. Ind. Vilar do Loco. R/ Xestal, 11 15621 Cabanas (A Coruña) Spain Phone: +34 981381504 www.norinver.com

Norinver Montajes e Ingeniería specialises in working for industrial firms that require maximum operational reliability and quality in their systems.

- Basic design and detailed electrical and electronic designs for vessels and industry.
- Electrical installations and electronics for vessels and industry.
- Design, construction and assembly of consoles, automation systems, distribution panels and starters.
- Complete maintenance of naval and industrial installations.
- Complete assembly of photovoltaic power stations.
- Electrical installations at solar thermal power plants.









#### PETER TABOADA, S.L.

Estrada Porto Cabeiro, 35 36815 Redondela (Pontevedra) Spain Phone: +34 986226622 www.petertaboada.com

Peter Taboada is a Spanish company engaged in the design and manufacturing of water treatment equipment for the marine sector, industry, pharmaceutical companies, etc. We specialise in the supply of reverse osmosis water generators for treating seawater, brackish water or tap water systems.

We design and manufacture standard units that supply from 2 to 200 m<sup>3</sup>/day, with an unbeatable delivery time. Our philosophy is: easy to install, operate and maintain with a robust design.

Because we design and manufacture the units at our own Spanish factory, we are very flexible and can adapt our equipment to all kinds of the customer requirements.

Also, we can provide other equipment for the naval sector, such as MGPS, UV and chlorination systems and bilge water separators.

### PINE INSTALACIONES Y MONTAJES, S.A.

C/ Astintze, 6A, 3ª planta, edificio Astintze Dpto. 308 48160 Derio (Vizcaya) Spain Phone: +34 944544792 www.pine.es

Pine, a leading company in electrical installations and with major national and international presence, has highly qualified personnel for carrying out electrical projects that require the highest level of performance and specialisation, therefore developing the corresponding services and supplies.

- Electrical installations in high voltage and low voltage.
- Manufacturing of electrical equipment.
- Instrumentation.
- Telecommunications and security systems.

### **PINTURAS ANSAPE, S.L.**

Avda. Bruselas, 147, A-6 30353 Cartagena (Murcia) Spain Phone: +34 968085005 www.ansape.com

Pinturas Ansape, S.L. is a company engaged in decorative, industrial and naval paint applications, currently with a professional team of 10 operators, 8 of whom are approved according to NORSOK M-501, "Paint Applicators Qualification Course", including 1 Senior Technician who specialises in the prevention of occupational risks. The services offered by Pinturas Ansape, S.L. are based on quality, respect and care for the environment and on the prevention of occupational risks in its services, while responding to the growing demands requested by customers. While we observe these guidelines, we apply the most appropriate solutions for each circumstance.

#### PINTURAS HEMPEL, S.A.U.

Ctra. de Sentmenat, 108 08213 Polinyà (Barcelona) Spain Phone: +34 937132898 www.hempel.es

Hempel is a global leader in the supply of paints and coatings for the industrial, marine, container, nautical and decorative markets. We venture on three key factors for helping our customers safeguard their installations longer: a major investment in R&D, advanced production techniques and professional advising on coatings.

Certifications ISO 9001 OHSAS 18001 ISO 14001 Certifications ISO 14001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 45001 ISO 9001









#### QUIMDUNAVAL, S.L.

C/ Oslo, parc. B-5. Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Spain Phone: +34 968522753 www.guimdunaval.com

A business located in Cartagena, with 34 years of experience engaged in naval, industrial and urban cleaning and maintenance. Management, transport and pre-treatment of oily waste.

#### **RODRITOL. S.L.**

Avda. de las Petrolíferas, s/n 35008 Las Palmas de Gran Canaria (Spain) Phone: +34 928460090 www.rodritol.com

- General electrical installations.
- Repair and maintenance of ships.
- Heating and cooling installations.
- Technical engineering services.
- Other energy production: production of electricity from thermal sources by photovoltaic panels.

#### SÁNCHEZ SUR. S.L.

Pol. Ind. Tres Caminos, C/ Dorana, 7 11510 Puerto Real (Cádiz) Spain Phone: +34 956884160 www.sanchezsur.es

Sánchez Sur, S.L. is engaged and specialised in naval repairs and supplies and the maintenance of electronic and communications systems. We provide our main customer (Ministry of Defence) with the maximum possible effectiveness, efficiency and quality in the services provided.

### **SEAPLACE, S.L.**

C/ Bolivia 5, bajo 28016 Madrid (Spain) Phone: +34 914585119 www.seaplace.es

Seaplace was established in 1980 as an engineering consultancy to offer its services to the shipbuilding and offshore industry. Since then and up to now, we have worked on numerous successful projects for both the civil and naval industries, which are outstanding for their innovative solutions of high added value, thereby achieving a great reputation both nationally and internationally. This success is mainly due to Seaplace's highly qualified personnel, whose expertise in project management and coordination, in addition to their design knowledge and subsequent development, together with experience and close collaboration with RDI, all add up to putting us at the cutting-edge of naval engineering.

Certifications ISO 14001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 9001 OHSAS 18001 Certifications OHSAS 18001 PECAL / AQAP 2110 ISO 9001 ISO 14001

Certifications ISO 9001



### **TECHNO PRO HISPANIA, S.L.**

C/ Real, 37, Los Barreros 30310 Cartagena (Murcia) Spain Phone: +34 868065994 www.tphispania.com

Techno Pro Hispania, as a part of the FIVA Group, is a company that began its business activities over 20 years ago. The Group is composed of several companies from different complementary sectors related to engineering and manufacturing. Techno Pro Hispania contributes to shipbuilding from its main business area: vessel design in its various stages.

Services for shipyards and design offices:

- Conceptual and contractual engineering.
- Basic and classification engineering.
- Production engineering.
- Detailed engineering.
- Integrated logistic support (ILS): configuration; logistic support analysis (LSA); logistic support analysis record (LSAR); reliability and maintainability, availability, reliability and maintainability analysis (ARM); RCM; FMEA; FMECA; Condition-based maintenance (CBM); documentation, provisioning technical documentation (PTD); NATO codification; and training.
- Project management.

Certifications ISO 9001 OHSAS 18001 ISO 14001



### **TÉCNICAS CARTAGENA, S.L.**

C/Berna, 9, Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Spain Phone: +34 968529321

- Manufacturing of metal parts and metal housings for pyrotechnic signals.
- Manufacturing and repair of metal locks.
- Boilermaking and parts assembly services in the industrial and naval sectors.



#### **TINCASUR SUR, S.L.**

Pol. Ind. El Trocadero, C/ Francia, s/n 11510 Puerto Real (Cádiz) Spain Phone: +34 956472723 www.tincasur.com

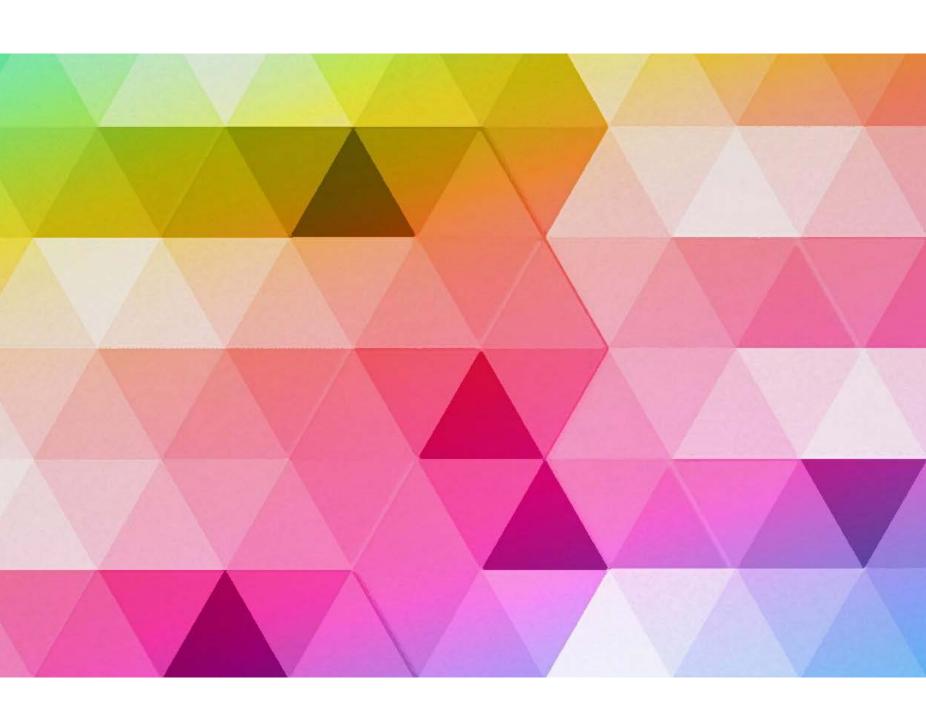
Since Tincasur Sur. S.L. was founded and after extensive experience in the fields of industrial cooling, combustion engines, hydraulics and pneumatics, it has broadened its horizons and goals in order to meet customer needs. Tincasur Sur's commitment to becoming a dynamic business within the industrial, naval and offshore sectors has borne its fruits. In the branches of welding and boiler works, machining, hydraulics, pneumatics, laser alignments, on-site machining, etc., some of our main customers include Navantia, Dragados Offshore, Acciona, Marina Barcelona 92, and Endesa Generación. All of the above allows us to offer a complete service for the needs of the industrial, naval and offshore sectors.

Certifications

ISO 9001

ISO 14001

Certificaciones ISO 14001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110





## Aeroespace Sector



### 102

Pol. Ind. de Bayas, C/ Ayuelas, 22 09200 Miranda de Ebro (Burgos) Spain Phone: +34 947049622 www.aciturri.com

### **ACITURRI AEROSTRUCTURES, S.L.U.**

### Aerospace Aerial systems & equipment

Aciturri is a Tier-1 aerospace company specialising in the design, manufacturing and assembly of high-tech aerostructures and engine components, thereby offering the market complete solutions in high-performance technologies, machining, joint technologies and special processes.

### C295/CN235 Main Body & Wing and Rear Fuselage Integration; Empennage **Assembly Jig**

Manufacturing, welding and assembly (engine support structure) and final integration, as well as all operational testing of the wing.

Manufacturing and integrated management of the assembly jig.







#### A400M Vane

Involved in development and in metal and composite manufacturing, both manual and automatic, until delivery to the customer.



### Wing to Fuselage Fairing

Responsible for the entire production chain from design, manufacturing and final assembly in metal and composite, both manual and automatic, until delivery to the customer.



### NH-90 Helicopter Structures, Sponson, Vertical Tail

Hand Lay-Up manufacturing and assembly. Full component delivered directly to FAL.



#### **EFA Fuel Tanks and Parts**

Manufacturing and welding of auxiliary fuel tanks.



### 104

Parque Tecnológico de Álava, C/ Leonardo da Vinci, 13 01510 Vitoria-Gasteiz (Álava) Spain Phone: +34 945185600 www.aernnova.com

### **AERNNOVA AEROSPACE, S.A.**

### Aerospace Aerial systems & equipment

Aernnova is a leading aerostructures company specialising in the design and manufacturing of aerostructures, the production of composite material parts, and metal components for aircraft and other vehicles.

### Development of Structural Components for Aircraft and Other Vehicles

The first flare dispenser to be designed and manufactured out of composite material.



Certifications ISO 9001 PECAL / AQAP 2110 UNE EN 9100 UNE EN 9120

Aeroespace Sector

### Fuselage Design and Development

Rear fuselage of the S-92 Sikorsky helicopter, with and without a hinged section for naval versions.



### **Autoclave Material Parts Production**

Carbon fibre-reinforced composite structure for the EC-135 helicopter.



### Wing Design and Manufacturing

Design and production of UAVs with 100 kg MTOW. The wing and structure are fully made of composite materials.



### **Production of Landing Gear Doors**

Landing gear doors made of composites, in addition to similar structures such as missile containers for which weight and mechanical properties are critical.





### Herospace & Aviation

### 106

Avda. Juan López de Peñalver, 17 29590 Málaga (Spain) Phone: +34 902060100 www.aertecsolutions.com

### **AERTEC SOLUTIONS, S.L**

### Aerospace

RPAS; aerial systems & equipment; simulation

Armament & ammunition Ammunition; missiles

Electronics, communications & ICT C4ISR

Logistics, ancillary & services Infrastructures

AERTEC Solutions is a 100% Spanish-owned engineering and technology firm specialised in aerospace and defence, with 20 years of experience. A workforce of over 700 professionals and presence in more than 40 countries.

AERTEC designs aerospace systems for aircraft, unmanned aerial platforms and high-dynamic vehicles, for both civilian and military use.

In-depth knowledge of technologies for guided control of high-dynamic aerial vehicles and lightweight tactical RPAS designed in-house with proprietary technology.

The TARSIS 75 and TARSIS 25 small, Class I RPAS have been designed for observation and surveillance applications, and they feature the integration of micromissiles.

Certifications ISO 9001 ISO 14001 ISO 45001 UNE EN 9100

### Fixed Wing and Rotary Wing Unmanned Aerial Vehicles. MTOW of 75 kg.

Fixed wing RPAS with a MTOW of 75 kg. Maximum flight time of 12 hours. Payload capacity of 12 kg. Operating range of up to 150 km. Integrates different types of optional sensors and functionalities, including detection and automatic tracking of targets with gyro-stabilised EO + IR + LRF cameras. Especially suited for border surveillance missions, emergency support, artillery fire correction and tactical deployment. Capacity to integrate the A-Fox guided micro-missile designed and produced by AERTEC.



### Fixed Wing or Rotary Wing Unmanned Aerial Vehicles. MTOW of 25 kg.

Fixed wing RPAS with a MTOW of 25 kg. Maximum flight time of 6 hours. Payload capacity of 5 kg. Operating range of up to 150 km. Integrates different types of optional sensors and functionalities, including detection and automatic tracking of targets with gyro-stabilised EO + IR cameras. Especially suited for border surveillance missions, emergency support, artillery fire correction and tactical deployment. Capacity to integrate the A-Fox guided micro-missile designed and produced by AERTEC.



### **RPAS Simulators**

Simulation environment for RPAS. It includes an actual autopilot embedded as hardware in the loop (HIL), which makes the simulation highly realistic. It can be custom configured by the number of working stations and functionalities.



### **Weapons Systems**

Air-to-surface, semi-active laserguided micro-missile. Systems can be incorporated to the TARSIS 25 and TARSIS 75 platforms.



### **SAL**, intermediate and IR Terminal Guidance Systems

Fully modular, semi-active laser-guided system. It allows the integration of a laser guidance system on unguided rockets and bombs. The system can be incorporated to different platforms and for different applications through minor adjustments in the on-board software.



# **AIRBUS**DEFENCE & SPACE

### 108

Avda. de Aragón, 404 28022 Madrid (Spain) Phone: +34 915857000 www.airbusdefenceandspace.com

#### **AIRBUS DEFENCE AND SPACE, S.A.U.**

### Aerospace

Aircrafts; RPAS; aerial systems & equipment; simulation; satellites; ground segment; satellite systems & equipment; maintenance & life cycle support; ancillary industry & spare parts

Electronics, communications & ICT Electronic warfare; systems & equipment; ICT

Consulting & engineering Consulting & engineering

Airbus Defence and Space, S.A.U. forms a part of the "Military Aircraft" business line of Airbus Defence & Space (ADS), one of the three divisions of the Airbus Group.

ADS is the European leader in the defence and space industry, it is the second-largest company in the space industry in the world, and it is one of the top ten global defence companies.

Military Aircraft designs, develops and delivers military aircraft, including operational support. It is Europe's leader in fixed-wing military aircraft, as well as one of the global leaders in combat, transport and tanker aircraft. ADS is also a key industrial player in the development of unmanned aerial systems.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 PECAL / AQAP 2210 ROD / 001 UNE EN 9100 UNE EN 9110 EASA PECAL / AQAP 2310

#### A400M Aircraft

The A400M is an all-new military transport aircraft designed to meet the needs of the world's Armed Forces in the 21st Century. It is able to fly higher, faster and farther than its predecessors, while retaining its high manoeuvrability and capabilities at low speeds for airfields with short, soft or rough runways. It is perfect for both tactical missions and strategic/logistics missions.



### **In-flight Refuelling Aircraft**

The A330 MRTT is the only new-generation strategic tanker/ transport aircraft that is available currently. The A330 MRTT is offered with a choice of proven air-to-air refuelling systems, including an advanced Airbus Military Aerial Refuelling Boom System (ARBS), a pair of under-wing hose and drogue pods or a fuselage refuelling unit.



### EF2000 Aircraft

The Eurofighter Typhoon is the most advanced new-generation multi-role combat aircraft in the market. Eight countries (Germany, United Kingdom, Italy, Spain, Austria, Saudi Arabia, Oman and Kuwait) have already ordered the Eurofighter. With 719 aircraft under contract and 571 on order, the Eurofighter is currently the largest military procurement programme in Europe. Its high technology strengthens the position of the European aerospace industry in the international market.



### C-295 Aircraft

The C-295 is the ideal aircraft for military and civilian missions, such as humanitarian aid actions, maritime patrols and environmental surveillance, among others. This medium-sized tactical aircraft provides the broad versatility and flexibility required for transporting personnel, troops and bulky/palletised cargo, in addition to casualty evacuation, communications and logistic tasks and certified air-dropping capabilities. It can carry up to 9 tonnes of payload or up to 71 people.



### **CN-235 Aircraft**

The CN-235 is the most economical aircraft in the light and medium aircraft field for military and civilian missions in benefit to society, such as humanitarian actions, maritime patrols and environmental surveillance, among others. This medium-sized tactical aircraft provides the broad versatility and flexibility required for transporting personnel, troops and bulky/palletised cargo, in addition to casualty evacuation, communications and logistic tasks and certified air-dropping capabilities. It can carry up to 6 tonnes of payload or up to 51 people.



# **AIRBUS**

Ctra. de las Peñas, s/n, km 5,300 02006 Albacete (Spain) Phone: +34 967850700 www.airbus.com

### AIRBUS HELICOPTERS ESPAÑA, S.A.U.

### Aerospace

Helicopters; aerial systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Airbus Helicopters España is the Spanish subsidiary of Airbus integrated logistics support and life cycle support for helicopters.

### **NH90** Helicopters

A tactical transport helicopter designed for all Spanish military forces and as a common platform for other NATO countries. therefore integrating 21st-century technologies.



**Aeroespace Sector** 

Certifications ISO 9001 PECAL / AQAP 2110 PECAL / AQAP 2210 **UNE EN 9100 UNE EN 9110** PECAL / AQAP 2310

### Helicopters. The company manufactures structures and airframes, assembles aerostructures and provides

### **Systems Software, Structure** Manufacturing and in-Service **Support**

- Design, development and maintenance of on-board software and the integration of mission equipment for helicopters, including rigs for the NH90 and Tiger, flight tests and certification/qualification.
- Manufacturing of aeronautical structures such as the rear fuselages of all Airbus Helicopters models and the front fuselage of the NH90.
- Service and support for Airbus helicopters and for the military fleets of other manufacturers.



### **Training**

Training centre for pilots and technicians for the entire range of Airbus Helicopters.





### **TIGER Helicopter**

An attack and escort helicopter that integrates weaponry, mission systems and military communications in a modern. versatile and stealth weapon system.





C/ Juan Olivert, 24, Parque Tecnológico Aerópolis 41300 La Rinconada (Sevilla) Spain Phone: +34 954189010 www.airtificial.com

### **AIRTIFICIAL AEROSPACE & DEFENSE ENGINEERING, S.A.U.**

### Land

Systems & equipment

### Aerospace

RPAS; aerial systems & equipment; maintenance & life cycle support; ancillary industry & spare parts

Electronics, communications & ICT Radars; electronic warfare; C4ISR; surveillance & security; simulation

Airtificial Aerospace & Defense is a technological company engaged in the following activities:

- The design, development and manufacturing of electronic equipment and electrical systems.
- The manufacturing of parts and assemblies out of composite materials.
- Production engineering, software development and tooling services.

Airtificial Aerospace & Defense is part of the Airtificial Group, with international presence in the US, China, Mexico, Germany, Poland, France and Spain.

### **Communications Systems of Land Vehicles**

An autonomous UGV convoy can be operated by semi-autonomous and autonomous remote control. both on roads and in unstructured environments, with obstacle detection and prevention and satellite communications with the base station.

Certifications **OHSAS 18001** ISO 9001 PECAL / AQAP 2110 UNE EN 9100 ISO 14001 PECAL / AQAP 2210



# Naval Command and Control Systems

SCOMBA is a flexible and scalable combat system that provides the required solution for a wide range of various warships. It is currently implemented in various vessels such as the OPV or the LHD. The communality between the components of the various SCOMBA versions offers undisputed advantages from the point of view of simplification and lower costs for the life cycle support service provided to naval units that may engage in different missions while sharing part of the software.



### Systems Engineering: Hardware, Software and Electronics

This modem is a professional solution for systems communications. It is based in DVB-S/S2, and it allows configuring several kinds of modulation. The communications channel therefore adapts better up to 32-APSK modulation. It has IP connectivity and interoperability with other communication modems. With encapsulated ULE that increases its communications efficiency. It allows detecting several errors during communications thanks to a monitoring and control system.



### Design and Development of Aviation Communications Systems

- The objective of the IVS (Integrated Validation System) is to validate the data of Eurofighter missions.
- T2 and T3 RIG: developed to check the correct operation of the avionics of the EFA (T2 and T3 versions, respectively).
- COMMS T1 and T2 and export audio COMMS: their purpose is to check the correct operation of the radio equipment and the CAMU (Communication and Audio Management Unit) in the T1, T2 and export audio versions (radios installed in the Saudi Eurofighter).



### **Engineering Services**

- On-site maintenance and operation.
- Re-engineering and manufacturing of proprietary or external equipment.
- Software and hardware updates and obsolescence management.





### AYESA AIR CONTROL INGENIERÍA AERONÁUTICA, S.L.

### Aerospace

RPAS; aerial systems & equipment; satellite systems & equipment; maintenance & life cycle support

Electronics, communications & ICT Cyber defence; ICT

Services, logistic & auxiliary Infrastructures; services

Consulting & engineering Consulting & engineering

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Ayesa Air Control provides aeronautical engineering services in the whole life cycle of aeronautical products, including design, manufacturing engineering and after-sales services. Our speciality is the A400M and other aircraft manufactured by Airbus D&S. The company holds DOA privileges and works under UNE:EN 9100 certification. We are experts in the use of new technologies and information systems applied to the aerospace industry. We also have major experience in applying lean manufacturing techniques in the industry.

### Certifications EASA ISO 9001 ISO 14001 UNE EN 9100

# Aeronautical Engineering Services

Aeronautical engineering services covering the whole life cycle of aeronautical products. EASA DOA Part21J.428 and UNE:EN 9100 certification. Experts in the A400M.



### **Software Engineering**

Specialised engineering in communications and information technologies, especially big data, business analytics, special software development, data management, DPCs and cybersecurity.



# **Civil Engineering and Infrastructures**

Civil engineering and architectural services for military in general and air bases in particular.



Partida de la Almaina, 92 03110 Mutxamel (Alicante) Spain Phone: 0034 965663835 www.babcockinternational.com/

# BABCOCK MISSION CRITICAL SERVICES ESPAÑA. S.A.U.

### Aerospace

Aerial systems & equipment; maintenance & life cycle support; ancillary industry & spare parts

Logistics, ancillary & services Services The management of MRO programmes and the modernisation of both military and civil aircraft at Babcock España are underpinned by more than half a century of experience, making us one of the pioneering and leading companies in this sector in Spain. Babcock performs all support activities during the life cycle of a helicopter (scheduled revisions, overhauls, improvements of capabilities and the implementation of modifications). In order to be able to carry out all these activities, the company has the following certifications: DOA (Design Office), POA (Production), MDOA (Military Design) and CAMO ++ (airworthiness management), as well as AQAP-120/Pecal 2110. We are a "Service Station Centre" for the world's leading helicopter manufacturers.

# Helicopter and Aircraft Maintenance

Babcock performs all support activities during the life cycle of a helicopter (scheduled revisions, overhauls).



Certifications ISO 14001 ISO 9001 OHSAS 18001

# Aeroespace Sector

# **Design of Aircraft Modifications and Repairs**

Management of aircraft modernisation programmes, both for military and civilian use (improvement of capabilities and implementation of modifications).



### **Pilot Training**

ATO Training Centre: fixed and rotary wing, operations training, medical technicians, console and winch operators.



### **Aircraft Operation**

Emergency services: SAR, HEMS, firefighting, Oil & Gas, Surveillance and Civil Protection.



# HĒROUX DEVTEK

### **COMPAÑÍA ESPAÑOLA DE SISTEMAS AERONÁUTICOS, S.A.**

### Aerospace

RPAS; aerial systems & equipment; maintenance & life cycle support

> Certifications ISO 9001 PECAL / AQAP 2110 **UNE EN 9100** PECAL / AQAP 2310 **UNE EN 9110** ISO 14001 PRI-NAPCAD

### Paseo John Lennon, 4 28906 Getafe (Madrid) Spain Phone: +34 916240104 www.cesa.aero

CESA, now operating as Héroux-Devtek Spain (HDS), is a company with over 30 years of experience in Spain, specialising in the design, development, qualification, manufacturing, assembly, support, repair and overhaul of landing gear, actuation systems, hydraulic systems and flight control and electromechanical equipment for commercial and military platforms.

HDS is involved in latestgeneration, high technology projects at the European and international level, such as the Eurofighter, the A400M, the KF-X and the T625, thanks to its extensive experience in military and commercial programmes such as the C101, C212, CN235, C295, A400M, A330MRTT of ADS: the A330/340, A330-200F, A340, A380 and A350 of Airbus; the Sikorsky S-92 helicopter; Embraer's KC-390; and the TAI Hürkus Trainer. Moreover, it is developing key components for the HTT40, the C295 FSWAR, the MA700 and the LCH/LAH, among others.

### Flight Control Systems (EF-2000, C-295, Hürkus, Cleansky I and II)

HDS has proven expertise in the development and manufacturing of flight controls. One example is the foreplane actuator (primary flight control system) that is developed and manufactured for the Eurofighter.

The FT4B is an R&D project consisting in the development of a primary flight control system based on latest-generation fly-bywire technology. It consists of a highly complex servo valve and electromechanical actuators.



### Landing Gear: MLG & NLG (C101, C212, CN235, C295, A400M, S92,T625, ATLANTE)

HDS manufactures the landing gear for ADS on the C212, the CN-235 and the C-295 aircraft, and it also manufactures the landing gear for Sikorsky's S92 helicopters and for the T625 of Turkish Aerospace Industries (TAI).

CESA has also developed the main and nose landing gear for ADS's ATLANTE UAV. It uses an oleo strut and a light carbon fibre spring.



# Cargo Actuation Systems HDS has particular expertise

HDS has particular expertise in ramp systems with military applications. HDS develops the complete A400M ramp system (Stabiliser Strut, Cargo Door, Ramp Toe, Air Deflector, Locking Latching) for ADS.

It also develops and is responsible for the components that are comprised in the ramp system on the following aircraft: CN-235, C-212, C-295 and S-92 Sikorsky. In all the aforementioned cases, HDS has also developed both simple and telescopic ramp actuators, civil and military door actuators, manifolds and control modules and panels (A330/A320).



### Cargo System - A400M

HDS is in charge of the manufacturing and qualification of the Extraction Parachute Ejection System (EPES) and the Tow Plate. In addition, HDS is in charge of the development, manufacturing and qualification of the Mobile Crane equipment, which is part of the Cargo Crane System. This crane is a single-rail crane capable of lifting loads of up to 5,000 kg from the ground, or a truck or other transport, onto the A400M ramp. This crane system allows hoisting and transferring military cargo onto the ramp.



### ARBS Actuation System – Tail Boom (A330 MRTT – HOIST, ERA, BRSU)

HDS supplies two important electromechanical systems for the Airbus Defence and Space ARBS A330 MRTT refuelling system programme, known as Tail Boom. These electromechanical systems include the hoist system, which raises the boom, and the ERA system, which extends and retracts the boom. Furthermore, HDS supplies the load measuring system (BRSU).



# Crisa

# 120

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www.crisa.es

### **COMPUTADORAS, REDES E INGENIERÍA, S.A.U.**

### Aerospace

Aerial systems & equipment; ground segment; satellite systems & equipment

Services, logistic & auxiliary Infrastructures

CRISA, an Airbus Defence and Space Company, is one of the leading suppliers of on-board electronics for space, both for space agencies and international organisations as well as launchers and satellite integrators. CRISA has also developed its skills in engineering and project management for ground segment projects. These projects include the design of network architecture for secure communications: the implementation, operation and maintenance of controls; archiving and cataloguing applications; and remote operation. With thirty years of experience in the sector and over 800 units in orbit, CRISA has proven experience at providing highly reliable solutions for its customers.

### **Flight Software**

Mechanism control and guidance: Helios 2 MCM.

Software of the MCM (Mechanism Control Module).

Basic and application software in charge of controlling various satellite mechanisms (motors), such as trajectory control, oscillation correction, sight change operations, calibrations, etc.

Developed under the framework of the Helios II/Spot-5 project.

It was written in C and assembled for the 80C32 microcontroller.



Certifications ISO 14001 UNE EN 9100 ISO 9001

# Power Electronic Equipment (PCDU, PCU, Converters)

The PCU is power management equipment designed for GEO telecommunications applications. It controls the satellite power from the solar array in the sunlight mode and the power from 1 or 2 batteries during the eclipse mode. It generates a fully regulated 50-V bus for serving small- to medium-sized satellites with power requirements ranging from 2 kW to 6 kW, compatible with the electric propulsion and TDMA payload operation modes. It is based on a modular design and can be easily adapted to different power requirements.



### Infrastructure, Information Technology and Space Sector Antennas

Contribution to the Spanish ground segment infrastructure of the Helios military earth observation satellites. This centre manages user requests, and it produces, catalogues and archives images. Contribution: definition and design of the infrastructure, communications, integration and validation, including IFA and operational support; software development for management of the catalogue and archiving; and maintenance in operational conditions (24/7 availability).



### Instrumentation, EGSE

This EGSE executes the complete test sequences for the A5 SE and generates the test report automatically. It is composed of two racks. The Control rack includes the computer, all automatic instrumentation, the DC power bus, the transient generator and the MIL-STD-1553 DC bus. The loads rack includes different types of electrovalves and pyroload simulators. Automatic tests include behavioural analysis during transient testing.



### Diverse Telecommunications Equipment of the Space Sector

The CMG system provides satellite pointing agility generated by a gyroscopic effect based on hightorque capacity actuators.

The CMG-E is the electronic part of the system, and it is used to monitor and control the gyroscopic actuator. Functions:

- Momentum wheel speed control.
- Gimbal movement control.
- Satellite data management interface.
- Power supply for internal needs as well as for the motor interfaces.
- Protections.
- Motor braking.





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### **EQUIPOS INDUSTRIALES DE MANUTENCIÓN. S.A.**

### Land

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Aerospace

Aerial systems & equipment; simulation; auxiliary industry & spares

Armament and ammunition
Maintenance & life cycle support; auxiliary
industry & spares

Electronics, communications & ICT Systems & equipment

EINSA is a Spanish company founded in 1979, with over 30 years of experience in the aviation industry. During this time, it has established itself as a leader in the design, development, manufacturing, installation and after-sales support of the most technologically advanced military and civil Ground Support Equipment ("GSE") for aircraft. Since its creation, EINSA has maintained a continuous improvement policy based on its engineering experience, its expertise and its core competencies developed

the design, development and manufacturing of more than 230 civil and military vehicles and equipment.

Certifications

in numerous areas such

as mechanics, hydraulics,

electronics, explosive atmosphere

protection, EMC/EMI protection,

etc. This approach and EINSA's

competencies have resulted in

ISO 14001 ISO 9001 PECAL / AQAP 2110 UNE EN 9100 PECAL / AQAP 2310

### MM-1A All-Terrain Vehicle

EINSA's model MM-1 lightweight, multi-purpose all-terrain vehicle with high mobility has been designed to meet the tactical and logistic requirements of today's armed forces. This vehicle has also been designed to be used as a support platform for more specialised systems such as telecommunications, anti-tank warfare, tactical reconnaissance missions, mobile fire control, transporting the wounded, firefighting, troop transport, towing, etc.



### **Aircraft Tow Tractors**

The TA-5 and TA-6 tow tractors are compact and robust vehicles designed especially for pulling/ pushing and positioning ancillary equipment at airports, docks and industrial plants, as well as aircraft at air bases or airports.



# **Self-propelled and Towed Lift Platforms**

The EINSA loaders are designed to lift and transfer loads to aircraft and helicopters.



### Self-propelled and Towed Electric Generator Unit

The GPU is a compact, selfpropelled model designed to supply electric power to all types of aircraft and helicopters.



# **VANE Pneumatic Aircraft Engine Starters**

The self-propelled, combined electric/air starter unit (VANE model) is a versatile, self-propelled vehicle especially designed to provide pneumatic power and electric current for a wide range of aircraft, thus offering the maximum flexibility, reliability, operability and maintainability that is required for military and civilian applications.



# 124

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### HISDESAT SERVICIOS ESTRATÉGICOS, S.A.

Aerospace Satellites services

Aeroespace Sector

Hisdesat was founded in 2001 as a government satellite services operator in the areas of defence, security, intelligence and foreign affairs. It provides secure satellite communication services for government bodies of different countries, and it currently has constellations of earth observation satellites and maritime traffic information via satellite (AIS). It is a company with high strategic value for the Spanish government. In recent years, its intense activity and advanced programmes have resulted in the generation of significant industrial returns for the national space industry. Its body of shareholders is institutional.

### Certifications ISO 9001 ISO 14001 ISO 27001

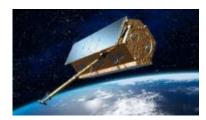
### **Satellite Communications**

Government communications through SpainSAT and XTar-Eur in the X and Ka bands. As well as the satellite-based maritime traffic information system (AIS), which receives signals from vessels that are equipped with this system, thereby obtaining information for government, maritime and port authorities.



### **Earth Observation**

The PAZ (radar) and Ingenio (optical) satellites will operate in the Earth Observation field and are designed for multiple purposes: intelligence, environmental monitoring, the protection of natural resources, military operations, enforcement of international treaties, surveillance of the land surface and high-resolution mapping.





Parque Tecnológico de Zamudio, Ed. 300 48170 Zamudio (Vizcaya) Spain Phone: +34 944662100 www.itpaero.com

### ITP AERO, S.A.

### Aerospace

Aerial systems & equipment; maintenance & life cycle support; auxiliary industry & spares ITP is a global leader in its segment in the aircraft engine market, and it is currently the ninth largest aircraft engine and components company in the world by revenue.

The company has evolved throughout its history, going from a single defence programme (the EJ200 engine for the Eurofighter) to 19 programmes in commercial and defence aviation. Some of ITP's activities include design, research, development, manufacturing and casting, as well as the assembly, testing and maintenance of aeronautical engines and industrial turbines.

# **Turbine Casing**

ITP Aero manufactures turbine and compressor casings, ranging from small casings up to the large LPT casings for widebody aircraft engines. ITP Aero uses exclusive high-speed machining technology to simultaneously achieve the required level of intensive material removal and design tolerances, with diverse materials that include nickel alloys, titanium alloys and steels.

Certifications PECAL / AQAP 2110 ISO 14001 ISO 9001 **UNE EN 9100 UNE EN 9110 EASA** PECAL / AQAP 2310





# **Diverse Components for Aircraft Turbines/Engines**

- Vanes: ITP Aero produces turbine vanes (and vane segments) for commercial and defence jet engines, in addition to industrial gas turbines.
- Compressor rotors: ITP Aero specialises in a wide range of complex compressor rotors.
- Turbine discs and shafts: ITP
   Aero produces turbine discs for
   a number of civilian and military
   applications.
- Complex fabricated structures:
   ITP Aero provides a wide range of complex fabricated structures.



### **External Engine Ducts**

ITP Aero manufactures a large number of rigid ducts for hydraulic, fuel and oil systems for both the fuselage and engines. The materials used include titanium, nickel, steel and aluminium based alloys. In addition, ITP Aero manufactures special applications of flexible pipes and air ducts with flexible joints.



### **Turbine Exhaust Nozzles**

The full-3D (pitch & yaw) thrust vectoring nozzle (TVN) is a convergent/divergent type nozzle based on ITP Aero's patented three-ring system, which enables thrust vectoring and altering the throat and divergent section exit areas.



### **Aircraft Turbines and Engines**

ITP Aero has the capacity to offer engineering services for low-pressure and propulsion turbines that are capable of balancing efficiency, weight, noise level, cost and life cycle. ITP Aero's broad engineering capability allows it to offer a wide range of activities in the field of turbines, from design to analysis, support and the development of assistance for engineering.





# 128

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### **LANGA INDUSTRIAL, S.A.**

### Land

Systems & equipment; auxiliary industry & spares

Aerospace Auxiliary industry & spares

Logistics, ancillary & services Field logistics

Langa Industrial S.A., a company founded in 1970, has become a global benchmark in the design and manufacturing of ground support equipment for industry in general and defence, with a wide range of equipment, both for maintenance and handling of most current aircraft.

# Aircraft Ground Equipment (AGE) Aeronautics

Langa Industrial is one of the main GSE designers and manufacturers in the world, manufacturing a wide range of equipment for the majority of existing aircraft and helicopters. Its most notable equipment includes hydraulic jacks, platforms, stairs, towbars, transport/supply carts, weighing systems, de-icers, etc. It also designs general and custom tools and systems for specific customer needs.



Certifications PECAL / AQAP 2110 ISO 9001

# Spare Parts for BMR / TOA Sapper Combat Vehicles

Langa Industrial designs and manufactures hydraulic systems and implements for armoured military vehicles, such as pusher blades, stabiliser blades and hydraulic cylinders in general. We also manufacture lifting systems for maintenance on these vehicles.



### **Logistics Containers**

Air-transportable, FPU tactical logistic storage system based on individual modules of interchangeable drawers and racks to facilitate the deployment of the Armed Forces.





### **SENER AEROESPACIAL, S.A.**

### Aerospace

Aerial systems & equipment; satellites; satellite services; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Armament and ammunition

Missiles; maintenance & life cycle support; auxiliary industry & spares

Electronics, communications & ICT Systems & equipment; maintenance & life cycle support

# 130

Avda. de Zugazarte, 56 48930 Getxo (Vizcaya) Spain Phone: +34 944817500 www.aeroespacial.sener

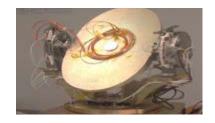
SENER is an engineering and technology group founded in 1956 and known for its innovative solutions. In defence, SENER is a supplier of electromechanical and optical systems, systems for submarines and helicopter modernisation services. SENER has the capability to offer a complete service: design, production, mass production, systems integration and product maintenance throughout the entire life cycle. SENER's ability to take on multidisciplinary projects means that it can lead and collaborate on defence programmes involving integrated systems. After almost five decades in the aerospace industry, SENER has progressively increased its level of responsibility to the point of becoming the main contractor of complete programmes.

Certifications ISO 13485 ISO 14001 ISO 9001 ISO 45001 PECAL / AQAP 2110 PECAL / AQAP 2210 PECAL / AQAP 2310 UNE EN 9100 ROD

# RF and Communications Systems

The development, integration and verification of electromechanical systems and servo systems, including the electronic control equipment for those systems.

SENER is a benchmark within the context of the European Space Agency (ESA) in mechanical systems for deployment, pointing, scanning and positioning for scientific satellites, space probes and observation satellites (MTG, Flip Mirror).



### Missile CAS

Development, integration and verification of actuation and control systems.

SENER, as the European centre of excellence in the design and development of actuation and control systems for the aerospace and military industry, develops and produces solutions for the control of aerodynamic surfaces, for deployment and locking mechanisms and for missiles (IRIS-T, METEOR).



### **Avionics**

Development, integration and validation of high-performance digital systems for intelligence applications in communications and sensor management.

SENER develops electronic image processing equipment for the Litening and RecceLite pods used in the Eurofighter and Tornado combat aircraft (IPU-EF), while also providing them with communications functions through a data link (data link via radio), IPU-DL.



### **Integrated Systems**

Life cycle management of complex systems.

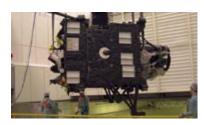
SENER has provided its support to the Spanish Air Force during integration of the IRIS—T system on the EF18, and it is the main contractor for the Taurus KEPD 350, consequently providing assistance during integration of the missile on the EF18.

In 2011, the Spanish Navy awarded SENER the life extension programme of seven Augusta Bell AB-212 helicopters.



# **Electromechanical Systems** and Structures

SENER manufactures rotary and linear actuators, deployment systems (radars, large structures and Booms), pointing and scanning systems, optical instrumentation mechanisms, mechanisms for telescopes, satellite antenna sub-systems, electronic control equipment, mechanisms for special applications (micro-positioners, scanners, filter wheels, shutters and flip-flop and calibration mechanisms) and ground support equipment.





# 132

C/ Isla de la Palma, 36 28703 San Sebastián de los Reyes (Madrid) Spain Phone: +34 916518227 www.scrdrones.com

### SISTEMAS DE CONTROL REMOTO, S.L.

### Aerospace

RPAS; aerial systems & equipment; maintenance & life cycle support

SCR is a leading Spanish company that designs, produces and operates unmanned aerial, land and naval systems. In its 25 years of activity, SCR has sold over 950 platforms and performed over 2,500 services for domestic and international customers.

SCR is notable for being directly present in all the key activities of the value chain in the unmanned systems sector, for its firm commitment to innovation and technological development and for the close relationship it maintains with its customers, with whom it develops solutions adapted to each need. Our manufacturing capacities provide maximum versatility and flexibility in our developed solutions, which are adapted to the objectives of each Project.

### Air, Naval and Ground Targets

SCR is a global benchmark thanks to its extensive international experience. The reliability, flexibility and performance of its systems make it possible to meet the most exacting requirements and adapt to the needs of every customer, including the integration of different types of loads. Our product catalogue includes, among others, the SCRAB and ALBA aerial target families, as well as the RRS-1 terrestrial target and the SPAYK Unmanned Surface Vehicles for naval targets.



Certifications ISO 9001 ISO 14001



# SCRAB III Turbojet Target Drone

SCRAB III is a target drone designed and developed to meet the needs detected by SCR during its extensive operational experience to achieve a subsonic, long-range and high-speed target drone.

This target drone has been designed for military training operations with long-range airdefence systems. The SCRAB III is powered by jet engines to reach speeds of up to 390 knots, and it incorporates an autopilot that allows it to run missions completely autonomously, accurately and reliably, from launch to recovery.



### **ATLANTIC RPAS**

The Atlantic is a medium-range and high-performance RPAS manufactured out of composite materials and specially designed for ISTAR missions (intelligence, surveillance, target acquisition and reconnaissance). Its simplicity and reliability mean that only two people are needed to operate it. Atlantic was recently acquired by the Spanish Ministry of Defence after numerous assessment campaigns with the Spanish Army.



### **TUCAN RPAS**

Tucan is a compact and lightweight mini RPAS that resulted from SCR's commitment to innovation. It has a modular and compact structure manufactured out of composite materials according to the most demanding quality requirements. Tucan is notable for its versatility and allows the integration of multiple gyro-stabilised loads. Just like the Atlantic, this RPAS was recently acquired by the Spanish Ministry of Defence after numerous assessment campaigns with the Spanish Army.



### **Specialised Services**

Thanks to its extensive experience and in-depth knowledge of the sector, SCR can support its customers in the majority of their key processes: from the design and production of platforms to training or operational services, including technical and regulatory consulting services, flight tests or the integration of equipment and systems.





# 134

C/ Julián Camarillo, 4, edif. B, 4° D 28037 Madrid (Spain) Phone: +34 915533865 www.telespazio.es

### **TELESPAZIO IBÉRICA, S.L.U.**

Aerospace Satellite services; ground segment

Electronics, communications & ICT

Telespazio Ibérica is a leading company in the field of geomatics, with the objective of developing innovative technological solutions with high levels of quality and using a highly specialised team.

Telespazio Ibérica offers a wide

Telespazio Ibérica offers a wide range of solutions focused on the development and implementation of territorial information systems, based on the convergence of technologies such as GIS, LBS (Location-Based Systems), remote sensing techniques, basic cartography and thematic mapping. Its technological solutions, based on different types of platforms, are fully integrated thanks to the extensive experience acquired in the processing of satellite data and map production.

# Cartography at 1:10,000 and 1:50,000 scale by Satellite Image

Mapping allows us to visualise a territory through geographic maps that contain layers or sources of information about the elements of the territory. Said mapping can be derived from orthophotos, thereby generating 2D or 3D mapping if we add height information to each element or layer.





Certifications ISO 14001 ISO 9001

# Geographic Information Systems (GIS)

Applications based on Geographic Information Systems (GIS) provide the spatial dimension. The visualisation of this information in applied cartography allows the differentiated management of operations and assets distributed in different sectors of activity such as: network management, management of large spaces, efficient public management, support for security and emergency functions, logistics and mobility, in addition to commercial and risk management.



# **Generation of Digital Models** of Elevations and Orthophotos

An orthophoto is processed from an aerial image (orthophoto) or satellite (orthoimage) through the process of orthorectification. This process is the geometric processing of georeferencing and the correction of distortion due to the terrain, which allows making measurements on the image as if it were a map.



# Analysis and Development of GNSS Applications

Telespazio Ibérica offers expert consulting on the definition and development of downstream GNSS applications, based on our extensive experience in GNSS and on the analysis of key PNT sectors, mainly related to the introduction of both EGNOS and Galileo in market segments such as: roads, drones, aviation, maritime, railways and agriculture, among others. To carry out these activities, Telespazio Ibérica bases its consulting services on its in-depth knowledge of the EGNOS and Galileo systems: technical features, detailed architecture, performance and the added value provided for resilient PNT solutions and critical applications and services in the various applicable domains.



### Galileo User Services and GNSS Service Centre Management

- Coordination of the GNSS Service Centre (GSC).
- User services activities.
- Definition of the activities plan designed to increase the adoption of Galileo and the perimeter of services at the GSC in various domains.
- Promotion activities in the various market segments: contact with key stakeholders, forums, user groups and manufacturers.
- Market studies and analysis of user requirements and technologies.
- Support for the evolution of GSC services (specification of new services, pilot projects).
- Support for operations (centre of expertise) and the development of GNSS applications; training for user communities and continuous improvement.





# AEROSPACE ENGINEERING GROUP, S.L.

Pol. Ind. El Campillo, bloque 1D 48500 Abanto Zierbena (Vizcaya) Spain Phone: +34 946363711 www.aerospacengineeringroup.aero

The Aerospace Engineering Group was founded in 2000. Since then, the Group has undergone a continuous process of investment and growth, leading it to become one of the most valuable partners for Tier-1 MRO providers.

The Aerospace Engineering Group performs maintenance on components under EASA part 145, FAR part 145 and TCCA for civil aircraft and under PERAM 145 and AQAP/PECAL 2110 for military aircraft.

Our company has extensive experience in repairing and overhauling a wide variety of civil and military aircraft components, such as power generator equipment, hydraulic systems, avionics, landing gear, fuel systems, etc.



### ASON ELECTRÓNICA AERONÁUTICA, S.A.

Ctra. de Loeches, 92 28850 Torrejón de Ardoz (Madrid) Spain Phone: +34 913295717 www.asonea.com

Established in 1995, ASON Electrónica
Aeronáutica S.A. specialises in the
development, modernisation and production
of test benches, equipment and systems
for aircraft engines, in both the shop and
on the flight line, in addition to the testing
of components and accessories of the
aeronautical and defence industries.
ASON specialises in providing custom solutions
for our customers' needs.
In 2014, ASON became a part of the COBRA

Group.

The COBRA Group has more than 28,000 employees in over 45 countries.



### **DEIMOS SPACE, S.L.U.**

Ronda de Poniente 19, portal 2, 2° 28760 Tres Cantos (Madrid) Spain Phone: +34 918063450 www.elecnor-deimos.com

Elecnor Deimos is a company 100% owned by the Spanish industrial group, Elecnor, and it is engaged in engineering and project development in the aerospace, transport, defence, energy and ICT sectors. Elecnor Deimos has its own subsidiaries in Portugal, the United Kingdom, Romania and Italy. In the field of space, it develops complete Earth Observation satellites, the satellite ground segment and space objects surveillance and tracking systems, as well as applications and receivers of Global Navigation Satellite Systems (GNSS). Other activities for defence include unmanned aircraft, coastal surveillance and maritime traffic monitoring systems and air navigation aid and communications systems.



# **GESTAIR MAINTENANCE, S.L.U.**

Antigua Zona Industrial de Iberia, edif. 107, planta 1ª

28042 Madrid (Spain) Phone: +34 913123140 www.gestair.com

Gestair Maintenance, Maintenance Corjet before, is the only Spanish operator that offers customers comprehensive services in business aviation with worldwide coverage, which covers the maintenance base, online as well as maintenance of components.

Certifications ISO 9001 PECAL / AQAP 2110 UNE EN 9100 UNE EN 9110 EASA UNE EN 9120

Certifications UNE EN 9100 ISO 9001 Certifications ISO 14001 PECAL / AQAP 2110 ISO 9001 ISO 27001 ISO 20000

Certifications PECAL / AQAP 2110 EASA ISO 9001







# metraltec

### **INGENIERÍA SEMASA, S.A.**

C/ Ámsterdam, 81 28813 Torres de la Alameda (Madrid) Spain Phone: +34 918868500 www.semasamro.com

A Spanish company specialising in the maintenance of civil and military aircraft components, non-destructive testing and equipment calibration. Our company develops its business activity in three main areas:

- Components maintenance: high-quality and prompt service are the main characteristics we offer on a daily basis in our repair services for wheels, brakes, landing gear, fire extinguishers, oxygen regulators, masks and cylinders, in addition to hydrostatic testing and recharging of pressure vessels, plus work on emergency slides, life rafts, life vests, helicopter floats and batteries.
- Non-destructive testing: we are wellestablished experts in NDT techniques.
- Calibration laboratory: our precision calibration laboratory is certified by ENAC 123/LC10.090.

### INMAPA AERONAÚTICA, S.L.U.

Ctra. Palencia Magaz, km 2,5 34190 Villamuriel de Cerrato (Palencia) Spain Phone: +34 979165968 www.inmapa.com

Inmapa Aeronáutica originated in 2002 as a clear commitment to the aeronautics sector by the Inmapa Group.

The division specialises in the manufacturing of metallic components and small assemblies for the aeronautical sector.

Machining, welding, painting and chemical treatment of aircraft parts.

### LATESYS IBERIA, S.L.

C/ Hispano Aviación nº 11, planta 8ª, 6 a 9, Parque Tecnológico Aeropolis 41300 La Rinconada (Sevilla) Spain Phone: +34 954475570 http://www.latesys.com

LATESYS, a subsidiary of the French industrial group, ADF, is a leading European company in its market. With offices in Toulouse, Nantes, Bordeaux, Paris, Vitrolles, Spain, England, Germany, Canada and Tunisia, LATESYS places its technical and operational expertise at the disposal of industrial companies of the aeronautics, space, automotive, defence, logistics, railway and medical sectors, among others.

Using an industrial approach organised around its core skills, LATESYS provides a comprehensive range of services to meet its customers' requirements, with the commitment to service quality and customer satisfaction. LATESYS, the engineering and services portal of the ADF group, supports its customers through the entire life cycle of developing their national and international projects, therefore providing the design of industrial products and the design, manufacturing, assembly and maintenance of mechanical sub-assemblies.

### METRALTEC, S.L.

C/ Concejo, 2 01013 Vitoria-Gasteiz (Álava) Spain Phone: +34 945277788 www.metraltec.com

Metraltec, S.L. is a company that was founded in 1994 and is engaged in the aviation sector. From the beginning, its main activity was the manufacture of mechanical assemblies and the components thereof for the aeronautical sector. Today, Metraltec has approximately 45 people on staff and applies various manufacturing processes (machining, heat treatment, sheet forming, surface treatments, painting and the assembly of components).

The main objective of Metraltec is to become a well-established company that is capable of manufacturing and assembling aerospace assemblies according to the highest standards of safety, quality, reliability and customer response.

Certifications ISO 9001 PECAL / AQAP 2110 UNE EN 9100

Certifications ISO 9001 ISO 17025 EASA PECAL / AQAP 2110

Certifications UNE EN 9100 ISO 9001

Certifications
UNE EN 9100



### **TEMAI INGENIEROS, S.L.**

C/ Rivas, 10

28820 Coslada (Madrid) Spain Phone: +34 916722731 www.temai-ingenieros.com

Design, development and manufacturing of and technical assistance for systems and applications in the areas of electronics, testing equipment and data acquisition for the aerospace sector, including both hardware and software.

Manufacturing of electro-mechanical equipment for the aerospace sector.

Marketing of electronic equipment and software and of instrumentation for the aerospace sector.



### TURBAIR, S.A.

28850 Torrejón de Ardoz (Madrid) Spain Phone: +34 916750818 www.turbair.com

The purpose of TURBAIR, S.A. is the manufacturing of aeronautical devices and test benches, as well as the maintenance, overhaul, repair, inspection and modification of aeronautical components and turbine engines for the defence sector.

We have the engineering development capacity to obtain the necessary guidelines for all types of designs related to the aeronautical industry. Since 1988, TURBAIR has serviced Allison 250 engines; UH-1H, AB212 and Chinook helicopter components; and Fokker 27, Beechcraft Bonanza, CASA C-101, Pillan, F-5, P-3 Orion, C-130, CL-215 and CL-415 aircraft components. Since 2010, it has been servicing portable and engine fire extinguishers, as well as oxygen cylinders and regulators.

TURBAIR has also been performing overhauls on the ACM and gearboxes of the F-5 aircraft.



### **WAKE ENGINEERING, S.L.**

Avda. Rita Levi Montalcini, 2 28906 Madrid (Spain) Phone: +34 912999962 www.wake-eng.com

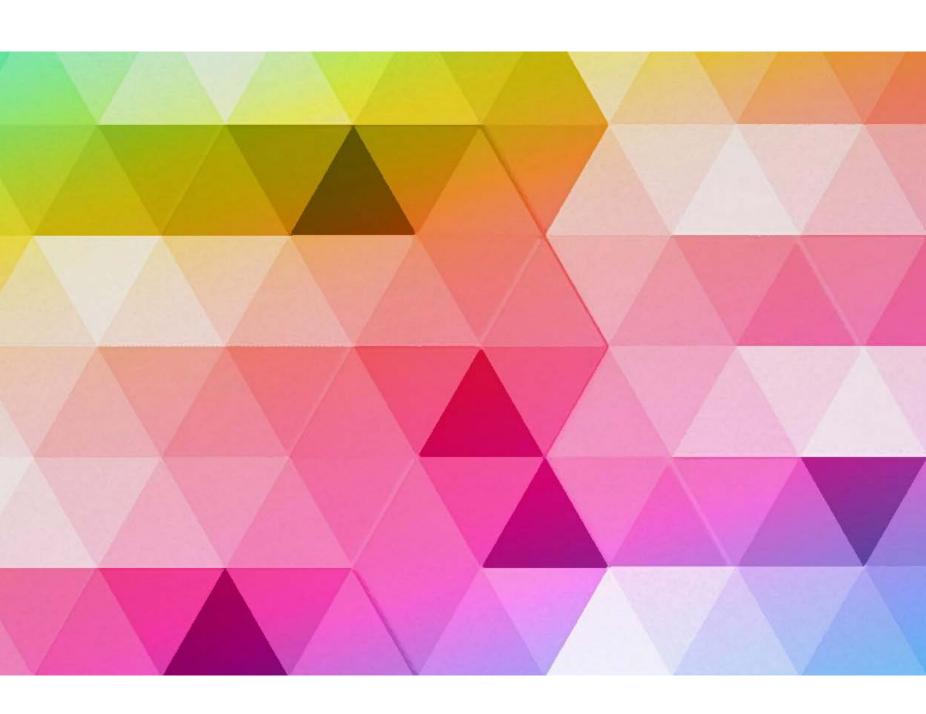
Surveillance solutions based on the FULMAR Delta tactical UAS, a proprietary product of the CPS Group, designed and manufactured by Wake Engineering.

- Intelligence, surveillance and reconnaissance missions.
- Target acquisition missions.
- Border surveillance.
- Emergencies and natural disasters.
- Security of critical infrastructures.
- Creation of a communications network for areas without radio coverage.

Certifications ISO 9001 UNE EN 9100 Certifications ISO 9001 EASA PECAL / AQAP 2110

Certifications UNE EN 9100 ISO 9001







# Armament & Ammunition Sector



Avd. Punto Es, 10 28805 Alcalá de Henares (Madrid) Spain Phone: +34 911898293 http://www.eme-es.com

### **ESCRIBANO MECHANICAL & ENGINEERING, S.L.**

### Lanc

Vehicles; systems & equipment

### Aerospace

RPAS; aerial systems & equipment

### Armament and ammunition

Armament; missiles; ancillary industry & spare

Electronics, communications & ICT C4ISR; surveillance & security; simulation

Escribano is characterised by a high degree of specialisation on the products we manufacture and by following a policy for the continuous, modern and innovative acquisition of equipment using the latest technologies.

In the production, machining and engineering departments, we rely on highly qualified, specialised and experienced staff who are dedicated to creating the product that the customer is looking for.

Escribano stands out from its competitors by continuously investing in new and cutting-edge equipment, including investments in resources and training, thereby placing us in the privileged position of being a key supplier. These kinds of initiatives allow Escribano to gain more knowledge about a product and its technical requirements and thereby ensure the satisfaction of its customers.

Certifications PECAL / AQAP 2110 ISO 9001 UNE EN 9100 PRI-NAPCAD ISO 14001

### Remote Weapon Station "GUARDIAN"

The GUARDIAN system is a lightweight and compact Remote Weapon Station (RWS) for 12.7-mm, 7.62-mm and 5.56-mm calibres. The system is stabilised and can be operated during daytime and night-time. Its operational functions include surveillance, target identification and tracking. The ballistic calculations are made by the central computer system, thereby allowing improved shooting accuracy. The GUARDIAN system provides defence capability in the short and mid ranges, with high firing accuracy, and it is a cost-effective solution for defence against asymmetric threats.



### Remote Weapon Station "SENTINEL"

The SENTINEL 20 remote control station is a stabilised naval system that can be used both day and night. It is designed to be operated from the CIC or from the bridge, thereby protecting the shooter from both enemy fire and adverse weather conditions. It provides greater firing accuracy, given that the ballistic calculations are transparent and fully available to the operator. The system incorporates the Oerlikon 204 GK 20/85 and 5 TG 20/120 cannons currently in use in the Spanish Navy, although it is designed to integrate 20-mm cannons from other manufacturers.





### Advanced Observation Multirole System, "AOMRS"

The AOMRS system is a dual axis, gyro-stabilised platform (pitch and yaw) especially designed for use in different applications during the day or night or in adverse weather. The AOMRS system can be easily installed in different types of vehicles, such as land vehicles, high-speed launches, UAVs, etc. The system is composed of two subsystems (LRUs: Line Replacement Units), the Interface Control Unit (ICU) and the Stabilised Electro-Optical Payload (SEOP). The performance of the electro-optical sensor block allows obtaining images in the mediumwave infrared (MWIR) spectrum.



# Software Design and Development

The aim of our simulators is to give greater importance to training and instruction so that operators of our systems have a high-fidelity experience that provides realistic training, subsequently providing evaluations of the performance and effectiveness of both the personnel and the units.

The simulators incorporated to our systems allow tactical and operational training by using the real system and performing tasks such as observation, reconnaissance, target acquisition, tracking, targeting and firing, as well as tactical coordination and management of command and control.



# Mechanical Components and Lenses

Our products include the manufacturing of precision mechanical components, lenses and small assemblies. We offer vast experience in manufacturing, production processes, small assemblies and CNC programming using CAD/CAM systems. We work with leading companies in both Spain and internationally, for whom we produce and deliver machined parts made of various materials such as aluminium and other special alloys. Escribano delivers parts that meet the customers' requirements, specifications and certifications. We hold the certifications needed to produce in the aeronautical. aerospace and defence sectors.





# 144

Camino Fuente de la Mora, 1 28050 Madrid (Spain) Phone: +34 917490000

www.everis.com/spain/es/industries/aerospace-defense

### **EVERIS AEROESPACIAL Y DEFENSA, S.L.U.**

### Land

Systems & equipment; simulation; maintenance & life cycle support; auxiliary industry & spares

### Nava

Systems & equipment

### Aerospace

RPAS; aerial systems & equipment; satellite services; satellite systems & equipment

Armament and ammunition Armament; missiles; CIED

### Electronics, communications & ICT

Radars; C4ISR; cyber defence; surveillance & security; systems & equipment; simulation; ICT

Consulting & engineering Consulting & engineering

Everis Aerospace, Defense and Security (everis ADS) offers differential solutions by integrating the innovative technologies developed by everis itself, those developed by the SMEs it invests in and those developed by the partners with which it has strategic alliances. The company combines the strength and history of the everis Group with the flexibility and the adaptive capabilities of its technological SMEs. This allows it to offer state-of-the-art products and services to the market in areas such as defence, aviation, security, simulation and space.

### **AUNAV.NEO Robot**

This is the only EOD/IED/CBRN robot with a variable geometry system. It can automatically, and in just a few seconds, increase or decrease the width of the robot. This variable geometry system, together with the self-stabilisation system, allows the robot to adapt to any operating scenario, regardless of whether it is in the narrow aisles of aircraft or buses. in underground tunnels or while fording, always keeping the robot platform in a horizontal position, including on stairs, on slopes or on uneven, debris-filled terrain. It allows auto-detection and the real-time, automatic configuration of any accessory, without the need for operator intervention.



Certifications ISO 9001 ISO 14001

### MIURA, Development of a Precision Guidance Kit for Ground-to-Ground Rockets

everis ADS has the capability to design and implement highly accurate and low-cost guidance kits. The MIURA R&D project is an example, based on the combination of INS and GNSS. MIURA allows transforming conventional ballistic rockets into highly accurate guided ammunition using a canard-based navigation, guidance and control system.



### **SCRAB Aerial Target Drones**

everis ADS markets the aerial target drones of its investee, Sistemas de Control Remoto (SCR). Building on its experience with the SCRAB-I, SCR designed and built the SCRAB-II, with the guarantee of top performance, a competitive price and simple operation and maintenance.

It features twin turbojet propulsion operated autonomously by on-board electronics. The SCRAB-II is so easy to operate that it is ideal for use in all types of locations, including on ships for exercises at sea.

The SCRAB-II is used for missions that require different types of missiles, including STANDARD missiles, HAWK missiles, ROLAND missiles and IRIS-T missiles.



### **Alakran Mortar System**

everis ADS markets the Alakran of its investee, Ventura Defense. The Alakran mortar system is a lightweight mortar carrier for 81and 120-mm mortars for highly mobile deployable units. It provides a new perspective on the use of 81-/120-mm mortars. which can be used by deployable units without limiting their mobility. Its design, developed to prevent the recoil of the shot from affecting the vehicle, solves many of the problems that limit the operation of current mortars: excess weight, the need to reinforce vehicles, large platforms, overheating, etc.



### **UAVs**

everis ADS markets a wide range of high-performance, reliable, safe and flexible fixed and rotary wing UAVS, manufactured by Sistemas de Control Remoto (SCR). They are manufactured using composite materials that meet the highest quality standards, while incorporating state-of-the-art electronic and mechanical systems that guarantee optimal operation throughout the entire useful life of the aircraft.

Rapid-deployment systems with simple operation and maintenance that integrate sensors and equipment for the execution of a variety of missions: intelligence, surveillance, reconnaissance, emergency and security.





Avda, del Partenón, 16 28042 Madrid (Spain) Phone: +34 917220235 https://www.expalsystems.com/

### **EXPAL SYSTEMS, S.A.**

Maintenance & life cycle support; ancillary industry & spare parts

### Aerospace

RPAS; aerial systems & equipment; maintenance & life cycle support

### Armament & ammunition

Armament; ammunition; missiles; demilitarisation; CIED; maintenance & life cycle support; ancillary industry & spare parts

Logistics, ancillary & services Consumer goods

EXPAL Systems, a global defence and security company, has a tradition of over 100 years supporting the Armed Forces of Europe and of allied countries worldwide. The company develops high-end technologies to cover the current and future requirements of armies in over 60 countries. Offering state-of-the-art systems and solutions, EXPAL seeks to provide maximum safety, precision and efficiency for every mission.

Thanks to EXPAL's industrial capabilities and know-how, the company provides Armed Forces with the most appropriate resources for performing their missions and defending their troops, whether in security or military operations, training or humanitarian missions.

### **Mortar Systems Solutions**

EXPAL offers a complete solution for mortar systems based on enhancing mobility, safety and efficiency. This solution includes mortar systems (60 mm, 81 mm, 120 mm), the complete family of ammunition and the 60/81-mm mortar system on the EIMOS 4x4 vehicle. EXPAL also offers fire support information systems for mortars and artillery guns (TECHFIRE), mini-UAVs for aerial reconnaissance (SHEPHERD-MIL) and simulators (eSIMOX), as well as maintenance and logistic services in a single contact point. EXPAL has developed its own family of extended range (ER) artillery ammunition using base bleed technology, thereby providing ranges of 20 km and 40 km using 105-mm and 155-mm ammunition.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 **OHSAS 18001** 



### **Air Armament**

For over 70 years, EXPAL has been offering a complete range of products to Air Forces throughout the world, as well as integration, maintenance and modernisation services.

The company manufactures and integrates the CAT-70 (70 mm, 2.75") family of air-to-surface rockets for both fixed wing and rotary wing platforms, including the most accurate and advanced guidance systems, in addition to the complete MK-80 series for use on the main NATO platforms. EXPAL's capabilities and its cooperation with other Tier-1 companies on major programmes are the basis for EXPAL's offer of maintenance and modernisation for weapons systems and platforms.



### **Naval Ammunition**

EXPAL designs, develops and manufactures ammunition fully compatible with the most important naval guns, such as 40-mm and 76-mm guns in all their variants, including the 5" / 127-mm gun mount. EXPAL's extensive portfolio includes practice ammunition with and without tracers, as well as combat-proven insensitive munition (IM) with natural or preformed fragmentation. EXPAL also offers a complete range of underwater ammunition, such as the GAB underwater grenade and the MILA limpet system. Safety and operational efficiency are key aspects during the design stage.



### **Energetic Materials**

EXPAL owns state-of-theart facilities to develop and manufacture energetic materials for the defence and civil sectors. The company has invested over €3 million during the last 7 years to implement new technologies and to improve the process and manufacturing lines.

Thanks to its industrial capabilities and know-how, EXPAL carries out services to extend the life of rocket motors and to update the capabilities of armies regarding rockets and missiles.

According to safety and environmental policies, EXPAL is a benchmark in the production of simple-base, double-base and triple-base powders, among other solutions.



### **Demilitarisation Services**

EXPAL is a leader in demilitarisation services thanks to its 40 years of experience, its capabilities and its processes based on recovering, recycling and re-using the 99% of removed materials.

Currently, EXPAL manages demilitarisation projects on all five continents, both at its own facilities in Europe and the USA or through ad hoc mobile facilities. Moreover, recovered explosives are re-used in the civil sector, thereby preserving non-renewable resources and reducing the ecological footprint.





C/ Monreal, 27 50002 Zaragoza (Spain) Phone: +34 976293423 www.instalaza.es

### INSTALAZA, S.A.

### Armament and ammunition

Armament; ammunition; missiles; demilitarisation; simulation; maintenance & life cycle support; ancillary industry & spare

Electronics, communications & ICT Surveillance & security; systems & equipment; simulation

Services, logistic & auxiliary Infrastructures; auxiliary industry and machinery; services; consumer goods; others Instalaza, S.A. is a Spanish company that was founded in 1943. Since then it has been designing, developing and manufacturing weapons systems, hand and rifle grenades, Fire Control Units, training systems and simulators using the latest technology.

In Instalaza's 75 years of history, it has been granted over 50 patents and has developed many products that have been exported and used by more than 40 armed forces around the world, with over 90% of our turnover coming from the export market.

Our products, from the old Model 65 grenade launcher to the current ones, the ALHAMBRA hand grenade or the C90 family and ALCOTAN-100 (M2) grenade launchers, all have something in common: they are the safest and most reliable on the market.

### **ALCOTAN-AT (M2) System**

The ALCOTAN-100 (M2) system is a 100-mm calibre weapon system for infantry, composed of a reusable fire control unit, called VOSEL (M2), with integrated night or thermal vision, which calculates the position and trajectory of the target, measures the propellant temperature, calculates the projectile trajectory and shows the gunner the future aiming point to maximise the hit probability. It has a range of different types of ammunition (anti-tank, dual-purpose, anti-bunker and multi-purpose), integrated in a disposable launching tube, fireable from confined spaces. It penetrates up to 750 mm behind ERA, and it has the best costefficiency in its category.



Armament & Ammunition Sector

> Certifications ISO 9001 PECAL / AQAP 2110

### C90-CR-RB (M3) System

C90 Family. 90-mm weapon system for infantry composed of various weapon versions (C90-CR (M3)), CS90 (for firing from confined spaces), C90 reusable system (composed of a reusable tube capable of firing all the ammunition of the C90 family) and ammunition (anti-tank, anti-bunker, dual purpose, smoke & enhanced blast).

A night vision device, called VN38-C, can be used, which does not require boresighting and can be attached and removed in the battlefield within seconds. The VN38-C includes interchangeable optics so that it can also be used for surveillance purposes with 3.3X magnification.



### **ALHAMBRA Hand Grenade**

The ALHAMBRA hand grenade is the first and only electromechanical hand grenade in the world. This state-of-the-art solution designed and produced by Instalaza does not require batteries, since it generates its own energy. This, together with its offset detonator, makes the ALHAMBRA the safest hand grenade in the market during transport, storage and use. The electronic fuse means that 100% of all fuses can be tested twice during the manufacturing process, thereby obtaining reliability of 99.9% (95% confidence interval as per Fisher-Snedecor). The ALHAMBRA grenade does not need maintenance and has a shelf life of over 10 years.



### **Rifle Grenades**

The FTV rifle grenade is universal for weapons with a standard 22 mm muzzle which allows direct and indirect shots with any 5.56-mm ammunition due to its bullet trap device.

Due to its shaped charge design with a treated steel body, it obtains the best fragmentation. This grenade is very effective against armoured vehicles and soft targets. Its dimensions have been minimised, thereby allowing infantry soldiers to transport multiple units without hindering their movements. The FTV can be fired from the shoulder or any other conventional position. The FTV-IN and FTV-IN 20 grenades are the training versions.



### **Training Systems**

Training is paramount for a successful mission with any weapon system. Instalaza has developed various training solutions for all its products, with the aim of realistic and costeffective training. These solutions cover both indoor use, with our SAARA simulator, and training in the field, with our subcalibre weapons and training ammunition.



# *ELEONARDO*

# 150

Pol. Ind. Masía del Conde C/En Proyecto, 4, Parc. M1-3 46393 Loriguilla (Valencia) Spain Phone: +34 961520602 www.leonardohispania.es

### **LEONARDO HISPANIA, S.A.U.**

Systems & equipment; maintenance & life cycle support

Systems & equipment

RPAS; auxiliary industry & spares

### Armament and ammunition

Armament; ammunition; maintenance & life cycle support

### Electronics, communications & ICT

Radars; electronic warfare; systems & equipment

Leonardo Hispania was established nearly 20 years ago with the aim of not only producing and integrating the turrets of the Centauro vehicle currently in service in the Spanish Army, but also providing Logistic Support during its Life Cycle. Today, the company pursues its purpose of supporting the National Armed Forces, while offering its experience in defence systems. From electronics to cyber security, including aerostructures, helicopters and avionics, Leonardo Hispania offers its customers the complete portfolio of products of the Leonardo Group with the objective of consolidating itself as the Group's centre of excellence in Spain, in addition to becoming a benchmark for the various Spanish institutions and for national industry.

### **HITFIST Manned Turret**

HITFIST® is a manned turret that incorporates the latest technologies in the fields of electronics, protection, signature and Human Machine Interface (HMI). The turret is made of ballistic aluminium alloy, with armoured panels installed to reach the required level of protection. The main weapon system consists of an automatic cannon (25-, 30- or 40-mm), electrically controlled for elevation, traversing and firing operations. The turret is fitted for a secondary armament composed of a 7.62-mm, coaxially mounted machine gun; a 7.62-mm, pintlemounted machine gun; and a set of smoke grenade launchers. The main armament can also include two anti-tank missile launchers.





### **HITFACT MK2 Turret**

The HITFACT® MkII is a modular and lightweight turret designed to integrate a 105/52-mm rifled canon, as well as 120/45-mm smoothbore, low-recoil guns. The HITFACT® MkII represents a new stage in the evolution of the combat-proven HITFACT® family: it is the first large calibre turret in the world equipped with a high pressure MBT gun installed on an 8×8 wheeled vehicle. It has been modernised with the latest technologies available, in accordance with the future requirements of modern armies all over the world, while taking advantage of the lessons learned in various operating theatres by different users.



### **HITROLE 12.7 L Turrets**

HITROLE® Light is a state-ofthe-art, lightweight Remote
Weapon Station (RWS) that can
perform multi-role tasks such as
surveillance, patrolling in urban
environments, border security,
counter-sniper fighting and
asymmetric missions.
Due to its lightweight and
innovative design, the HITROLE®
Light turret can be quickly installed
on the roof of all types of vehicles.
HITROLE® Light requires no
penetration of the hull.



### **VULCANO Ammunition**

VULCANO® is a family of unquided (BER) and guided (GLR) ammunition for the 76-mm and 127-mm naval guns and 155-mm land artillery systems. The effective range of the gun is improved beyond the industry standard with the extra precision provided by VULCANO Technology: sub-calibre, GPS-IMU guidance and IR or SAL terminal sensor, as well as terminal lethality improvements. Together with the DART and the 4AP fuse, Leonardo has developed the family of guided and unguided VULCANO shells, thereby offering the ability to engage surface targets at long ranges using only guns, thus saving cruise missiles for other targets beyond the gun's reach.



# Nammo

# 152

Plaza Rabi Sem Tob, s/n 34004 Palencia (Spain) Phone: +34 979165570 www.nammo.com

### **NAMMO PALENCIA, S.L.**

Armament and ammunition Ammunition

Services, logistic & auxiliary Consumer goods

The Company's business activity consists in the manufacture, production and marketing of all types of ammunition for armaments and ancillary activities, as well as the storage and transport of these products.

### 12.7 X 99-mm ammunition

A large family of standard NATO ammunition for machine guns and precision rifles (snipers).



Certifications PECAL / AQAP 2110 ISO 9001

### 30 X 173-mm ammunition

A large family of standard NATO ammunition with high quality and steel cartridge cases suitable for use in the MK44 Bushmaster II and Mauser MK30 weapons.



### 40 X 53-mm ammunition

Standard NATO grenades for anti-personnel/anti-material use on automatic grenade launchers such us the MK19, MK47, LAG 40 and H&K.



### 35 x 228-mm ammunition

High performance ammunition for Oerlikon 35/90 KDB guns —type GDF-001, GDF-005 and GDF-007—and for Bushmaster III.



# 5.56 X 45-mm and 7.62 X 51-mm ammunition

Standard NATO ammunition suitable for semi-automatic rifles and machine guns.







Gta. Pérez Cidón, 4 28027 Madrid (Spain) Phone: +34 913810600

### **NIGHTVISION LASERS SPAIN, S.L.**

Armament & ammunition
Armament; maintenance & life cycle
support; ancillary industry & spare parts

Electronics, communications & ICT Surveillance & security; systems & equipment

Logistics, ancillary & services Uniforms & equipment; others Nightvision Lasers Spain (NVLS) is a privately owned Spanish company engaged in the design, production and sales of high-end, man-portable, optronic systems.

As the leader in the Spanish market and the main night-time vision exporter, it produces monocular and binocular night-time vision systems, night-time vision observation and fire sights, thermal goggles and sights and compact laser systems.

### Product range:

- 18-mm, multi-function, ruggedised and ultralight night-time vision monoculars.
- New ultra-compact, 16-mm "MINIMUS" monocular (< 170 grams).
- Ultralight ANVIS pilot goggles.
- Thermal sights.
- Multi-sensor, day/night, observation binoculars.
- Multi-function, compact laser rangefinder.
- High-power IR laser designators/ illuminators.

# AM-NVM: Night-time Vision Monocular

AM-NVM: Multi-function, ruggedised and ultra-lightweight night-time vision monocular with an 18-mm lens.

Constructed out of a lightweight metal alloy. Weight < 300 grams. New generation optics with increased bandwidth.

### Multi-functional:

- Helmet-mounted in monocular or binocular mode for driving.
- Head-mounted in monocular or binocular mode for driving.
- Weapon-mounted in tandem with red dot sights.
- Submersible to 30 metres in operating mode.



Certifications ISO 9001

# MINIMUS Night-time Vision Monocular

MINIMUS: Multi-function, ruggedised and ultra-compact night-time vision monocular with a 16-mm lens.

Constructed out of an ultralightweight metal alloy. Weight < 170 grams.

New generation optics with increased bandwidth.

### Multi-functional:

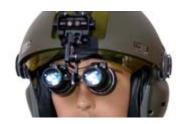
- Helmet-mounted in monocular or binocular mode for driving.
- Head-mounted in monocular or binocular mode for driving.
- Weapon-mounted in tandem with red dot sights.
- Submersible to 30 metres in operating mode.



# Night-time Vision Goggles for Pilots of Helicopters and Transport Aircraft

ANVIS ultra-light goggles for helicopter or jet aircraft pilots. Constructed out of an ultralightweight metal alloy. Weight < 500 grams.

New generation optics with increased bandwidth.
Customised cut-off filters for compatible cockpits.
Increased field of vision to 43°.



### **Thermal Cameras**

Uncooled thermal fire sights; constructed out of an ultralightweight metal alloy; short, medium- and long-range models available; version for HMG available.



# Multi-function, Compact Laser Rangefinder

Multi-function, compact laser rangefinder.

Constructed out of an ultralightweight metal alloy. Weight < 200 grams.

Mounted on any firearm. Attachable to night-time vision monoculars or binoculars. Attachable to night-time sights, day sights and thermal sights.





C/ San José Artesano, 8 28108 Alcobendas (Madrid) Spain Phone: +34 916623236 www.paptecnos.net/

### PAP TECNOS INNOVACIÓN, S.A.U.

### land

Systems & equipment; maintenance & life cycle support

### Naval

**Underwater systems** 

### Aerospace

Aerial systems & equipment

### Armament and ammunition

Armament; ammunition; missiles; CIED; maintenance & life cycle support; ancillary industry & spare

### Electronics, communications & ICT

Electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; ICT

Consulting & Engineering Consulting & Engineering

PAP TECNOS is a Spanish company that manufactures and supplies a wide variety of equipment and latest-generation systems for use in the defence and security market. Our mission is not only to supply equipment and systems with the best price/ quality ratio but also ensure that our services are listed as examples by our customers.

In addition to the manufacturing, integration and final testing of its equipment, PAP TECNOS provides maintenance, repair and technical support services during the entire life cycle.

PAP TECNOS currently supplies the Spanish Ministry of Defence with equipment and systems that have high technological and strategic value, especially in the area of Remote Weapon Stations.

# Remote Control Weapon Stations (RCWS)

A family of advanced remote control weapon stations for land vehicles, these systems enable target acquisition with enhanced accuracy, while maximising crew protection from enemy fire. Focused on high performance and survivability, these RWS have been adapted to a wide variety of tracked and wheeled armoured vehicles. Six configurations are offered for installation on diverse weapons and sensors including 5.56/7.62/12.7/30-mm machine guns, the 40-mm AGL, ATGMs. observation pods and non-lethal weapons.



Certifications ISO 9001 PECAL / AQAP 2110

# Naval Family of Remote Control Stations

The naval family of remote weapon stations are lightweight, stabilised and remote-controlled weapon systems for a full range of weapons, including:

- Small- or medium-calibre pistols of up to 30 mm.
- Machine guns.
- Surface-to-air missiles.
- Chaff rockets and decoys.

### Main features:

- Combat-proven.
- Highly accurate in day and night operations.
- Lightweight.
- No deck penetration is required.
- Simple operation with high reliability.
- Cost effective.
- Modular design.



# **Litening Airborne Day/Night Navigation & Targeting POD**

Litening Day/Night Navigation & Targeting Pod. This pod offers precision strike capability for all combat aircraft.

- Reduced pilot workload during target acquisition and tracking.
- High precision and reliability and low life cycle cost.
- Supported by most aircraft.
- Detection, recognition, identification and laser designation of air-to-surface and sea targets.
- Laser spot detection and tracking.



### Reccelite Day/Night Electro-Optical Reconnaissance POD

Reccelite Day/Night Electro-Optical Reconnaissance Pod is available for missions 24 hours a day. It provides real-time data and images through data link communications.

- Stabilised head.
- IR and visual channels simultaneously captured.
- Image collection in all directions.
- Real-time data link communication to ground station.
- It shares the ILS infrastructure of the Litening system.



### **IED Detector**

The system allows the EOD team to quickly detect IEDs with pinpoint accuracy. This is achieved without requiring direct line-of-sight to the target and without exposing the team to life-threatening risks.





C/ Buril, 65 28400 Collado Villalba (Madrid) Spain Phone: +34 917105489 www.venturadefense.com

### **VENTURA DEFENSE, S.L.**

### Land

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Aerospace

RPAS; aerial systems & equipment

### Armament and ammunition

Armament; ammunition; missiles; maintenance & life cycle support; auxiliary industry & spares

### Electronics, communications & ICT

Radars; C4ISR; surveillance & security; systems & equipment; simulation; ICT

Services, logistic & auxiliary Infrastructures; auxiliary industry and machinery; services

Consulting & engineering Consulting & engineering

Ventura Defense is a Spanish company specialising in the development of innovative systems for the defence and security sectors. Ventura Defense's added value lies in the combination of armament engineers and the latest in computer and telecommunications technology. Ventura Defense designs and integrates complex electronic, electromechanical and optronic systems for military and civilian applications.

Ventura Defense was founded in 2002 and currently forms a part of the Everis group, integrated in the Aerospace, Defence and Security division. Its portfolio includes relevant solutions such as the Alakran, an 81/120-mm light mortar carrier for high-mobility deployable units.

# Alakran 120/81-mm Mortar Carrier

Alakran is the world lightest 120-mm/81-mm mortar carrier system with automatic aiming. The mortar, vehicle and Fire Control System (FCS) are irrelevant for the Alakran. Our military design keeps it simple, robust and easy to maintain, while remaining fast and accurate.



Certifications ISO 14001 ISO 9001

# 120-, 81- and 60-mm Mortar Grenades

Ventura Defense manufactures standard 120-mm, 81-mm and 60-mm smoothbore NATO ammunition. The unbeatable features of our ammunition are obtained by using the Ventura Defense mortars, given that both the weapon and the ammunition have been designed as a system.



# Aiming System for the 155-mm 109 HOWITZER (VALI)

Vali is Ventura Defense's aiming and fire control system, designed for indirect firing units, including artillery and mortar systems.

Vali integrates a high-accuracy GPS system for positioning and direction, an Inertial Navigation System (INS), an aiming display screen to facilitate and guide the operation of manual aiming, a ballistic calculator and a computer system with integrated GIS (Geographical Information System).



# **Battle Management System** (BMS)

1Commander is Ventura Defense's Battle Management System for Command and Control units and situational awareness in the battlefield. It can operate at all levels of the tactical environment, from headquarters to advance command positions (C2 vehicles, mobile headquarters, etc.), thereby allowing commanders to make timely decisions and creating a common picture of the operational situation. 1Commander is built based on a high-performance, open architecture that allows integrating other solutions of Ventura Defense (Alakran, FO, etc.) and any other platform/product/solution of other customers or third parties.



# Forward Observer System with Laser Range Finder

The HERMES Forward Observer System consists of a compact, lightweight system that offers the forward observer a graphic communication platform to exchange information with the Battle Management System (BMS), which allows sending information to the Command Centre (target position, impact point, etc.). It allows identifying a new target and locating the target on a map using the laser ranger finder, marking impact points with the laser range finder and sharing this information with the Command Centre, thereby instantly providing aiming correction information, receiving orders from the command centre, etc.







### **ADAPTIVE SYSTEMS, S.A.**

C/ Hermosilla , 14, 4° B 28001 Madrid (Spain) Phone: +34 913889834 www.adaptive.es

Adaptive Systems, S.A. is a company specialising in simulation systems for missile launchers.

With experience since 2002 in the construction of missile simulators, Adaptive Systems develops all kinds of missile simulators in a number of configurations: surface-surface, surface-air, air-air and air-surface, all based on COTS components.

Adaptive Systems has the know-how, tools, models and technology to build simulators in a short period of time, which it develops in Spain according to customer requirements and with permanent updating of those requirements upon customer request.

### **ECIA XEMEIN, S.A.L.**

Avda. Xemein, 12 48270 Markina-Xemein (Vizcaya) Spain Phone: +34 946167616 www.eciaxemein.com

The firm manufactures metal parts of armaments. The company was founded in 1995 in Markina (Vizcaya) by a group of twenty workers coming from different departments of the old mortar and grenade factory, Esperanza y Cía., together with others who helped drive the initiative and joined as non-worker shareholders. It began operations at the facilities of that old factory with a clear vocation to extend the workers' knowledge of forging and machining. The company's machinery and installations offer a wide range of possibilities for producing metal parts out of steel, brass and aluminium, as well as products that require some or all of the processes of forging, machining, surface treatments, heat treatments and painting.



# FÁBRICA DE MUNICIONES DE GRANADA, S.L.

C/ Ctra. Murcia, s/n 18182 Granada (Spain) Phone: +34 958200300 www.fmgranada.com

Fábrica de Municiones de Granada, with its headquarters in Granada (Spain), manufactures a wide range of high-performance ammunition that is fully compliant with NATO quality standards.

Tank and artillery rounds; high-performance, single-base propellants for medium and large calibre ammunition; and equipment for explosive ordnance disposal for Army Engineers and other Security and Law Enforcement bodies are its main lines of business. In addition, the company develops, produces and integrates key high-technology components for missiles.

Its solid background in the defence industry and its current capabilities have positioned Fábrica de Municiones de Granada as a benchmark in large calibre ammunition, propellants and missile components, with which it consistently satisfies the demands of armed forces and large companies in the sector throughout the world.



### **FALKEN, S.A.U**

C/ Diamante, 7 28021 Madrid (Spain) Phone: +34 917981418

Falken is a Company specialising in non-lethal pyrotechnic products and high-energy products for defence and law enforcement uses. The ranges of Falken's products include training products (smoke), signals (coloured smoke), concealment (protection of vehicles or areas) and anti-riot (tear gas). As a result of its partnership with the Lacroix Group, FALKEN can also provide pyrotechnic countermeasure systems and products from Lacroix for any type of military platform (planes, helicopters, ships, etc.).

Certifications ISO 9001 ISO 14001

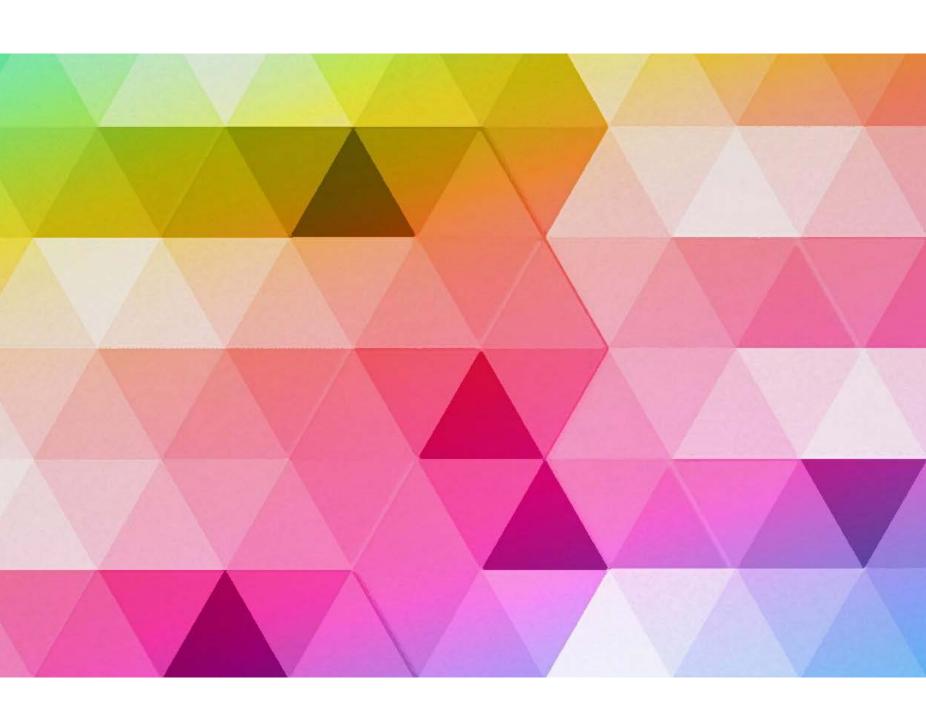
Certifications ISO 9001 Certifications PECAL / AQAP 2110 ISO 9001

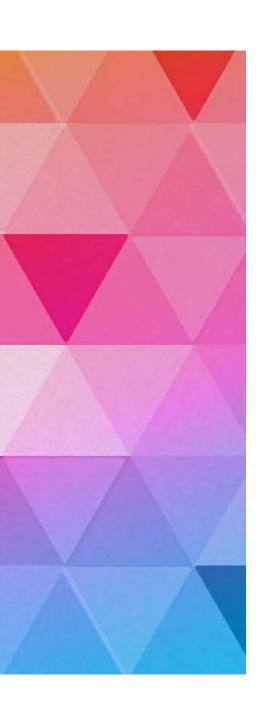


### MBDA ESPAÑA, S.L.

Plaza Pablo Ruiz Picasso, 1 28020 Madrid (Spain) Phone: +34 917693805 www.mbda-systems.com

MBDA, a global leader in missile systems, is a multinational group and the first truly integrated European defence company. MBDA designs and produces missile systems to meet the complete range of current and future operational requirements for the Armed Forces, for which it currently has 45 products in service and another 15 under development. MBDA has demonstrated its ability to bring together European technologies on the state of the art, and as a result it has been chosen to lead a number of strategic multinational programmes, including the 6-nation Meteor programme and the family of air defence systems based on the ASTER missile. Other systems of recognised prestige include the EXOCET, TAURUS and MISTRAL missiles and the latest CAMM missiles, the base of the EMADS air defence system and the Sea CEPTOR maritime version.





# Electronics, Communications & ICT Sector



C/ El Castro, 22 N 39011 Santander (Cantabria) Spain Phone: +34 942764400 www.acorde.com

### **ACORDE TECHNOLOGIES, S.A.**

Aerospace

Satellite systems & equipment

Electronics, communications & ICT Electronic warfare; systems & equipment

Acorde Technologies S.A., founded in 1999 and certified according to both ISO 9001 and NATO AQAP-2110, designs, develops and manufactures, in Spain, in-house high-performance RF front-ends for satellite communications systems (from S band up to the Q/V bands, and a global benchmark in the X and Ka bands), electronic warfare and data links. The company provides robust, reliable and field-proven solutions for customers worldwide in the military, space, telecom and broadcasting markets.

Acorde manufactures compact and lightweight BUCs, SSPAs, LNBs, LNAs, converters and TLTs, in stand-alone or redundancy configurations, with versatile proposals such as dual and quad sub-band integrations, in both standard and built-to-spec products.

Equipment is also certified, upon customer request, according to the MIL-STD-810G/461E standards.

Certifications ISO 9001 PECAL / AQAP 2110

### **BUCs Ka Band (4 W - 100 W)**

The ACTX-Ka series consists of integrated RF BUCs, designed for Ka-band satellite communication systems.

All products are tested and calibrated between -20 °C and +60 °C (optionally: -40 °C to +60 °C), thereby assuring high gain stability over temperature. The ACTX-Ka also includes internal output power detection, a temperature alarm and power amplifier shutdown to protect the amplifier from permanent damage in high temperature conditions. Moreover, it can be configured with an AC or a DC power supply, in single band or dual band (switchable). It allows communications via serial port (RS232/RS48) with the following options: TCP / IP and SNMP.



# X-Band Transceivers (80 W - 200 W)

The ACMTR-X series is composed of RF BUCs and receivers integrated in the same compact housing, designed for X-band SATCOM systems.

All products are tested and calibrated between -20 °C and +60 °C (optionally: -40 °C to +60 °C), thereby assuring high gain stability over temperature. It also includes internal output power detection, a temperature alarm and power amplifier shutdown to protect the amplifier from permanent damage in high temperature conditions. The equipment has an integrated AC power supply, easy to change without tools. It allows communication via serial port (RS232/RS48) with the following options: TCP / IP and SNMP.



### **Ka-Band LNAS**

The ACLNA-Ka family guarantees high quality, performance, flexibility and reliability. A waveguide isolator is included to improve the input match combined with a reduced noise figure, even in the ultrawideband case, covering the whole reception band (17.7-22.2 GHz).

Its high linearity (option of P1dB of +20 dBm) and adaptable gain (optionally up to 40 dB) result in a highly reliable solution whose performance is tested over the entire temperature range (every unit).

Additionally, redundancy configurations (1+1 and 2+1) supported by a controller on a 19" rack are available for big stations that require the assurance of full availability.



### **Ka-Band LNBS**

The ACLNB-Ka family is designed for MILSATCOM systems. With the objective of maximising the G/T of the receiving system, a waveguide isolator is included, thereby providing an optimal input match. They offer outstanding performance in terms of NF, phase noise and gain variation. Their high reliability is tested in a climate chamber (every unit over the whole temperature range).

The family offers a wide variety of solutions, including single-band (1 GHz), dual-band (2 GHz), wideband (3.5 GHz) and ultrawideband (4.5 GHz) products in the 17.7-22.2 GHz range, with a single output and switchable oscillator or several simultaneous outputs (2 or 4).



### X-Ka Band Subrack Modules

A modular system in a rack structure that allows the combination of several high-performance modules within its three (1U) or six (2U) bays. Up and down converters in X and Ka bands, test loops translators and redundancy systems are part of the functionalities available for this modular solution. Complete connectivity and management, both locally (front panel) and remotely (through the comms ports).



# Electronics, Communications & ICT

# **Atos**

Ronda de Europa, 5 28760 Tres Cantos (Madrid) Spain Phone: +34 914569803 https://atos.net/en/industries/defense

### ATOS IT SOLUTIONS AND SERVICES IBERIA, S.L.

### Lanc

Systems & equipment; ancillary industry & spare parts

### Naval

Systems & equipment

### Aerospace

Aerial systems & equipment; satellite services; ground segment; satellite systems & equipment

### Electronics, communications & ICT

Radars; electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; maintenance & life cycle support; ICT

Logistics, ancillary & services Infrastructures; CBRN; health & medicine; others

Consulting & engineering Consulting & engineering

Atos IT is a company of the Atos SE Group, a global leader in digital transformation, with 120,000 employees in 73 countries and annual revenue of €13 billion. Number one in Europe in cloud services, cybersecurity and supercomputing, Atos provides orchestrated hybrid cloud services, big data, business applications and digital workplace solutions.

Atos is the worldwide information technology partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Syntel, Unify and Worldline.

It provides high-tech transactional services, consulting and technology services, systems integration and managed services in the following markets: manufacturing, retail and transport; public sector and health; financial services; telecommunications, media and technology; and energy and utilities.

Certifications ISO 14001 ISO 27001 ISO 9001 PECAL / AQAP 2110

# **Command and Control Centres**

Atos develops fixed and mobile C2 centres, thereby incorporating its own software solutions (Vigia, Centinela and Gemma), while integrating the necessary hardware, both our own (BULLION x86 infrastructure and HPC BULLX) or from third parties on projects such as the Army's PC BON, the Torrejón CAOC and the Frontex AT20 Transceiver.

Likewise, Atos develops combat information systems that provide a real advantage in the digitised battlefield by maximising information-sharing at a strategic, operational and tactical level, thereby optimising cooperation among all organisations and allies.



### **Communications Solutions**

Atos delivers turnkey projects making use of communications in any frequency band and technology (data networks, HF, VHF, UHF, GSM, satellite communications, end-to-end encrypted phones, etc.) to deliver solutions such as surface-air communications for Air Forces, the IT infrastructure for the Military Staff of Defence and NATO, Link-11 communications for Air Forces, satellite comms for the Civil Guard, etc.

Unify is the leading Atos brand for unified communications systems and real-time collaboration solutions. The UCC portfolio includes OpenScape and a Platform-as-a-Service (PaaS) with Circuit.



# Transportable and Deployable Solutions

Atos develops deployable and/ or embedded communications solutions and command and control solutions. Armoured vehicles for battalion command stations, mobile command centres for crisis management in the Military Emergencies Unit (UME, with units in Mallorca, Menorca and Simancas), Cuenca display stations of the NATO Network, both classified and unclassified. in addition to the design, development and commissioning of and logistics support for the Army's deployable field hospital. Our comprehensive end-to-end solutions include digital workplace services, having been considered as leaders in the 2018 Gartner Magic Quadrant.



# Critical Infrastructures Protection

Atos implements security, access control, CCTV surveillance, early alert and facial recognition solutions, including the installation of all related equipment, as well as management and control systems for all associated information, whose objective is to generate alerts and establish actuation protocols whenever a protected or monitored perimeter or zone is breached. Examples include SIAM and SIVE for the Civil Guard and NATO's Torreión CAOC. Atos is a leader in the 2018 Gartner Magic Quadrant for Data Centre

Magic Quadrant for Data Centre
Outsourcing and Hybrid Cloud
Managed Services.



# Intelligence and Cyber Defence Solutions

Atos develops solutions for intercepting and monitoring communications, for analysing and generating intelligence and for cybersecurity (management of identities and access, encrypted phones, third-party technology integration, SOC [Security Operations Centres], management of vulnerabilities and APT, data protection and leak prevention, HSMs, encrypted USB drives). COMINT, ELINT, Jamming, OPTINT Intelligence and information services.

Atos has a team of 5,000 security specialists and a worldwide network of Security Operation Centres (SOCs).





Avda. Rita Levi Montalcini, 3 28906 Getafe (Madrid) Spain Phone: +34 911840396 www.centum.com

### **CENTUM SOLUTIONS, S.L.U.**

### Lanc

Systems & equipment

### Naval

Systems & equipment; auxiliary industry & spares

### Aerospace

Aerial Systems & Equipment; Satellite Services; Satellite Systems & Equipment; Auxiliary Industry & Spares

### Electronics, communications & IC1

Electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; simulation; ICT

CENTUM is a Spanish company with an international presence (Brazil and Germany), and is a leader in innovation and is highly specialised in communications engineering, electronic warfare, control and signal intelligence. CENTUM offers products, services and solutions in the defence, aeronautics, space, security and telecommunications sectors.

# Communications and Signal Intelligence Systems

As a complement to the solutions and services it offers, CENTUM also provides a high degree of specialisation in communications systems, therefore developing, among others, datalinks with a high capacity or a low probability of being detected, which are therefore robust against threats. Mainly, these features are due to its extensive experience with these types of systems, which are adjusted to the needs of each customer.



Certifications ISO 27001 ISO 9001 UNE EN 9100

# On-board Software and Systems

CENTUM contributes key experience to every phase of the software engineering life cycle of complex, critical, on-board and highly interoperable systems.



### **NOFLYZRONE**

NOFLYZRONE© is a counterdrone system which neutralises an RPA attack in a protected area. It is effective against both single and multiple (swarm) attacks of most types of RPAs, whether radio-controlled or autonomously guided by GPS. Unlike the majority of available solutions, NOFLYZRONE© does not cause any collateral damage, given that the RPA is led to a predefined capture area by means of spoofing techniques.



### **NOJAMZONE**

NOJAMZONE is a GNSS interference detection and geolocation system that provides protection for a vulnerable GNSS installation.



### **LIFESEEKER**

Lifeseeker is an innovative airborne system capable of accurately locating mobile phones, even in areas without network coverage and under adverse weather conditions

Lifeseeker turns a mobile phone into an emergency beacon capable of leading rescue teams to its exact location.

Lifeseeker also acts as a relay and can provide a communications channel between the missing person and the rescue team.

Lifeseeker allows conducting search missions under low- or zero-visibility conditions, including night flights, thereby reducing the sweep time of a search area and optimising the operational costs.





Camino de Vera, s/n, edif. 8F, planta 2a 46022 Valencia (Spain) Phone: +34 963556150 www.dasphotonics.com

### DAS PHOTONICS, S.L.

Systems & equipment

Satellite services; satellite systems & equipment

Radars; electronic warfare; C4ISR; systems & equipment; maintenance & life cycle support

**CBRN** 

DAS Photonics offers complete electronic warfare systems, thus covering both Signal Intelligence (SIGINT) applications and Electronic Attack (EA) Solutions, among other products. These products, based on proprietary photonic technology of DAS Photonics, provide competitive advantages versus other systems on the market, exceeding all other systems in terms of bandwidth, size, weight and power consumption. Our portfolio of products also includes implementation of the CESMO standard for full interoperability and EWOS software for operational support.

### **EWOS: Electronic Warfare Operating Support Software**

Full range of integrated ES and EA solutions. Adaptability to fit any requirement for land, naval and airborne integration. Some of the key features include the following: the smallest size, weight and power consumption in the market; full spectrum awareness; extreme bandwidth coverage; the widest dynamic range for universal scenario deployment; **EW Operational Support Software** (EWOS) for mission planning and debriefing; CESMO implementation for cooperative deployment; a modular design to illuminate any upgrade requirement; and superior direction search accuracy.

Certifications PECAL / AQAP 2110 ISO 9001 **UNE EN 9100** 



### **R-ESM: ELINT**

Capture, locate and identify radar threat signals from the whole radio frequency spectrum up to 40 GHz, with 360° azimuth coverage, thereby offering 100% probability of intercept. The proprietary photonic sampling digital receiver allows extremely fast signal processing, huge instantaneous bandwidth and maximum detection and identification capabilities, even for low probability of intercept radars or 5th/6th generation radar threats. Correlative interferometry implementation provides 1° RMS direction finder accuracy in the whole band.



# R-ECM: Electronic Countermeasure System

The ECM techniques generator of DAS Photonics allows the FW suite to support an appropriate defensive response to all types of airborne radars, surface radars and missile seekers. The core of the system is a Photonic Radio Frequency Memory (PhRFM) based on several proprietary techniques, which provides an extremely high dynamic range, extreme low latency and instantaneous bandwidth, unmatched by other solutions. The photonic techniques provide the ability to faithfully reproduce signals with all the characteristics of the origin radar source.



### **C-ECM:** Follower Hopper

Prepared to cope with the latest frequency hopping communications thanks to its fast processing and extremely rapid hopping response. The powerful range of the jamming signal is aided by wideband longperiodic antennas that maximise the energy delivery towards the desired direction, which can be different for different bands. The receiver applies advanced algorithms to listen and analyse the signals of the environment in the short jammer idle times, so that the jamming remains on the correct track.



### **C-ESM: COMINT**

It is capable of instantaneously monitoring the electromagnetic spectrum from 20 to 6,000 MHz. It detects, locates, identifies, classifies, records and decodes any communication signal. A unique broadband DF processor. 100% probability of intercept and several tunable IF channels for demodulation. The proprietary, state-of-the-art broadband digital receiver allows fast processing of the input signal for bandwidth maximisation and excellent dynamic range performance. and therefore improvement of detection possibilities.





# FCC INDUSTRIAL E INFRAESTRUCTURAS ENERGÉTICAS, S.L.U.

Land

Simulation

Aerospace

Aerial systems & equipment; simulation

Armament and ammunition

Simulation; maintenance & life cycle support

Electronics, communications & ICT

Radars; simulation; ICT

Services, logistic & auxiliary Infrastructures; consumer goods

Consulting & engineering Consulting & engineering

FCC Industrial is a leading company in the industrial construction sector,

with over 30 years of experience.

C/ Federico Salmón, 13 28016 Madrid (Spain) Phone: +34 917573625 www.fccindustrial.com

It has merged nine companies to take advantages of their synergies and provide better customer service. These were top companies in the maintenance, electrical and energy sectors. It has the capacity to undertake EPC projects and build large installations worldwide.

Our Systems Division specialises in the engineering and implementation of ICT systems, therefore carrying out the design, engineering, development, maintenance and operation of comprehensive solutions that are adapted to our customers' needs, both nationally and internationally.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 PECAL / AQAP 2210 ISO 27001

# Air Missions Monitoring and Debriefing Systems

Based on Link-16 data, these systems monitor in-mission execution in 2D, thereby providing real-time situational awareness. Simultaneously, the mission and communications are recorded for subsequent review. During the debriefing, the flow of the mission is reproduced in 2D & 3D, and significant events can be reviewed, both those manually recorded during the monitoring and those automatically identified according to defined rules (e.g., entry into nofly zones, etc.). Success story: TLP.



### **Parachute Simulator**

The parachute simulator allows paratroopers to train on skydiving through an immersive experience in a 3D VR environment. Fach training post is equipped with a VR headset and a parachute with sensorised controls, bands and rings that capture the actions of the skydiver and consider the skydiver's characteristics, the type of parachute and the weather conditions at the time of the jump. The system includes an instructor WS to manage and supervise the exercise, allowing for the introduction of a variety of failure conditions to test and train on emergency procedures during the jump. It can simulate up to 10 paratroopers simultaneously.



### **Air Missions Planning System**

They allow the collaborative planning of missions, in 2D & 3D, for a wide variety of aircraft, therefore considering all mission aspects (tasking, tactical scenario, aircraft configuration, attack, CAP, refuelling, take-off & landing, COMMS, etc.) and providing optimum attack and threat-avoidance calculations. They also allow data up/downloading to/from the aircraft and provide support for mission briefing and debriefing. Success stories: Eurofighter, EF-18, C-130, P-3, AV-8B.



### **IT Engineering**

It is composed of various software tools that allow providing support for the planning and deployment of military operations. They improve the exchange and availability of data and the decision-making process in a collaborative and distributed way.

This suite of tools covers the analysis phases of intelligence data, operational planning, campaign assessment, ORBAT management and force generation.



### **Simulators**

The replicas of weapons systems controls for armoured vehicles use the USB-HID specification, and they can communicate with any PC application.

These control replicas are fully functional, they realistically replicate their behaviour, and they can control multiple inputs and outputs.

Fully operational replicas have been supplied to the Spanish Army for reproducing the weapons systems of the Centauro, Pizarro and RG-31 vehicles.





C/ Isaac Newton, 11 28760 Tres Cantos (Madrid) Spain Phone: +34 918072100 www.gmv.com

### **GMV AEROSPACE AND DEFENCE, S.A.U.**

RPAS; aerial systems & equipment; simulation; satellite services; ground segment

Simulation

Electronic warfare; C4ISR; cyber defence; surveillance & security; simulation; ICT

GMV is a privately owned technology business group with international presence. Founded in 1984, GMV offers its solutions, services and products in very diverse sectors: aeronautics, banking and finance, space, defence, health, security, transport, telecommunications and information technology for public administration and large corporations.

The leadership position reached by GMV in these sectors is based on an in-depth knowledge of customer needs, which allows us to deliver solutions specifically tailored to their individual requirements. GMV offers customers the best solution, which are fully adapted to their requirements and include all the necessary support to achieve optimum results at a suitable price.

### **Command and Control Systems**

eForce TALOS is a Fire Support Planning and Coordination System designed to satisfy the NEC requirements of land forces. eForce TALOS can be customised for different levels (company, battalion, brigade, etc.), thereby providing automation of all operations in the battlefield.

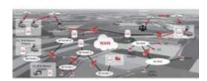


Certifications ISO 9001 PECAL / AQAP 2110 PECAL / AQAP 2210

### Intelligence Systems (ISTAR)

GMV's JISR suite of products is composed of:

- IRM&CM Tool: It provides support for the intelligence planning, collection and exploitation.
- SEISMO: It gathers data from multiple information sources in various formats and provides intelligence analysts with the tools required for elaborating useful intelligence products.
- CSD: It is a multi-user software that provides persistent storage and the dissemination of standardised intelligence products.



### **Access Control Systems**

GMV offers an integrated access control, presence and security system designed to control and oversee all accesses to various zones of multiple centres, in addition to allowing control over an employee's workday and managing the integral security of all facilities.



### **Avionics Systems**

The FCC is one of ATLANTE's most critical pieces of equipment, given its responsibility for navigation, guidance and control, with mission abort capability. The development of this system also involved the electronic development of cards, the thermal and structural design of the system and also the performance of extensive environmental and EMI tests, as well as the development of complex system- and hardware-testing systems.



# **Electronic Warfare Support Systems**

eForce SIGINT provides SIGINT analysts with the tools to receive and store COMINT and ELINT interceptions. It also allows correlating and merging intercepts with available information and obtaining intelligence products to keep the Electronic Order of Battle (EOB) updated.





Paseo García Faria, 17 08005 Barcelona (Spain) Phone: +34 934939300 www.gtd.es

### GTD SISTEMAS DE INFORMACIÓN, S.A.U.

### Lanc

Systems & equipment; auxiliary industry & spares

### Naval

Systems & equipment; auxiliary industry & spares

### **Aerospace**

RPAS; aerial systems & equipment; simulation; ground segment; satellite systems & equipment

### Electronics, communications & IC1

Electronic warfare; C4ISR; surveillance & security; systems & equipment; simulation; ICT

GTD is a tech firm founded in 1987. It specialises in critical systems for missions in aerospace, defence and security.

Its main asset is the talent and skill of its over 200 engineers, built on years of participating in cuttingedge programmes based on state-of-the-art technologies.

In security and defence, GTD offers a broad portfolio of products and solutions: critical SW development and integrated solutions for border control and surveillance, including the following highlights:

- Sniper detection.
- Wireless optical comms.
- Electro-optical systems for surveillance and targeting.
- DO-178/254 certification.
- On-board SW.
- UGVs for surveillance in hostile environments.
- SW for simulators & CBTs.
- Flight Test Instrumentation.
- C4I, COMINT and IMINT systems.

Certifications ISO 9001 PECAL / AQAP 2110 UNE EN 9100 CMMI PECAL / AQAP 2210

### **Electro-Optical Systems**

- Advanced ISTAR systems:
   Flexible SW, high-performance operator console, GPS/INU/DC, meteorological station, target tracking, IR camera, TV/LLTV, laser rangefinder, laser designator, stabilised pan and tilt head.
- Optical Comms: open space, LED NIR voice and data link. Ideal for scenarios in which RF cannot be used.
- Sniper detection systems: class 1 laser rangefinder able to identify optics up to 2 km, providing range or GPS coordinates.



### **Simulators**

Development of models or complete systems for:

- Full Flight Simulators (FFS).
- Computer-Based Trainers (CBT).
- Computer-Generated Forces (CGF).
- Mission Planning Systems (MPS).
- Full Simulated Cockpits.
- Standards (HLA/DIS).



### **Avionics**

Critical DO-178 compliant SW development for on-board avionics and mission systems.

DO-178 & DO-254 certification support.

References: IFF (A400M), MMC (A400M), MIDS (A400M, MRTT, FSTA, MP, EF-2000, NH-90, TIGER), AMS (A400M), CAMU (EF-2000), AC (EF-2000), DAC (EF-2000), WC (TIGER), Tail BOOM (MRTT), FITS, etc.



### **Flight Test Instrumentation**

GTD supports flight test campaigns by:

- Outfitting the required instrumentation on the aircraft.
- Developing SW tools for real-time data visualisation and post-flight analysis.
- Configuring, managing and operating telemetry and recording equipment (on-board and ground).
- Managing, archiving and distributing all test-related documentation.
- Providing flight testing engineers.



# **Command and Control Systems**

GTD implements control centres and related solutions:

- Systems and SW applications.
- Design and implementation of complete control centres.
- Updating and improvements for existing control centres.
- Addition of new functions: decision-making support.

And extensive experience gained in multiple scenarios:

- Space port and satellite ground segment.
- C4ISR security and defence.
- Research facilities (particle accelerators).





### **INDRA SISTEMAS, S.A.**

### Land

Systems & equipment; simulation; maintenance & life cycle support

### Naval

Systems & equipment; underwater systems; simulation; maintenance & life cycle support

### Aerospace

RPAS; aerial systems & equipment; simulation; satellite services; ground segment; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Armament and ammunition

Missiles; simulation; maintenance & life cycle support

### Electronics, communications & IC

Radars; electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; simulation; maintenance & life cycle support; ICT

Services, logistic & auxiliary Infrastructures; CBRN

Consulting & engineering Consulting & engineering

# 178

Avda. Bruselas, 35 28108 Alcobendas (Madrid) Spain Phone: +34 914805000 www.indra.es

Indra is a benchmark in the defence and security industry thanks to the availability of fully contrasted in-house technology. The company's understanding of its customers and its commitment to service, together with its international presence, are key factors of its competitiveness.

In all the projects it takes on, Indra applies capacities that cover the entire life cycle of its systems. Consulting on the analysis of operating requirements and the definition of solutions; design, development and manufacturing of custom products according to customer requirements; systems integration for real-time management of critical systems; outsourcing of weapons systems maintenance; training devices; maintenance support throughout the entire life cycle.

Certifications
PECAL / AQAP 2110
PECAL / AQAP 2210
ISO 14001
ISO 20000
ISO 27001
EMAS CERTIFICACIÓN EUROPEA
UNE EN 9100
UNE EN 9110
PECAL / AQAP 2310
ISO 9001

### **Unmanned Platforms**

Indra provides comprehensive solutions consisting in multiplatform and multi-sensor UAV systems focused on solving the different needs and strengthening security on intelligence, surveillance, target acquisition and reconnaissance (ISTAR) missions for tactical operations of short and medium range, whether day or night, which require rapid deployment and high mobility and portability. Moreover, Indra produces the Mantis Mini-UAV and the Pelícano unmanned helicopter.



### **Air Defence Radars**

Indra provides full integrated air defence systems that, based on the information coming from a radar network, allows, through command and control, planning and management of the actions of the means of the actuators network linked through a communications network.

It also aids in air traffic control at military bases by integrating 2D radars, approach control and communications management systems and radio navigation.



### **Simulators**

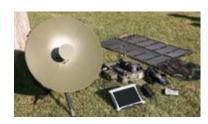
Indra provides simulators for training pilots, maintenance staff, various controllers, etc., thereby providing high fidelity when replicating platform behaviour. Indra has developed the following types of simulators:

- Combat aircraft, transport aircraft, UAS, commercial aircraft and helicopters.
- Land vehicles, tanks and railway systems.
- Submarines.
- Firing handguns and rifles. Indra also provides training services with its own simulators.



# **Satellite Communications Systems**

SATCOM solutions include all the civil and military communications networks and terminals that allow the use of communications satellites for different applications. Indra provides SATCOM solutions where there is no ground communications infrastructure. Indra provides terminals in X-band, which is the frequency band reserved for military use, and in the C- and Ku-bands, which are the civil frequency bands, in addition to the Ka-band in recent years.



# **Electronic Warfare and Countermeasures Systems**

Indra has electronic defence solutions for making effective use of the electromagnetic spectrum to gain superiority over the enemy in the area of operation (land, sea or air), through three actions: interception, analysis, identification, tracking and location of emitter stations; the use of directed energy techniques to prevent use of spectrum by opposing forces; protecting emissions against potential electronic attacks by adversaries.



# INSTER

# 180

Avda. Rita Levi Montalcini, 2 28906 Getafe (Madrid) Spain Phone: +34 913802022 www.inster.es

### INSTER TECNOLOGÍA Y COMUNICACIONES, S.A.

### Lanc

Systems & equipment; auxiliary industry & spares

### Naval

Systems & equipment

### Aerospace

RPAS; aerial systems & equipment; satellite services; ground segment; satellite systems & equipment; maintenance & life cycle support

### Electronics, communications & ICT

Electronic warfare; C4ISR; surveillance & security; systems & equipment; ICT

# Consulting & engineering Consulting & engineering

Inster is a technology and engineering company that designs, develops and manufactures innovative products and solutions for the defence, security and telecommunications sectors.

It is part of the Spanish group, CPS, with a prominent presence in the smart transport, rail and telecommunications markets.

Inster's portfolio includes wireless broadband communications products and solutions, notably including satellite communications on the move. In conjunction with this, it has unmanned aerial systems (UAS) and software platforms for mission information and situational awareness.

Likewise, INSTER offers engineering and consulting services, thereby adding value to its solutions, customisation to customer needs and support during the entire life cycle.

### **SATCOM Solutions**

- A broad family of satellite terminals for on-the-move applications (SOTM), intended for the military and civil fields, in vehicles, railways, ships and aircraft.
- Configurations adapted to lowprofile, low-footprint or small-size requirements, in single or dual band, while optimising efficiency.
- Ultralight portable satellite terminals for special operations forces.
- Satellite anchor stations for X, Ku and Ka bands.



Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110

### **Vehicle Integration**

Comprehensive turnkey solutions for the integration of systems on vehicle platforms.

- Complete design of the solution, which includes modelling, mechanics and electronics.
- Study of ergonomics, weight distribution, radio compatibility and power systems.
- Calculation and simulation based on finite elements.
- Integration of proprietary and third-party technology.
- Prototyping and short series.
- Industrialisation.
- Configuration and commissioning.



### **Mobile Surveillance**

Surveillance solutions based on the FULMAR Delta tactical UAS, a proprietary product of the CPS Group, designed and manufactured by Wake Engineering.

- Intelligence, surveillance and reconnaissance missions.
- Target acquisition missions.
- Border surveillance.
- Emergencies and natural disasters.
- Security of critical infrastructures.
- Creation of a communications network for areas without radio coverage.



### **Situational Awareness**

Management solutions for realtime mission information through a centralising and integrating software platform, at the control centre or on-board operational vehicles, based on proprietary development of the CPS Group.

- Data acquisition and processing.
- Batch data and Business Intelligence.
- Artificial Intelligence, prediction and analysis.
- Cartography and georeferenced and synoptic maps.
- Security and supervision mechanisms.
- Dashboard representation.



### Ad hoc Mobile IP Network

- Mobile broadband IP network solutions, without the need for a fixed infrastructure, for communications between deployed troops.
- High-capacity, long-range data links in line-of-sight (LoS) and near-line-of-sight (NLoS).
- Based on software defined radio (SDR) technology.
- Tactical Communications and Point-to-Multipoint Systems in millimetre waves.
- Beamforming and obtaining spatial information.





# 182

C/ Barbastro, 5 28022 Madrid (Spain) Phone: +34 913930396 www.krc.es

### KRC ESPAÑOLA, S.A.

### Naval

Systems & equipment

Electronics, communications & ICT C4ISR; cyber defence; systems & equipment; ICT

Specialists in computer and telecommunications engineering solutions. Design and supply of industrial IT equipment. Specialised maintenance and experts at military messaging systems, technology consulting and cybersecurity.

### Medium-/High-/Extreme-Performance Servers

Servers with medium, high or extreme performance designed for critical, corrosive and extreme environments. We manufacture fully customised equipment according to customer requirements. Equipment operates under Windows, Linux and Solaris operating systems.



Certifications ISO 9001 ISO 14001 ISO 27001 ISO 20000

### **Virtualisation Server**

Virtualisation server and cloud computing. Configurable according to end user requirements. Equipment operates under Windows, Linux and Solaris operating systems, with cloud and virtualisation software.



# Semi-Ruggedised Laptop with Mobile Server Capability

Semi-rugged laptop. IP 53/MIL-STD-810G.

Totally customisable, it operates under the Windows, Linux, Unix and Solaris operating systems, with desktop or mobile server functionality.



# High-performance Workstations

Workstations especially designed for simulation and automation environments. Configurable according to end user requirements. Operates under both the Windows and Linux operating systems.



### Scalable, Multi-purpose, Entry-Level Desktop Equipment

Scalable, multi-purpose desktop compatible with the Windows and Linux platforms. VDI.





# MÁLAGA AEROSPACE, DEFENSE AND ELECTRONICS SYSTEMS, S.A.U.

### Naval

Systems & equipment

### Aerospace

Aerial systems & equipment; satellite systems & equipment

Armament and ammunition Armament; missiles

Radars; surveillance & security; systems & equipment

# 184

Avda. Juan López de Peñalver, 12 29590 Málaga (Spain) Phone: +34 952249200 www.mades.es

MADES provides development, manufacturing, assembly, testing, integration and life cycle support services for critical electronics systems to the main contractors in Europe and North America. With 30 years of experience supplying advanced technology for major aerospace and defence programmes and other markets with highly reliable applications, in addition to providing complete service for the entire supply chain and life cycle of our customers' systems.

We have earned the confidence of our customers by applying Lean Manufacturing principles and adhering to MADES' rigorous Six Sigma programme. MADES is also certified according to EN 9100, PECAL and Nadcap 7120.

Examples of our complex systems include surveillance, telemetry, radar, radio frequency, power electronics, electro-optics, target identification and a host of other applications.

Certifications ISO 16949 ISO 9001 UNE EN 9100 PRI-NAPCAD PECAL / AQAP 2110

### **Defence Electronic Systems**

MADES offers the development of functional testing equipment for all your systems, including environmental testing, so that the final integration of these systems provides our customers with the utmost guarantees.

Our experience includes aid systems for navigation, communications, target acquisition and support for several aerospace and defence platforms and applications.



# **Defence Printed Circuit Boards**

MADES offers to its customers one of the best manufacturing plants in this sector, focused on defect prevention and process control. Considerable experience with critical processes such as conformal coating, key for these applications.

Our experience includes boards for telemetry and actuation systems for missiles, communications, launch systems, sight systems, target acquisition, surveillance, etc.



### **Civilian Electronics Systems**

As an extension to circuit board manufacturing, our customers prefer a complete solution for their products, including functional testing and system integration, which is always a very competitive solution.

Our experience includes automotive navigation systems and fleet management, radiofrequency (RF) devices, medical equipment, etc.



# **Printed Circuit Boards for civilian use**

MADES offers highly flexible and very competitive production capacity based on the design of smart processes to achieve optimum efficiency.

Our experience includes testing systems, radio communications, interoperability equipment, vision systems, medical equipment, etc.



### **Electronics for Radars**

MADES offers the development of electronics for all your radar systems, including environmental testing, so that the final integration of these systems provides our customers with the utmost quarantees.





### NÚCLEO DE COMUNICACIONES Y CONTROL, S.L.U.

### Lanc

Systems & equipment

### Naval

Systems & equipment; auxiliary industry & spares

### Aerospace

Aerial systems & equipment; simulation; satellite services; ground segment; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Armament and ammunition

Ammunition; missiles; industria auxiliar y repuestos

### Electronics, communications & ICT

Radars; electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; maintenance & life cycle support; ICT

Services, logistic & auxiliary Infrastructures; others

Consulting & engineering Consulting & engineering

# 186

C/ Virgilio, 2, Edif. 3 28233 Pozuelo de Alarcón (Madrid) Spain Phone: +34 918073999 www.nucleocc.com

Núcleo is an international company that belongs to the Amper Group. It operates in the field of engineering, providing turnkey solutions for communications and control systems, with specific products for the aviation, maritime, rail, energy, environmental, security and defence industries. In the field of security and defence, Núcleo is a leader in the manufacturing and installation of communication and control systems and has extensive and proven experience based on proprietary technology for command, control and communications: air and maritime traffic control; avionics and vetronics; military messaging; and mobile and deployable systems.

# **Command, Control and Communications Systems**

Núcleo has proven experience and capacity in the design and execution of turnkey command, control and communications projects according to military requirements:

- Command, control and communications centres (C3).
- Communications centres (CECOM).
- Stations, links and fixed and tactical communications networks.
- Surface-Air, Surface-Surface and Surface-Sea communications.
- Satellite communications.
- HF, VHF and UHF communications.
- IP networks.
- Communications management systems.
- Military Message Handling System (MHS).



Certifications OHSAS 18001 ISO 14001 ISO 9001 UNE EN 9100

# Air and Maritime Traffic Control Systems

ULISES V 5000i allows the management of audio and data resources of an air or maritime traffic control system, for application at airports, ports, air bases, heliports and command centres. It is based on VoIP technology in accordance with the specifications of Eurocae Working Group WG67, thereby constituting a digital communications management system. In addition to ULISES V5000i (proprietary design and manufacturina). Núcleo provides the integration of radio equipment, radio navigation, radars, visual aids, etc.



# Mobile and Transportable Units

Núcleo has proven capacity and experience to provide turnkey mobile and transportable systems within its field of activity in communications and control systems.

- Command posts.
- Transportable communications stations (Surface-Air-Surface).
- MW mobile radio links.
- Tactical communication networks.
- Radio navigation.
- Radio-electric measuring units.
- Mobile air traffic control towers.
- UAV ground control stations (GCS).
- Power generators.



# Communications Control Systems (Jammers)

SIGNUM J100 allows the jamming of mobile phone radio signals (3G-4G), radio transmitters, WLAN, WiMAX, Bluetooth, etc., thereby efficiently protecting buildings, vehicles and people. It uses the Software Defined Radio (SDR) technique, therefore incorporating programmable elements, and it supports combined active and reactive countermeasure modes. The SIGNUM J100 jammer allows detecting, classifying and generating radio signals in various frequency ranges: 20 MHz to 500 MHz. 700 MHz to 2.7 GHz and 3.5 GHz to 5.9 GHz.



### **Tactical Power Generators**

The AQUILES 1000M, a three-phase, 400/230 VAC (3P+N), 50-Hz power generator unit certified by NATO's NSPA, guarantees the electricity supply for areas with no permanent electric power and in the event of a network failure. The main features of the unit are the following:

- Full redundancy (two independent generators).
- Compliance with the strictest regulations on environmental characteristics (STANAG 2895), IP protection, impact and vibration.
- Ease of transport.





# 188

Ctra. Ártica, 29 31013 Berrioplano/Berriobeiti (Navarra) Spain Phone: +34 948346776 www.orbitalcs.com

### **ORBITAL SISTEMAS AEROESPACIALES, S.L.**

### Aerospace

Aerial systems & equipment; satellite systems & equipment; auxiliary industry & spares

Electronics, communications & ICT C4ISR; systems & equipment; simulation

Orbital Critical Systems provides its customers with the most advanced products, technology and solutions for the development of safety-critical systems for the aeronautical, space and rail sectors.

Our engineers are experts in certification and implementation of processes and standards that guarantee the quality and reliability of the projects on which we work.

Orbital Critical Systems has become a leader in safety-critical systems and their complete life cycle: design, development, verification, validation, certification and maintenance of hardware, software and systems.

### **Critical Systems**

- Development, integration and testing of Critical Software applied to the DO178B / C standard (up to DAL-A).
- Experience in BSP development for various RTOSs and architectures.
- Expertise in integrated modular technology (IMA) and ARINC 653 applications.
- Development and integration of user interfaces (HMI) and critical displays software based on ARINC 661.
- Specialised in avionics systems: navigation, communication, identification and safety. Mission, data link and electronic warfare systems.
- Design and deployment of test benches, ground support equipment (GSE) and simulation systems.



Certifications ISO 9001 UNE EN 9100

# FIT (Flexible Infrastructure for Testing)

FIT is a hardware architecture that manages and monitors interfaces of low and medium power.

Additionally, it adds advanced detection, signal injection and alarm management capabilities. As a result, it is perfect for V&V tasks performed in sectors with safety-critical requirements.



# Safety-Critical On-Board Computer

A hardware platform for critical on-board systems up to DAL A. Integrated with a multicore processor and the most widely used interfaces in the aerospace sector, such as AFDX, 1553, A429, Ethernet, Serial and CAN. Compatible with Integrity, VxWorks and DIMA-RTOS operating systems.





### **TECNOBIT, S.L.**

### land

Systems & equipment; simulation; auxiliary industry & spares

### Naval

Systems & equipment

### Aerospace

Aerial systems & equipment; simulation; ground segment; satellite systems & equipment; auxiliary industry & spares

Armament and ammunition Missiles; simulation

### Electronics, communications & IC7

Radars; electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; simulation; maintenance & life cycle support; ICT

# 190

C/ Marie Curie, 19 28521 Madrid (Spain) Phone: +34 916617161 www.grupooesia.com

Tecnobit, belonging to the Oesía Group, specialises in the development of electronics engineering for the defence and security sectors. The company's most important business areas are those related to embedded electronics systems, intelligent situational awareness, tactical communications, simulation and cyber security.

In all of these areas, thanks to Tecnobit's commitment to innovation and the use of key technologies, it offers the most innovative and effective solutions to the demanding requirements of the sector, which has allowed it to consolidate its position in the national and international markets. Nowadays Tecnobit has consolidated its leadership as a supplier of products and solutions of proprietary development in the international market, having become the preferred supplier of the most important companies in the defence and security sector.

Certifications
PECAL / AQAP 2310
ISO 14001
ISO 9001
PECAL / AQAP 2110
PECAL / AQAP 2210
UNE EN 9100
UNE EN 9110

# NIRST - Naval IRST (Naval Infrared Search & Track)

NIRST is an autonomous, 360° naval surveillance system with automatic, multiple-target detection and tracking capability. NIRST provides coverage against air, land and sea threats. It combines shortand long-range subsystems in a single integrated system, thereby providing multi-spectral capability by collecting information in the two main infrared bands: MWIR (Medium Wavelength Infrared) and LWIR (Long Wavelength Infrared), as well as information on the visible spectrum. Its architecture, which allows installation on the mast. facilitates integration with other sensors and facilitates the future evolution of the system. NIRST has been designed for the F-110 frigate.



### **ARGOS System**

The ARGOS system is a high-performance optronic system, intended for navigation, observation and surveillance at fixed installations, on ships and helicopters, etc. It is made up of a high-performance thermal imaging camera, a visible camera and a laser to measure ELRF distances. This system has the capability to automatically track the image from both cameras. An electro-optical, multi-sensor system mounted on a four-axis gyro-stabilised platform.



### LINPRO - Multi Data Link Processor

LINPRO (LINk PROcessor) is an advanced Tactical Data Link (TDL) processor that processes and integrates the Link11 A/B, Link 16, Link 22, JREAP-C and VMF data links, and it has dataforwarding capabilities between these protocols defined by the NATO STANAG standards, LINPRO is the result and evolution of nearly 20 years of knowledge and real experience. LINPRO can adopt various configurations, in software-only versions and software/hardware versions for different types of platforms and different types of interfaces with communications equipment and terminals, in addition to functionality modes and interfaces with respect to the CMS (Command and Control Management System).



### CIFPECOM - TZ-1001-R Tactical Encryptor

The TZ-1001R is a small-size tactical encryptor designed to protect the communications of soldiers and military vehicles. It provides simultaneous tactical voice encryption (SCIP multipoint) and IP data encryption (unicast and multicast) over networks with low bandwidth and no stable link (e.g., Combat Radio Network, "SATCOM on the move"). This encryptor provides an external security layer to command-and-control systems and tactical communication managers, regardless of the tactical radios used in each case. It is certified up to Restricted and Confidential security levels.

### TGOR V (Vehicular)

spectrum.

Radio (SDR), multi-mode (fixed frequency / frequency hopping, clear/encrypted) and multi-role based on SDR technology, certified according to SCA 2.2.2. It provides simultaneous transmission of voice, data, video, IP services and Friendly Force Tracking (FFT). It can host up to 3 RF channels. It has cognitive radio capabilities and dynamic spectrum assignment, thereby providing situational awareness of the electromagnetic

Vehicular V/UHF Software Defined

It provides Multi-Channel Reception (MCR), allowing to simultaneously receive multiple frequencies.

It has Mobile Ad-Hoc Network (MANET) capability with Wideband Waveforms and Narrowband Waveforms.





# THALES

C/ Diego Marín Aguilera, 1 28919 Leganés (Madrid) Spain Phone: +34 914532400 www.thalesgroup.com

# THALES PROGRAMAS DE ELECTRÓNICA Y COMUNICACIONES, S.A.U.

### Lanc

Systems & equipment

### Mayal

Systems & equipment; underwater systems

### Aerospace

RPAS; aerial systems & equipment; maintenance & life cycle support; auxiliary industry & spares

### Electronics, communications & IC7

Electronic warfare; C4ISR; surveillance & security; systems & equipment; simulation; ICT

Services, logistic & auxiliary CBRN

Thales Programas, a company of the Thales Group, specialises in command-and-control systems, tactical communications and modelling and simulation solutions in the areas of defence and security. Thales Programas is a Spanish leader in tactical Land CIS (Communication and Information Systems), therefore covering the entire life cycle of a product (from design to after-sales). Thales Programas employs a highly specialised workforce of over 100 people, most of whom are engineers.

Business activities of Thales Programas: C4ISR systems (command, control, communications, intelligence, security and reconnaissance), military communications and radio navigation aids for air traffic, surveillance and force protection systems, avionics and C-UAS systems.

Certifications ISO 14001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110 PECAL / AQAP 2210 UNE EN 9100 UNE EN 9110

# SC2 - Advanced C4ISR Systems

A complete set of C4ISR systems that can provide a common vision of the battlefield at all levels of command and control and for all functional areas in order to satisfy operational information needs, integrate the weapons direction system (WDS), network sensors, execute battlefield training simulation exercises and harmonise the communications sub-system. Compliance with NATO and MIP specifications and suitable for dual operations (civil and military).



# **GESCOM - Communications Management**

A tactical router for battlefield communications. It allows the routing of HF, VHF, Satellite and Line-of-Sight (LOS) communications in unicast and multicast format. It allows ACL access control, as well as the management of QoS and Policy-Based Routing (PBR) using an intuitive graphics management system. It includes TACOMS telephony and CNRI radio integration services.



# W@TCHER - Wireless Control Interface for VHF and HF

A wireless control interface for VHF (PR4G) and HF (TRC3700) radios from Thales. Composed of a Wireless Control Unit (WCU) that can be fitted on the soldier's forearm and a Bluetooth adapter connected to the radio to be controlled. It provides a simple way to access the main functions of different radios. It is compact, lightweight and designed to operate under severe conditions.



# **GECKO - Long-distance optronic solution**

GECKO-M is the long-distance optronic solution from Thales Spain for military vehicles. This solution can be used for many applications such as route clearance, border surveillance, etc.

The GECKO-M optronic head is prepared for installation on extendible masts. Two cameras are included (daytime and thermal), as well as two laser pointers (IR and visible). It also integrates a longrange laser rangefinder.



### **FULMAR - UAS**

The FULMAR UAS is a highly versatile system, with capabilities for a variety of missions such as mountain search and rescue, monitoring of illegal traffic, support for ground forces, intelligence missions, etc. The FULMAR is vital for increasing the ISR capability of armed forces through the use of advanced sensors that can be used both remotely and close to the area of interest. Moreover, Fulmar's high reliability and ease of use give it added value in joint operations.











### **ACUNTIA, S.A.U.**

C/ Valle de la Fuenfría, 3 28034 Madrid (Spain) Phone: +34 914560008 www.axians.es

Acuntia (Axians brand) is a Company that offers solutions and services in Information and Communications Technologies (ICT). We fulfil the needs of companies and public organisations as a supplier of solutions and services on IP convergence networks and secure systems and applications, supported by consulting, integration, management and externalisation services.

We have 20 years of experience in the Spanish market of Information and Communications Technologies, and we venture on specialisation and experience for taking care of modern telecommunications structures during their life cycle.

The company is certified by the main manufacturers of the ICT market: Cisco, Extreme, Juniper, Huawei, etc.

### AICOX SOLUCIONES, S.A.

Avda. Somosierra, 12, 1°, oficina A 28703 San Sebastián de los Reyes (Madrid) Spain Phone: +34 916592970 www.aicox.com

Aicox is one of the leading Information
Technology companies in Spain, with a
significant presence in Europe and Latin
America. It optimally integrates the best
technologies to create competitive advantages
for our customers. And it forms a highly
specialised human team together with our
suppliers.

# ALCORCE TELECOMUNICACIONES, S.L.

Avda. de las Águilas, 2 B, oficinas 4-8 28044 Madrid (Spain) Phone: +34 917106310 www.alcorce.es

A Spanish company that has been in the market for over 15 years.

- We provide solutions and services in the ICT sector.
- We work with national and international corporations, the latter on demand.
- We help businesses to create and support services in Information and Communications Technologies.
- Certified in services by the main manufacturers: Cisco, Huawei, Juniper, and Extreme Networks

### **ALHAMBRA SYSTEMS, S.A.**

C/ Albasanz, 16, 4<sup>a</sup> 28037 Madrid (Spain) Phone: +34 917872300 www.alhambrait.com

Alhambra is an IT company that helps any type of organisation protect its data, its communications and its processes against all types of incidents through secure services, within the environments of cyber security, cloud and multicloud, secure software, protected unified communications, Al and blockchain, among others.

It is notable for its extensive experience and specialisation in the financial management systems of the Public Administration.

Furthermore, it is recognised as having highly qualified professionals who share its original values: customer satisfaction, commitment, continuous improvement in service quality and innovation.

Certifications ISO 14001 ISO 20000 ISO 27001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110

Certifications ISO 166002 ISO 14001 ISO 9001 PECAL / AQAP 2110

Certifications ISO 9001 Certifications ISO 9001 ISO 14001 ISO 20000 ISO 27001 CMMI ISO 22301



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### ARTEIXO TELECOM, S.A.

Pol. Ind. de Penapurreira, Parcelas B1-B2 15320 As Pontes de García Rodríguez (A Coruña) Spain Phone: +34 981455025 www.arteixotelecom.com

Arteixo offers turnkey projects, from the design process to the manufacturing, installation and after-sales service of telecommunications equipment, while meeting the highest standards and specifications of excellence. We offer tailor-made services according to the needs of our customers.

### **AUTEK INGENIERÍA, S.L.**

Avda. de Burgos, 9, oficina 1 28036 Madrid (Spain) Phone: +34 915974629 www.autek.es

Autek is a Spanish manufacturer of cybersecurity products, specialising in secure information exchange across different security domains. For over 20 years it has been developing information security solutions for organisations of the public, defence and critical infrastructures sectors.

It has developed proprietary technology for perimeter protection devices, which are offered in two product lines: secure application-level gateways (PSTgateways) and hardware data diodes (PSTdiode).

Some of its products are Common Criteria certified and are included in the Catalogue of Approved ICT Security Products of the Spanish National Security Authority (CCN) and in the NATO Information Assurance Product Catalogue (NIAPC).

We work in close cooperation with our customers to develop new solutions to any cross-domain information sharing problem.

### **AVANSIS INTEGRACIÓN, S.L.**

C/ Cercedilla, 7 28925 Alcorcón (Madrid) Spain Phone: +34 915768484 www.avansis.es

Avansis is a company that specialises in providing integrated information technologies solutions for its customers. Its main priority is aligning the best technological solutions with customers' needs.

# BLANCH INTERNACIONAL & ASOCIADOS, S.L.

Blanch Internacional & Asociados (BIA), a

C/ Almanzora, 18 C 28023 Madrid (Spain) Phone: +34 917400056 www.blanch-internacional.com

Spanish company with offices in Spain and Portugal and founded 20 years ago, specialises in RDI and the supply of high-tech systems for defence and security forces, including integrated logistics support.

BIA is one of the main suppliers of electrooptical systems, thermal cameras, laser designators and night-time vision for the Ministry of Defence. Our solutions are deployed with the Spanish Army, Air Force and Navy. Our capacity for systems integration plus maintenance and our electro-optic laboratory are key factors for ensuring the life cycle of our systems and customer satisfaction.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 Certifications ISO 14001 ISO 20000 ISO 27001 ISO 9001 PECAL / AQAP 2110

Certifications ISO 9001



### **CENTRO REGIONAL DE SERVICIOS AVANZADOS, S.A.**

Plaza Santo Domingo de Guzmán, 1, planta 6ª 09004 Burgos (Spain) Phone: +34 947256250

www.csa.es

CSA was founded in 1996. Since then, it has continued to develop its work in providing services and solutions for information and communications systems.

Our work is centred on the following horizontal activities:

- Engineering and consulting.
- BPO.
- Support and maintenance of solutions. Providing services in the technology areas of:
- Communications.
- Security.
- Systems.
- Development.

Our commercial activities are focused on the following sectors:

- Industry.
- Public Administration.
- Banking and Stock Exchange.
- Health and Social Services.

### Certifications ISO 27001

ISO 14001

ISO 9001



### **COMPAÑÍA DE INSTRUMENTACIÓN Y** CONTROL, S.L.

C/ San José Artesano, 1, portal 1 B, planta 1ª 28108 Alcobendas (Madrid) Spain Phone: +34 914595490 www.cic-systems.com

Design, manufacture, sales, repair, maintenance and installation of communications equipment and systems for civil and military vessels; control systems for services and operations; positioning systems; telemetry and identification systems; telecommunications and electronics equipment; equipment for communications via radio, cable and satellite, etc.



### **COMPUTERS AND** COMMUNICATIONS **AEROMARINE, S.A.**

Avda. Pío XII, 10-12, bajo 28016 Madrid (Spain) Phone: +34 902170929 www.aeromarine.es

The company is engaged in marine navigation and communications electronics. It also has a software and IT division, which provides valueadded and process management solutions in the marine and industrial sectors, C&C Aeromarine offers its own domestic service network, thereby supporting both electronics and communications systems, in conjunction with a technical support team for IT systems, networks and communications.



### **ELECTROSONI. S.L.**

Avda. de Monelos, 107 entreplanta 15009 A Coruña (Spain) Phone: +34 981177935

Electrosoni, S.L. is a company that was established in 1980 and is currently engaged in the design, manufacturing, technical support for and maintenance of equipment for electronic countermeasures for national security forces and agencies and the Ministry of Defence. The company also has a specialised group engaged in providing technical support for the legal interception systems of national security agencies.

ISO 20000

Certifications ISO 9001 PECAL / AQAP 2110 Certifications ISO 9001 ISO 14001 ISO 27001

Certifications ISO 9001









# EPTISA TECNOLOGÍAS DE LA INFORMACIÓN, S.A.

C/ Emilio Muñoz, 35, planta 1ª 28037 Madrid (Spain) Phone: +34 915949500 www.ti.eptisa.com

Eptisa TI belongs to the Eptisa Group, an engineering and IT multinational committed to customer service. We apply technical knowledge, creativity, innovation and the latest technologies in order to advance towards the sustainable development of the society in benefit to people.

We deliver innovative solutions to a variety of sectors (public, defence, telecom, utilities, banking, insurance, industry and transport) by implementing information systems that improve the productivity and competitiveness of organisations.

Our experience allows us to offer global solutions in different areas of business activity (geographic information systems, enterprise search and devices for mapping & GIS).

### **EXCEM GRUPO 1971, S.A.**

Paseo de la Castellana, 93, planta 9ª 28046 Madrid (Spain) Phone: +34 914174620 www.excem.com

The Excem Group was originally founded in 1971 by Mauricio Hatchwell Toledano as a Spanish commercial company, and since then, it has successfully evolved into a diversified international group whose areas of activity include cement, telecommunications, national security and defence, as well as consulting and advising services for large organisations. We create value based on our extensive knowledge of international business, our flexibility and our know-how in establishing the appropriate alliances in local markets. Our commitment to large emerging markets such as China has positioned the group to participate in the strong growth of these regions in upcoming years.

### **FUTURE SPACE, S.A.**

Avda. Tenerife, 2 28703 San Sebastián de los Reyes (Madrid) Spain Phone: +34 916586609 www.futurespace.es

Future Space is a Spanish software engineering company specialising in the development of innovative solutions within the area of information systems, therefore using the latest technologies in telecommunications and defence and security in order to develop solutions and products for critical systems oriented at business in different sectors. We have proprietary intelligence solutions in Open Sources (OSINT), big data and analytics focused on the defence sector. We also develop police information systems and solutions that support and manage the intelligence cycle. Our 15 years of national and international experience has allowed us to become a trusted partner through our value proposal.

### I.C.A. INFORMÁTICA Y COMUNICACIONES AVANZADAS, S.L.

C/ La Rábida, 27 28039 Madrid (Spain) Phone: +34 913119844 www.grupoica.com

The ICA Group was founded in 1983 and is 100% Spanish-owned, formed by over 650 professionals and focuses its business activity on ICT security engineering, cyber defence, consulting, networks, systems and software development.

Since the year 2000, the ICA Group has been developing proprietary cybersecurity products and services:

- LogICA y MONICA (NGSIEM). Common Criteria EAL2, CCN Qualified Product.
- BoxICA (IDS and anomaly detection).
- Achilles (automated vulnerability scanning systems)

From our CERT and CiberSOC, as members of CSIRT.es, TFCSIRT and FIRST, we offer the following services:

- Security monitoring.
- Cyber-surveillance.
- Endpoint protection.
- Security audits.
- Advanced analytics of cybercrime threats.
- Early warning of vulnerabilities.

Certifications ISO 9001 ISO 14001 CMMI Certifications ISO 9001 ISO 27001 ISO 14001 Certifications ISO 14001 ISO 9001 ISO 20000

Certifications ISO 27001, ISO 9001, ISO 14001, ISO 20000, CMMI, ENS High Level









### **INETUM ESPAÑA, S.A.**

Travesía Costa Brava, 4 28034 Madrid Phone: +34 913874700 www.inetum.world

The activities of Inetum España, S.A. (formerly IECISA) in the Defence industry are structured in 4 areas:

- C4ISR Command and Control Systems, for the deployment of own forces in field operations, coordinating the tasks of command, communication between units, intelligence development and reconnaissance.
- Systems for obtaining and linking multiple data sources, generating the intelligence information required for planning the operations of deployed forces.
- Signal Intelligence systems (SIGINT), for the interception, location and processing of signals, with extensive experience in radio communications analysis (COMINT).
- Sustaining Logistics Platforms and creating ad hoc applications for the logistics management of the Armies.

### **INNOTEC SYSTEM, S.L.U.**

Avda. Llano Castellano, 43 28034 Madrid (Spain) Phone: +34 915982653 www.innotec.security

We are the cyber security division of Entelgy and have been present in the market since 2002.

Our team of 450 specialists, who hold the main certifications in the sector, operate in 15 countries with over 250 customers. In order to be able to guarantee quality protection for our customers, we have merged intelligence, talent and the most advanced technology in our SmartSOC, one of the most advanced security operations centres in the world.

As a result, our customers include some of the main companies of the IBEX 35 and the most important Spanish and international public bodies, such as NATO, the UN, the OAS, CCN/CNI, Incibe, Enisa, etc.

# INNOVACIÓN GLOBAL DE SEGURIDAD, S.A.

C/ Pierre Curie, 17 28806 Alcalá de Henares (Madrid) Spain Phone: +34 918774101 www.inglobaseguridad.com

Design, engineering, installation and maintenance of security and fire protection systems. The main business activity is the installation and maintenance of security systems at large military infrastructures (air bases, barracks, etc.), in addition to airports, explosives depots, prisons, air navigation facilities, museums and representative administrative buildings such as the Canary Islands Parliament and the Parliament of Valencia

In a notable project for the Ministry of Defence, Ingloba was awarded a project called MESETA, an intrusion detection system for deployment in Army operations, composed of 2 mid-range radar systems with an optronics system (thermal and visible camera), unattended detectors and command and control software.

### INSTRUMENTACIÓN Y CONTROL DEL SUR, S.L.

C/ Manantial 13, nave 4 11500 El Puerto de Santa María (Cádiz) Spain Phone: +34 956833700 www.surcontrol.com

A company engaged in automation engineering, control and supervision of systems, robotised cells, home automation, consulting and assistance for companies in engineering works and advanced technical training.

Certifications ISO 14001 CMMI ISO 27001 ISO 20000

Certifications ISO 22301 ISO 27001 Certifications ISO 14001 ISO 9001 OHSAS 18001 ISO 27001

Certifications ISO 9001 ISO 14001 OHSAS 18001









### **INTERGRAPH ESPAÑA, S.A.**

C/ Gobelas, 47 28023 Madrid (Spain) Phone: +34 917088800 www.intergraph.es

A company engaged in geospatial engineering and software that allows viewing complex data. Companies and governments from over 60 countries trust our solutions for industry to organise huge amounts of data in the form of understandable visual representations in order to adopt the most intelligent decisions. Our solutions and services allow the most efficient construction and management of industrial facilities and ships, and they allow creating smart maps and protecting critical infrastructures and millions of people all over the world.

Integraph is a part of Hexagon, the world's leading provider in design, measurement and visualisation technologies that allow customers to design, measure, position objects and process and present data.

### J.P. ALCARAZ ELECTRÓNICA, S.L.

C/ Berlín, Nave 1, parcela B2,Pol. Ind. Cabezo Baeza 30353 Cartagena (Murcia) Spain Phone: +34 968324005

FIIOIIE. +34 300324003

A company specialising in electronics, electricity and the maintenance of hyperbaric chambers at industrial, naval and military complexes.

# JOJACAR TELECOMUNICACIONES, S.L.

C/ Lérida, 9, local 1 28020 Madrid (Spain) Phone: +34 915722927 www.jojacar.com

Jojacar Telecomunicaciones is formed by a group of professional engineers and experts in the economic field who are knowledgeable of the demands of the electrical and electronics sector, and particularly the telecommunications sector. Therefore, in the field of telecommunications we specialise on the installation and maintenance of radio links, HF antennas, infrastructures and associated electronic equipment. We also specialise in intelligent data networks, including installation and certification, in addition to structured cabling, latest-generation fibre optic links and all the necessary instrumentation.

### MILETHOS TECHNOLOGIES, S.L.

C\ Manantial 13, oficina 138 11500 El Puerto de Santa María (Cádiz) Spain Phone: +34 956053061 www.milethos.com

Milethos Technologies is a company specialising in software consulting and engineering. It was founded in 2004. At Milethos Technologies we offer our customers technological solutions framed within the fields of defence, the automotive industry, consumer electronics and air traffic management.

Thanks to our commitment to quality and our experience, we define ourselves as specialists in critical information systems, therefore providing broad coverage for the life cycle of our customers' products.





# SANTANDER



# MNEMO, EVOLUTION & INTEGRATION SERVICES, S.A.

C/ Cardenal Marcelo Spínola, 14, 5ª planta 28016 Madrid (Spain) Phone: +34 914176776 www.mnemo.com

MNEMO is a private Spanish company founded in 2001. It has over 700 employees, with its headquarters in Madrid (Spain) and offices in Colombia and Mexico. MNEMO has carried out projects internationally in eleven different countries, mainly in Europe, North America and Latin America.

MNEMO has three security operations centres officially approved as CERT (Computer Emergency Response Team), and it is a member of FIRST. These centres are specialised in electronic fraud (focused on the financial sector) and in the preventive protection of SCADA Systems at critical infrastructures.

### **NEXTRET, S.L.**

Avda. del General Perón, 27 28020 Madrid (Spain) Phone: +34 917021645 www.nextret.net

NexTReT is an IT consulting company engaged in optimising its customers' ICT areas, therefore providing services and solutions related to ICT infrastructures, applications development and quality service solutions.

Since 1993, NexTReT has carried out over 5,000 projects, with over 300 engineers committed to its customers. Certified quality methodologies and over 200 strategic partner certifications (Citrix, Huawei, Microsoft, Oracle, VMware, etc.) ensure the success of our projects and services, including the most innovative solutions and the best support.

### **SANTANDER TELEPORT, S.L.**

C/ Albert Einstein, 44, parque científico y tecnológico de Cantabria 39011 Santander (Cantabria) Spain Phone: +34 942016346 www.santanderteleport.com

Santander Teleport is a satellite communications service provider that has its own state-of-the-art teleport facility in Spain, from which it provides services to several national and international companies and government organisations.

The teleport facilities are built to the highest standards of security and resilience and are operated 24/7 to provide critical communications services. It also has a secure technical room built according to NATO standards.

Santander Teleport is committed to maintaining the highest quality standards, it currently holds ISO 9001 and WTA certifications and is about to earn ISO 27001 certification.

Its services include managed VSAT services, antenna and equipment hosting, uplink/downlink, VNO services, terrestrial connectivity, engineering, consulting and 24/7 support.

### **SIADDE SOLUCIONES, S.A.**

C/ San Máximo, 31, planta 2ª, local 8 28041 Madrid (Spain) Phone: +34 915003829

www.siadde.es

Siadde Soluciones is an innovator and a global partner providing technology solutions and services for communications and information technologies for private companies and public bodies.

We have distinguished ourselves by developing and implementing turnkey projects and offering the most advanced techniques of project and service integration, therefore making the firm commitment to innovation and continuous improvement in procedures that contribute efficiency and profitability.

We design and implement systems in various ICT fields, consequently managing the entire life cycle of projects and contributing the added value of systems integration capability with global engineering, software development, implementation, installation, commissioning, documentation and maintenance.

Certifications ISO 14001 ISO 27001 ISO 9001 ISO 22301 ISO 20000 Certifications ISO 14001 ISO 27001 ISO 9001 ISO 15504 ISO 20000

Certifications ISO 9001 Certifications ISO 9001 ISO 14001 ISO 27001



# **ts** tsyvalue

### \_Teditronic\_



# SOOLOGIC TECHNOLOGICAL SOLUTIONS, S.L.

Parque Tecnológico Aeropolis, C/ Hispano Aviación, 7-9

41300 La Rinconada (Sevilla) Spain Phone: +34 954432660

www.soologic.com

Soologic is a company based in Spain, whose business is mainly engaged in consulting and the design, development, construction, implementation and maintenance of information systems in the areas of:

- Information technology.
- Systems and simulation engineering (control systems, supervision and monitoring, simulators and test benches).
- Naval Systems (SCOMBA and F105 programmes).

### TAISA SYVALUE, S.L.

Avd. de la Victoria, 23 28224 Madrid (Spain) Phone: +34 917991139 www.syvalue.com

Distribution, marketing and sales of information equipment and similar items, including both equipment and software. Design and delivery of services. Technical assistance and maintenance for computing equipment and software.

### **TEDITRONIC, S.L.**

Avd. Luxemburgo, parcela G7 Pol. Ind. Cabezo Beaza

30353 Cartagena (Murcia) Spain Phone: +34 968529214 http://teditronic2.wordpress.com

Teditronic, S.L. is a Spanish company with 26 years of experience. It is currently focused on providing electronics, communications and electricity services.

While maintaining a close relationship with our customers, we are committed to personally satisfying their needs. Our range of solutions covers the installation, maintenance and repair of the following:

- Telephone exchanges.
- Public address systems.
- Communications, optical fibre, cable, Wi-Fi and satellite networks.
- HF, VHF, UHF and TETRA radio.
- Intrusion systems and CCTV.
- Fire protection, detection and extinguishing systems.
- Repair of electronic equipment.
- Renewable energies.

Constantly updating itself, Teditronic, S.L. continues to strengthen its position in the national market, while remaining committed to internationalisation.

### **TELTRONIC, S.A.U.**

Pol. Malpica, C/ F-Oeste 50016 Zaragoza (Spain) Phone: +34 976465656 www.teltronic.es

Backed by over 45 years of experience,
Teltronic is a global leader in the design,
manufacturing and implementation of
mission-critical communications equipment
and systems. With innovation and the highest
quality as its objectives, the company offers
comprehensive wireless communications
solutions. It is the only company in the Spanish
market whose technological independence and
customisation capacity allow it to adapt to the
specific needs of each project.

It has a full range of communications solutions, including TETRA and LTE infrastructures, vehicular and portable terminals, control and dispatch centres and video surveillance solutions. With over 500 networks in more than 60 countries, it has extensive experience with governments and defence agencies worldwide.

Certifications ISO 14001 ISO 9001 OHSAS 18001

Certifications





### **TICOMSA SISTEMAS, S.L.**

C/ Budapest, 108, Pol. Ind. Cabezo Beaza, Aptdo. 2100 30353 Cartagena (Murcia) Spain Phone: +34 968324228 www.ticomsa.com

Ticomsa Sistemas, S.L. is an engineering firm specialising in the global integration of communications systems, focusing on the design, installation and maintenance of converged solutions in the areas of:

- Communications infrastructure (copper, fibre and radio) and Data Processing Centres.
- Voice and data transmissions.
- Emergencies, security and access control.
- Audiovisual systems.
- Satellite communications.
- Special installations.

Research and development on new products and the global integration of custom systems for our customers, together with a highly qualified and flexible working team, allow Ticomsa to integrate quality telecommunications systems for its customers.

Certifications ISO 9001 ISO 14001

ISO 45001

### TRC INFORMÁTICA, S.L.

C/ Albasanz, 25 28037 Madrid (Spain) Phone: +34 912670100 www.grupotrc.com

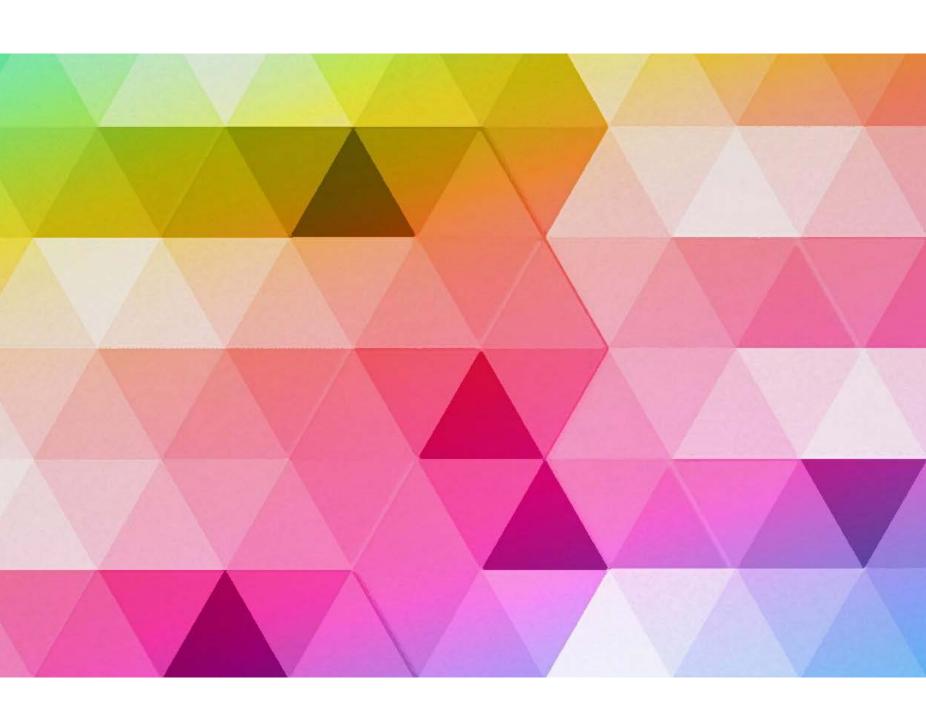
The TRC Group, with more than 30 years of experience in the telecommunications sector, has consolidated its presence as a specialised software developer and integrator and a technology provider. We focus our activity on the design, deployment, commissioning and maintenance of:

- Integration of telecommunications systems (networking, secure mobility platforms, virtualisation, hyperconvergence, storage and Cloud services).
- Cybersecurity services.
- IT infrastructure deployment (SCS, security systems, audiovisuals, Data Centre, etc.).
- Development of specialised software and applications with an R&D division.
- Operator as a provider of connectivity and unified communications.

ISO 14001 ISO 15504 ISO 9001 ISO 20000 ISO 27001 ISO 45001 ISO/IEC 33001

Certifications







# Logistics, Ancillary & Services Sector



# 206

Avda. San Martín de Valdeiglesias, 2 28922 Alcorcón (Madrid) Spain Phone: +34 916427042 www.grupoalonso.com

### **ALONSO HIPERCAS, S.A.**

Services, logistic & auxiliary Food; consumer goods

The company Alonso Hipercas, S.A. was established in 1982. Corporate activities: procurement, sale, supply, storage, packing, distribution, wholesale and retail trade, import and export of all kinds of consumer products, food products, civilian or military ration packs, canned products, food and hygiene packages for humanitarian aid, Christmas gifts, products of all kinds of military equipment, uniforms, berets, boots, tents, vehicles and protection for developing activities in national defence, foreign defence or the defence of international organisations.

### **Individual Rations**

Combat and campaign rations. Individual ration packs.
They include everything necessary for consumption, heating, hygiene before and after eating, drinking water and other food supplements. Rations designed for troop movements in theatres of operations and for logistics, infrastructures and the necessary services for forward positions.

- Breakfast.
- Food a.
- Food b.
- Reinforcement.
- Emergency ration.
- Bread.



Certifications ISO 9001

### **Collective Rations**

Combat and campaign rations.
Collective rations for 10 people.
Rations composed of first and second courses, 19 different meals, hot and cold dishes, *halal*, etc.
They can be complemented with dessert, preferably fresh fruit.



# **Food and Christmas Packages- Gifts**

We are backed by our experience in the industry. This year we are celebrating our 50th anniversary of dedication to preparing and distributing Christmas batches and baskets.



### **Special Catering Crews**

Catering of special flight crew rations, which can be eaten cold.



### **Wholesale Food Products**

Hipercas: Wholesale warehouse of 5,000 m<sup>2</sup>. Wholesale specialists - Hostels, restaurants and catering.





# 208

Paseo de la Castellana, 115, 3° izq. 28046 Madrid (Spain) Phone: +34 915631744 www.cimsa.com

### **CIMSA INGENIERÍA DE SISTEMAS, S.A.**

Aerial systems & equipment

Uniforms & equipment

Design, development, production, maintenance and marketing of textile structures and deceleration systems, stabilisers, lifting systems, flotation systems, security and communications systems, positioning and guidance systems. Marketing of technical garments and military parachute components and accessories.

### **C400 Airborne Troops Parachute**

The C400 is the most advanced parachute system used on large aerial platforms with high-speed drops, such as the C-130, the C-17 or the A400M. Its 45-foot diameter, polyconic main canopy allows it to be used in up to 150 knots, with a rate of descent of 4.92 meters per second holding 185 kg of suspended weight. The reserve chute includes the pre-installation of the newest automatic activation device (AAD SLS CYPRES 2) for static line parachutes.

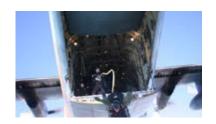
Certifications PECAL / AQAP 2310 ISO 9001 PECAL / AQAP 2110 **UNE EN 9100** 



# JANUS-400 Multi-mission Tactical System

The JANUS-400 tactical system is a multi-mission parachute system for tandem and solo jumps with versatile ram-air canopies, designed for paratrooper operations of airborne infiltrations from 25,000 ft MSL.

The JANUS-400 multi-mission tactical system combines the tactical plus canopies, ram-air type, with 9 and 11 cells and 400-440 square feet of surface area, using the JANUS-400 harness/container system that covers all tactical configurations for up to 260 kg of operational weight.



# EF-2000 Aircraft Brake Parachute

Cimsa Ingeniería de Sistemas manufactures and maintains the complete system and the spare parts of the Eurofighter brake parachute.



# JANUS-300 Multi-mission Tactical System

The JANUS-300 tactical system is a multi-mission parachute equipment for solo and tandem jumps with versatile ram-air canopies for paratrooper operations of airborne infiltrations from 33,000 ft MSL. The JANUS-300 tactical system allows combining modern and reliable tactical plus canopies, ram-air type, with 7, 9 and/or 11 cells, with the JANUS-300 harness/container system according to the specific mission to be undertaken.





**TP-2Z Troop Parachute System** 

development of a new generation

of round parachutes that respond

jumps, pinpoint landings for special

forces teams, etc.) for paratroopers

of the most developed countries.

to the newest trends (massive

TP-2Z system is the latest



Pol. Ind. Fuente del Rey, Ctra. Isla Menor km 1 41703 Dos Hermanas (Sevilla) Spain Phone: +34 954680909 www.grupoditecsa.com

### **DISEÑOS Y PROYECTOS TÉCNICOS, S.A.**

Naval

Systems & equipment

Electronics, communications & ICT Surveillance & security

Services, logistic & auxiliary Infrastructures; auxiliary industry and machinery; others DITECSA is a company engaged in the mechanical and electrical installation, including instrumentation and control systems, of all types of industrial plants, plus comprehensive industrial maintenance, for which it performs the following activities:

- Development and product engineering.
- Comprehensive execution of industrial projects and works (EPC).
- Mechanical installations.
- Electricity, instrumentation and control.
- Comprehensive manufacturing and logistics.
- Industrial maintenance.
   Sectors: energy, petrochemicals, refining, cement, mining, naval, iron and steel and food.

### Mechanical Assembly of Equipment, Machinery and Piping

- Mechanical assembly of equipment and machinery: high-performance equipment (i.e., turbines, mills, boilers, etc.), especially in fluid or gas production rooms and on the large equipment of factories.
- Installation of piping: supply, manufacturing and assembly of any fluid pipes, including piping of any material or specification.
   DITECSA is officially approved for naval construction, refineries and combined cycle power plants.
   We have extensive experience in the manufacture and assembly of equipment and piping on ships (engine room and deck).



Logistics, Ancillary & Services Sector

Certifications ISO 3834 ISO 14001 ISO 9001 OHSAS 18001

# Industrial Mechanical Maintenance

### Scope:

- Corrective maintenance.
- Preventive maintenance.
- Predictive maintenance.
- Modifying maintenance (improvements).
- Legal maintenance.

### Fields:

- Mechanical: high-performance equipment (turbines, mills, boilers, etc.) and fluid systems (piping).
- Industrial cleaning.



# Industrial Electrical Maintenance

### Scope:

- Corrective maintenance.
- Preventive maintenance.
- Predictive maintenance.
- Modifying maintenance (improvements).
- Legal maintenance.

### Fields:

- Power plants.
- Substations.
- Distribution lines and networks (high-, medium- and low-voltage).
- Earthing networks.
- Lighting.
- Supplies and complementary services (panels, cables, cabinets, etc.).
- Instrumentation and control: equipment and instruments, systems.
- Analyser systems.



# **General Manufacturing and Assembly of Boilers**

Materials: carbon steel, stainless steel and alloys.

### Types:

- Pressure vessels.
- Storage, containment and filtering tanks.
- Flotation cells for mineral treatment.
- Industrial hoppers.



# Manufacturing and Installation of Ducts and Rigid Pipes

Supply, manufacturing, installation and complete surface treatments of any piping system for different fluids.

Materials: carbon steel, stainless steel, alloys, polyethylene and polypropylene.

Types and applications: water, steam, oil, gas, compressed air, fire protection, food fluids.

Sectors: naval industry, energy industry, petrochemicals, refining, cement, mining, iron and steel, manufacturing, foods & beverages, water, waste and the automotive industry.



### **EL CORTE INGLÉS, S.A**

Services, logistic & auxiliary

Field logistic; infrastructures; CBRN; uniforms & equipment; auxiliary industry and machinery; others; consumer goods

At El Corte Inglés, Businesses Division, we are experts in offering solutions to companies and public institutions because we share with our customers their desire to ensure that something important turns out well. More than 50 years of working with professionals from many sectors has given us the necessary experience to handle all types of projects with high quality and assurance. At El Corte Inglés, Businesses Division, we work hard to get your project off the ground and achieve the desired result. Whether you run a business, a hotel, a school or a hospital complex, everything is much easier with El Corte Inglés, Businesses Division, because our customers have the peace of mind that comes from being in the hands of an innovative and expert team of people.

# Military Uniforms and Accessories

Meeting the protection, safety, comfort and functionality requirements of users, in addition to transmitting the right image.

- Homogeneous image.
- Work clothing.
- Uniforms for groups.
- Footwear and accessories.
- PPE.

Phases of the process:

- Contact with the customer.
- Design and development of the uniform.
- Management of the operation.
- Information on the operation and logistics.







### **Furniture**

Advice on the most suitable equipment, customising the best solutions to achieve the best performance.

- General furniture.
- Hospitality.
- Health care.
- Education.
- Office.
- Clinic and laboratory.



### **Audiovisuals**

Providing the customer with all the latest market innovations in electronics, audiovisuals and office equipment for their workplace.



### **HVAC**

We are a comprehensive supplier of HVAC solutions (Heating, Ventilation and Air Conditioning), in addition to the heating and production of sanitary hot water, from the supply and installation of domestic equipment to large, centralised systems, solar energy, geothermal energy and precision equipment.



### **Industrial Kitchens**

Design and installation of the materials required to equip a kitchen according to the needs of each business: restaurants, hotels, communities, residences and schools. When it comes to equipping an industrial kitchen or laundry, it is necessary to consider a series of basic factors, such as work and food flows, current legislation, new technologies and trends. Our team of specialised professionals offers advising and service, from project planning to delivery of the finished project.





Pol. Centrovía. C/ La Habana, 25 50198 La Muela (Zaragoza) Spain Phone: +34 976144770 www.arpaemc.com

### **EQUIPOS MÓVILES DE CAMPAÑA ARPA, S.A.U.**

### land

Systems & equipment

Armament & ammunition
Ancillary industry & spare parts

Electronics, communications & ICT Systems & equipment

Logistics, ancillary & services Field logistics; infrastructures; CBRN; uniforms & equipment; health & medicine; ancillary industry & machinery EMC ARPA designs, manufactures and markets logistics solutions for diverse types of mobile platforms such as containers, trailers, modular architecture or tents, therefore creating innovative solutions for military logistics, field hospitals and camps and providing global logistics: kitchens, tents, ammunition containers, logistic trailers, hangars or medical infrastructures.

ARPA's solutions are or have been deployed in multiple international missions to maintain the peace, thus forming a part of the logistics for numerous armed forces and international organisations.

It has supplied totally equipped and ready-to-use (turnkey), integral projects.

### **Field Hospitals on a Container**

ARPA designs and develops field hospitals ranging from 100 to 500 beds, with customisable configurations that incorporate the necessary medical specialities on 20' containers (simple or expandable), thereby allowing fast deployment and assembly, with unbeatable quality and technology. Using containers improves comfort and functionality and the control of asepsis in medical areas.



Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110

### **Fridge Container**

A fridge container (ISO 40', 20' or 10') designed for the transport and storage of food.

Equipped with cooling equipment that regulates the temperature inside and keeps it constant at the requested level, regardless of the outside temperature.

The container is divided into a refrigerating chamber and freezing chamber.

Stainless steel equipment.



### **Camps**

ARPA develops comprehensive projects such as military camps, refugee camps, life zones, mining and petroleum industry camps and civilian camps for NGOs and youth organisations, therefore incorporating all the necessary services for deployment and operation.



### **Various Trailer Models**

Lightweight logistics trailers suitable for military or civilian use in order to cover any need for logistics support (from food to hygiene, energy, water and general transport).

ARPA manufactures all kind of trailers, including kitchens, showers, laundries, refrigerators, generator sets, etc. One of the most innovative solutions is a water treatment plant powered by solar energy.

Reliable, with minimum maintenance and towable by any kind of military vehicle with a NATO connection.



### **Data Processing Centre**

A data protection centre is an infrastructure that contains specific installations to house computer servers in a fully controlled environment in order to ensure that computers will always be operational.



# Logistics, Ancillary & Services Sector



# 216

C/ Acacias, 3

28703 San Sebastián de los Reyes (Madrid) Spain

Phone: +34 916523400

www.fecsa.net

### FÁBRICA ESPAÑOLA DE CONFECCIONES, S.A.

Services, logistic & auxiliary CBRN; uniforms & equipment

FECSA is a company belonging to the textile industry. It was founded in 1934, is Spanish owned, has 158 employees and holds internationally recognised certificates.

Our customers are mainly defence and security forces (70%) and corporate image customers (30%), both national and international and including multinational organisations.

Our technology is focused on flame resistant clothing, ballistic and stab protection, combat helmets, CBRN suits, weatherproof clothing, camouflage, anti-bacteria, antistatic and anti-mosquito protection, among others.

### **Combat Helmet**

Combat helmet with ballistic protection:

- Maximum weight of 1,350 g.
- V50 = > 650 mm/s.
- 9 mm Parabellum 425 +/-15 m/s.
- Trauma = < 20 mm.
- 68 °C to -40 °C.
- Saltwater immersion for 12 hours.
- Ageing cycles and solar radiation.







Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110

#### **Bullet-Proof Vests for Internal and External Use**

Soft and/or hard bullet and fragmentation protection combat vests for short and long guns, according to NIJ standards. Multiarea protection, weight-adjusted, minimum thickness, improved breathability and MOLLE strap system.



#### Fire Resistant Flight Crew Overall and Jacket

Fire resistant pilot uniform composed of reversible jacket and overall or uniform. The jacket includes an outer camouflaged fabric and an inner HiVi fabric.



#### **Sleeping Systems**

Sleeping systems manufactured with a variety of camouflages, including medium-weight and lightweight sleeping bags, liners, compression sacks, bivouac roofs, mats and bivouac sacks.

Temperature resistance > -36 °C.



#### **CBRN** suits

CBRN suits, including uniform, mask, overboots and gloves. We have developed different protective solutions, such as carbon foam, spheres and carbonised fabric.





#### 218

C/ Metalurgia, 53-55

08908 L'Hospitalet de Llobregat (Barcelona) Spain

Phone: +34 932234823 www.gutmar.com

#### **GUTMAR, S.A.**

#### Land

Systems & Equipment

#### Aerospace

Aerial systems & equipment; satellite systems & equipment

Services, logistic & auxiliary Ancillary industry & machinery Precision machining and assembly of high technological value. Since 1951, Gutmar has specialised in precision mechanics and assembling high technological level sub-assemblies, mainly for the aeronautical, space, robotics and biomedical sectors.

#### **BMR Suspension Cylinder**

Oleo-pneumatic suspension system for the BMR military vehicle. Manufactured and repaired under a proprietary patent.



Certifications ISO 9001 PECAL / AQAP 2110 UNE EN 9100

# Logistics, Ancillary & Services Sector

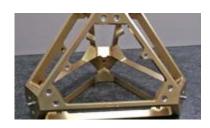
#### A400M Military Aircraft Landing Gear

A400M aircraft hydraulic actuators for Main Landing Gear (MLG) Retraction, the ramp actuator and the actuator of the Nose Landing Gear (NLG) Door.



#### Various Machined Components

Complex, five-axis milled components, made from exotic materials (titanium, invar) for the Space Sector.



#### Machined Parts and Mechanical Sub-assemblies

Mechanical, electrical and hydraulic assemblies for the defence and industrial Sectors.





#### 220

Pol. San Valero, nave 70 50013 Zaragoza (Spain) Phone: +34 976454418 www.hispanovema.es

#### **HISPANO VEMA, S.L.**

#### and

Systems & equipment

#### Services, logistic & auxiliary

Field logistics; infrastructures; CBRN; uniforms & equipment; health & medicine; ancillary industry & machinery

HISPANO VEMA, S.L. is a Spanish company based in Zaragoza (Spain) and an expert in creating customised solutions that are reliable and technologically advanced.

In the defence and security sector, our services focus on the design, development and manufacturing of equipment and integrated systems:

- CBRN decontamination and collective protection.
- Logistics shelters and field hospitals, manufacturing of shelters and containers for different applications and semipermanent tents and hangars.
- Water treatment plants.
- Field hospitals (combinations between tents and deployable containers).
- Mobility accessories for camps and hospitals.

#### Special Bodywork

Special shelters or trailers customised for customers for multipurpose solutions.



Certifications ISO 9001 PECAL / AQAP 2110

#### **CBRN Decontamination Equipment**

CBRN decontamination systems (decontamination of people, vehicles, terrains, surfaces, sensitive equipment) integrated in trailers, tents, shelters and ISO containers.



#### Field Logistics Equipment and Systems

Field logistics for army camps or humanitarian tasks: tents, shelters, laundries, kitchens, toilets, hospitals, command posts, etc.



#### **Field Tents**

Multi-purpose tents for military camps: semi-permanent or structural tents or inflatable tents. Different configurations and sizes.





#### 222

Camino Robledo de Chavela, 9B 28210 Valdemorillo (Madrid) Spain Phone: +34 918990990 www.i-4s.com

#### **INNOVATION FOR SHELTER, S.L.**

Electronics, communications & ICT Surveillance & security

Services, logistic & auxiliary Field logistics; CBRN; uniforms & equipment; health & medicine I-4S was established in 2000 in Madrid (Spain) by professionals with 20 years of experience in the military and emergencies markets for the design and manufacturing of materials for field logistics and CBRN. Most of our customers belong to NATO countries. Our activity includes the manufacturing, sales and maintenance of tents with a quick-erect external frame system, in addition to field logistics accessories and CBRN defence products, all of which are used for applications such as base camps, command posts, field hospitals, CBRN DECON units, collective CBRN protection (COLPRO) and individual CBRN protection. We have an eCat1 framework agreement with the NSPA (No. LB-IFS-01) for our tent items.

Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110

#### **Camp and Field Logistics**

The TV tent is a modular external frame system. Set-up and fold-down are safe, quick and easy, requiring no tools. Big internal space due to new vertical walls. It can be used for all applications: command posts, field camps, hospitals and COLPRO. Compatible with all other models so that they can be interconnected. Improved logistics benefits: reduced weight and volume for transport and storage. Models: T18V (3 x 6 m), T36V (6 x 6 m), T54V (9 x 6 m).





#### 224

Avda. Roberto Osborne, 5 41007 Sevilla (Spain) Phone: +34 670990979 www.iturri.com

#### ITURRI, S.A.

#### land

Vehicles; systems & equipment

#### Aerospace

Maintenance & life cycle support

#### Services, logistic & auxiliary

CBRN; uniforms & equipment; auxiliary industry and machinery; others

The ITURRI Group is committed to specialisation, and offers solutions with added value for the continuous improvement of products and services.

We are focused on helping our customers in the field of security and the protection of people, processes, assets and the environment.

We are committed to the manufacturing of technical work clothing, military footwear and firefighting vehicles with a highly technical and innovative component, in addition to the integral service of equipment and solutions, always seeking to benefit our customers.

#### **4X4 Vehicle**

VIM 4x4 vehicle, model TGS 18,400 BB (4x4) with a Euro 5 engine. Engine power of 400 HP (294 kW) at 1,900 rpm. Maximum torque of 1,900 Nm at 1,000-1,400 rpm. Astronic transmission system and Tipmatic ZF 12 AS automatic gearbox. ZF hydraulic power servo assisted steering. Barkematic drum brakes and ABS system. Front and rear suspension. 220-I diesel tank.

Certifications PECAL / AQAP 2110 OHSAS 18001 ISO 14001 ISO 9001 ISO 27001



#### Combat Footwear

Operational military footwear for use in combat and assaults.

- Multi-terrain.
- Calf-length boot with lace hooks closing system.
- Manufactured by direct injection moulding.



#### Lightweight, camouflaged rain suit

Bulky and lightweight. Protection from the weather with great comfort due to its light weight and breathability. Central, water-repellent zip. Fleeced inside the collar for greater comfort. Adjustable elastic cord and elastic adjustment at the cuff. Resistance to water vapour (UNE-EN 31092), impermeability (UNE-EN 20811) and OEKOTEX certified per standard 100.



#### Fireproof Personal Protective Equipment

Personal protection garment for firefighting professionals. PPE certified as per EN ISO 11612:2008 (clothing protection against heat and flames) and UNE-EN 15614:2007 (protective clothing for forestry fire fighters). Main fabric made of "ripstop", with high mechanical strength, and special protective fabric against incandescent materials at the bottom of the legs. Fireproof rescue tape concealed at the top part of the back. Reflective strips on the front, back, sleeves and legs.



#### Flame resistant combat glove.

Flame resistant combat glove.

- Great adaptation to the hand and maximum dexterity (level 5).
- Back and between the fingers made of Nomex®, with leather reinforcement at the fingertips and reinforcement for impact protection.
- Stiff knuckle protector.
- Leather strap with a Velcro tab at the cuff.
- Thumb with reinforcement for better grip.
- Leather palm, with leather reinforcement for greater grip and flexibility.
- Abrasion-resistant fabrics with ceramic fibre.



PARAFLY, S.A.

#### PARAFLY, S.A.

Aerial systems & equipment

Uniforms & equipment

PARAFLY is a company whose capital is entirely Spanish. It was founded in 1986 and specialises in the design, development and manufacturing of various types of textile-based equipment for military applications, as well as a number of accessory mechanical, pyrotechnic and electronic systems.

Within its sector, PARAFLY is considered one of the top ten worldwide companies with the greatest technological and innovation capacity, having taken part in important national and international projects, both individually and as subcontractor. As an example, we were selected by the Pentagon as a company of scientific and technological interest, and we were selected for participation as official contractors of the Eurofighter programme.

#### **Troop Parachutes**

PARAFLY produces a complete range of training and combat parachutes for paratroopers. We have our own training and combat parachute designs, among others, as well as the respective reserve equipment. Within this activity, we can highlight that one of our own designs has been selected by the U.S. Department of Defence to take part in the FCT programme (Foreign Comparative Testing), for the ATPS project (Advanced Tactical Parachute System).



Logistics, Ancillary & Services Sector

Certifications ISO 9001 PECAL / AQAP 2110

#### **Cargo Parachutes**

In 1998, PARAFLY began manufacturing the largest range of cargo parachutes, called the G -11. This has allowed us to include the most complex processes in our production engineering for the production of these giant parachutes, thereby encompassing the entire range of manufactured parachutes, from the smallest to the largest. We currently manufacture a complete range of cargo parachutes and are supplies of NSPA-NATO.



#### **Personal Ballistic Protection**

Since 1990 our company has made great efforts to advance in this field, and in 1993 it succeeded in launching a revolutionary product on the market. With the STRATUM technology, PARAFLY was the first company, using a combination of different raw materials, to succeed in reducing the weight of a bullet-proof vest by 40 %, with the same level of protection as conventional armour. Using this kind of technology, we have been progressing within this line of development and have a wide range of products.



#### **SIVA Recovery System**

Regarding UAV recovery systems, PARAFLY has participated on the most notable Spanish projects. SIVA recovery system, ALO recovery system, ALBA recovery system and SCRA recovery system. PARAFLY reaches another milestone with these projects and achieves the world's most advanced UAV recovery systems, with a considerably reduced weight and volume, compared with other systems of the same nature.



#### **BME-330 Cargo Parachutes**

PARAFLY is the undisputed national leader and has great experience in the development, production, integration and maintenance of complex systems of parachutes and stabilisers and the complements thereof for different kinds of aircraft armament, for braking or super braking and for different types of illuminating ammunition. PARAFLY has the sufficient capacity to cover the current needs of the various armament enterprises in this sector.





#### SISTEMAS DE INTERCONEXIÓN, S.A

#### Land

Systems & equipment

#### Naval

Systems & equipment

#### Aerospace

Aerial systems & equipment

Armament and ammunition Ancillary industry & spare

Electronics, communications & ICT C4ISR; systems & equipment

Logistics, ancillary & services Ancillary industry & machinery C/ Marqués de Monteagudo, 24 28028 Madrid (Spain) Phone: +34 913610041 www.sintersa.es

SINTERSA originated in 1987. With more than 200 employees, it is currently a Tier-1 direct supplier of electrical interconnections for Airbus Defence & Space and Boeing in Spain.

SINTERSA designs, manufactures and assembles military and aeronautical harnesses and equipment, both in Madrid (3,500 m²) and Seville (2,000 m²). SINTERSA has the most important military certifications, and it forms a part of the main international aeronautical and military projects (Airbus, Boeing, GD, Navantia, Escribano, Sener, Tecnobit, Cesa, Indra, Oto Melara, CMI Defense, etc.).

SINTERSA has capabilities regarding production engineering, aeronautical assembly, EMI/
RFI shielding technology, laser wire marking and continuity and insulation testing of complete systems, in addition to crimping tools calibration and repair technology. A capacity of 260,000 hours and 5,000 m² of manufacturing space available.

Certifications UNE EN 9100 ISO 9001 PECAL / AQAP 2110

#### **Electrical Harnesses** and **Sub-Assemblies**

Design and manufacturing of electric wire harnesses and sub-assemblies, aeronautic and military control units, test benches, communication racks, lightweight cabling and fibre optic solutions for tactical deployments and the development of custom cables. Interconnection solutions for turret equipment, electronic warfare, 3D radar, missiles, military vehicles, UAVs, communications and power supplies, etc.

High-performance wiring harnesses for demanding requirements (weatherproof; temperatures from -55 °C to 200 °C; resistant to hydraulic fluids, vibrations and EMI/RFI). SINTERSA guarantees the highest quality levels and production capacity.



#### Aeronautic Installation and Electrical Integration in Military Vehicles and Aircraft

A team specialising in the electrical installation and termination of connectors on aircraft.

Aeronautical assembly of wire harnesses, supports and structural assemblies. Electrical assembly, manual continuity testing, operational testing and trials, mechanical and electrical repair work, de-installations and installations of panels and piping. Assembly on military vehicles, redistribution of equipment, design and installation of wiring, manual continuity testing.



#### **Electrical Connectors**

- Circular connectors under military specs for power supply and signals: MIL-5015, MIL-C-26482 and MIL-DTL-38999.
- Connectors for tactical and fibre optic networks (RJFIELD).
- Manufacturing within 24-48 hours.
- Custom-designed connectors, especially for resistance to high temperatures, vibrations and pressure.
- Connectors made of aluminium, stainless steel or bronze.
   Cadmium or nickel plating under RoHS specs in black zinc nickel.
- Rectangular connectors such as Arinc or M24308.
- Accessories for connectors: backshells, strain reliefs, EMI silicone connector gaskets, heatshrink boots, fibre optic contacts, twinax and quadrax contacts, cable ties, etc.



#### Cable Bundle Construction Tools

- Crimping tools for any type of contacts for connector assembly.
- Tools manufactured under military specs (M22520).
- Tool kits.
- Electrical testing machines for continuity and insulation.
   Design and manufacture of special harnesses and testing equipment.
- Special strippers for shielded military cables.
- Band-it and sealing machines for shielded backshells.
- Retention testing tools.
- Go/no-go calibration tools. SINTERSA offers tools and manuals for military harnessing processes.





#### **TOLPIN, S.A.**

Field logistics; infrastructures; others

that has been specialising in the production and marketing of wholesale and retail textile products for 40 years. It has focused its business activity on the production of light and heavy textiles, as well as the production and preparation of vinyl fabrics. We have machinery for highprecision textile manufacturing and machinery for working with PVC by high-frequency welding. We work on the production of industrial products: tanks of different capacities for storing water; awnings and tarps for army vehicles; camping equipment such

as lockers and bunks; tents with an

aluminium external structure that

are assembled in 2 minutes, 30

TOLPIN, S.A. is a company

#### **Tents**

- Modular tents with an exterior structure. TMP of 36 m<sup>2</sup> and TMP of 54 m<sup>2</sup>, made of PVC fabric, with an aluminium structure and joints. Equipped with two side and two front windows. Assembly in 3 minutes by 4 people (TMP of 36 m<sup>2</sup>) and assembly in 4 minutes by 4 people (TMP of 54 m<sup>2</sup>).
- Connecting tent for four 18-m<sup>2</sup> TMP tents. This type of tent is used to connect four tents of TMP 36 m<sup>2</sup> or of TMP 54 m<sup>2</sup> in a cross formation, thereby setting up a Brigade command post using these tents.







Services, logistic & auxiliary

Certifications PECAL / AQAP 2110 ISO 9001 ISO 14001

seconds.

# Logistics, Ancillary & Services Sector

#### **Awnings**

- Awnings for military vehicles.
- Awnings for military vehicle cabs and bodies, made of khaki canvas in accordance with regulations of the Ministry of Defence.
- Awnings for military trailers.
- Awnings for military trailer, made of camouflaged canvas.
- Awnings can be manufactured for different heights.



#### Flexible Tanks

- Flexible rectangular tank: flexible rectangular tanks for storing water, with capacities from 500 I to 25,000 I. Manufactured out of PVC fabric with IR and ADB treatment.
- Circular tank: circular tanks with capacities of 10,000, 15,000 or 20,000 I. Manufactured out of PVC fabric with IR and ADB treatment.



#### Cots

- Cots.
- Double field bunks.
- Double field bunks with a galvanised steel structure.
- Manufactured out of polyester cotton fabric.
- Triple field bunks.
- Triple field bunks manufactured out of polyester cotton fabric, with a galvanised steel structure.



#### **Field lockers**

Field locker with zippered opening and internal divisions, equipped with a tray. Galvanised steel structure.





#### UNION CASTELLANA DE ALIMENTACIÓN, S.A.

Services, logistic & auxiliary Field logistics; infrastructures; foot UCALSA is an integral management service company that operates both nationally and internationally, with special experience in difficult or conflict areas. UCALSA is in charge of both services themselves (supplies, catering, quality of life, waste removal and transport) and the infrastructures for services (design, engineering, construction, operation and maintenance). UCALSA is an agile company, with experience on big projects and in critical situations (wars, natural disasters, instability), which is why it considers risk in its operating plan. UCALSA's mission is to provide the necessary services so that customers can focus on their main activity.

#### **Field and Emergency Rations**

UCALSA is a leading company in quality and in the sales and distribution of field rations for emergency situations and humanitarian catastrophes:

- Single daily individual rations.
- Family rations.
- Multiple rations.

Customised packages according to the group/time. UCALSA produces field rations adapted to the diverse cultural conditions of the users: Western, Hindu, vegetarian, Halal (Muslim).

#### Field Rations



Logistics, Ancillary & Services Sector

Certifications ISO 9001

ISO 14001

ISO 45001

ISO 22000

ISO 28000

#### **Catering Services**

UCALSA is a leader in the catering sector and offers tailor-made solutions for specific requirements. We specialise in the integral management of specific and special catering needs, both in Spain and abroad.

Group catering services must take into account the specific features (cultural, social and local) of the group they are designed for.



#### **Home Meal Service**

UCALSA has a technical team of professionals with expertise on designing, planning and managing a wide range of services, including social- and healthcare-related services.

Its programmes are oriented at vulnerable groups and/or those in a situation of social risk: elderly people, major dependants, immigrants, patients with Alzheimer's disease, the disabled, children, etc.

Currently, UCALSA Servicios

Currently, UCALSA Servicios Sociosanitarios delivers over 4,000 meals to people every day.





#### 234

Pol. Ind. Malpica. C/ D 50016 Zaragoza (Spain) Phone: +34 976330000 www.wearealtus.es

#### YUMA, S.A.

Services, logistic & auxiliary Uniforms & equipment

Design, manufacturing and distribution of mountain and camping articles (rucksacks, sleeping bags, insulating mats, camping tents, garments, footwear and other leisure time complements) for athletes and professionals (Ministry of Defence, forestry workers, firefighters, security forces and others).

#### **Combat Rucksack**

Combat backpack with a box shape design and complete opening by zip, thereby facilitating the location and distribution of the load. Different external and internal compartments to effectively distribute the load. M.O.L.L.E. tape system for fastening pockets and other components.

#### Rucksack:

- Weight: 1.600 kg.
- Volume: 35 I.
- Dimensions: 36 x 53 x 18.5 cm.

#### Accessories:

- Integrated raincover.
- Removable inner plate.
- Lightweight, 20-I dry bag to keep delicate elements dry in case of rain.
- Detachable pockets. Total weight: 2.225 kg.





Logistics, Ancillary & Services Sector

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2120

#### Extreme Cold Bag Set: 3-in-1 Sleeping Bag

Temperatures & weight of both sleeping bags

- Weight: 2.9 kg.
- Temperatures: -6 °C / -13° L / -32°
   E (UNE EN 13537).

Internal sleeping bag and external ASD sleeping bag features:

- Alpine-type design.
- Surround head.
- Elastic cords to facilitate movements.
- Double slider zip to regulate the internal temperature and facilitate access.
- Thermal collar and flap cover zip.
- Interior pocket.
- Webbing to hang the bag.
- Removable, interchangeable head for both sleeping bags.
- Compression bag.

The bags can be used individually or together, for which they are equipped with elements that allow joining the two bags.



#### **Individual Tent**

Technical characteristics:

- Frame:
  - Composition: duraluminium.
  - Quantity: 2 lines.
- Two ventilation areas with hood.
- Front vestibule area with extender on the floor.
- Heat sealed seams.
- Interior pocket.
- Inner mesh fixed with rings.
- 4 guy ropes.
- Approximate weight, including bag: 4 kg.

#### **Extreme Cold Suit**

A set designed for extreme cold conditions. Its lightweight and thermal insulation make it ideal for moving at low temperatures that hinder movement.

The jacket has underarm ventilation that allows regulating the body temperature. It is adjusted by elastic cords in the hood and the bottom hem, and the sleeves have anti-blizzard cuffs and felt closures.

The pants have suspenders and detachable inner gaiters, and zips at the cuffs make it easier to put on boots.



#### Imperator Ice Axe

Technical ice axe for climbing, with an ergonomic, non-slip and highdensity grip. It includes a cover for the pick for safer transport and storage. The hammer zone is made of high strength steel and the ideal shape for a precise hit.

Features:

- Material: STS440 / SCM435 / AL 7075 / EPDM.
- Weight: 660 g.
- Lenath: 52 cm.
- Pick cover included.







#### AEG POWER SOLUTIONS IBÉRICA, S.A.

C/ Albert Einstein, 31 01510 Zigoitia (Alava) Phone: +34 945214110 www.aegps.es

AEG Power Solutions employs its unique expertise in power electronics to make a full service offer that goes beyond its own base of installed systems and extends to all stages of the product life cycle.

We offer power electronics to different sectors, such as oil & gas, power generation, railway, data & IT, networks and storage, energy, transportation and general industry.

Our portfolio of products includes:

- 3-phase UPS systems.
- 1-phase UPS systems.
- DC systems.
- DC telecommunications systems.
- Inverter systems.
- DC modules
- Converters and systems for renewables integration.
- Monitoring solutions.
- Batteries.

Certifications ISO 14001 ISO 45001 PECAL / AQAP 2110 ISO 9001

#### ARIETE SEGURIDAD, S.A.

C/ Industrias, 51. Pol. Ind. Urtinsa II 28923 Alcorcón (Madrid) Spain Phone: +34 916431214 www.arieteseguridad.com

A company within the security industry that offers a wide range of services related to security and the protection of goods, establishments, shows, contests and conventions, where the protection of people is always the priority. Activities are carried out everywhere in Spain, at both private companies and public bodies and in a number of sectors, including industrial, commercial, airports, residential, health, defence, culture, logistics, offices and events. Our services are focused on providing active monitoring services of a static nature (critical security points) or dynamic nature (performing rounds), including security patrols, control centre management, airport services, scanner access control, etc.

Certifications ISO 14001 ISO 9001 OHSAS 18001



#### BEYOND SOLUCIONES Y SERVICIOS, S.L.

C/ Oquendo, 23, esc. 3ª, 4ª planta 28006 Madrid (Spain) Phone: +34 918286673 www.beyondss.com

BeSS is a young and dynamic company that was founded in 2013. It is engaged in providing and integrating solutions for the supply chain and information systems, predominantly in the area of defence, security and aerospace. It also manages public and private tenders in this market. BeSS therefore relies on a team with extensive and proven experience in the design and execution of solutions in this field. Our strategic purpose is to provide integrated solutions for the supply chains of our customers and partners, in addition to their information systems, where we stand out. We consider global service to be a key element in the logistics market, which is why BeSS builds its solutions by including the best partners, thereby creating added value for our customers and ensuring a long-term relationship.

Certifications

ISO 27001

ISO 9001

ISO 14001

**OHSAS 18001** 



#### **BLACK BULL LOGISTICS, S.L.**

C/ Albert Einstein, s/n, edificio Insur, 1ª planta 41092 Sevilla (Spain) Phone: +34 955225169 http://www.blackbull-group.com

Black Bull is a company whose corporate purpose is providing comprehensive foreign trade advice; advice for international trade (import-export); international trade consulting; international sales and purchasing management; the representation of both national and international companies in Spain and abroad; integral logistics management; the representation of public bodies in both Spain and abroad; intermediation in foreign trade services; services in general; logistic services and goods and equipment.

Certifications ISO 14001 ISO 9001



#### BUILDAIR INGENIERÍA Y ARQUITECTURA, S.A.

C/Horta, 6 08970 Molins de Rei (Barcelona) Spain Phone: +34 933687772 www.buildair.com

BUILDAIR is a company with 15 years of experience in the design, manufacturing and maintenance of large and inflatable portable structures with several applications: hangars for the maintenance of aircraft, helicopters and vehicles fleets; temporary warehousing; field hospitals; rapid deployment shelters, etc. Their main features are their large dimensions (up to 75-m wide and any length), complete structural stability, complete portability (minimum weight and packaging volume), easy logistics, simple anchoring systems and short times for delivery, set-up and relocation. BUILDAIR's turn-key solutions are customised for every customer's requirements and are already being used by major international companies (Airbus, Lufthansa, etc.).



#### **CALZADOS ROBUSTA, S.L.**

Ctra. de Prejano, 72 26580 Arnedo (Logroño) Spain Phone: +34 941385411 www.robusta.es

Established in 2000, Calzados Robusta, S.L. excels in the manufacturing of safety and occupational footwear. A young firm based in La Rioja (Spain) and constantly evolving, Robusta has become a national and international benchmark with over 300 items in its catalogue, specialising in the industrial, food, forestry, security, healthcare and defence sectors. This evolution is due to the unique connection between our customers and Robusta's working philosophy, which is based on caring 24/7 customer service, a rigorous production and product quality plan and providing tailored solutions to meet the needs of every customer.



#### **CARTAGO MARPOL. S.L.**

C/ Helsinki, 107-108, Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Spain Phone: +34 968125181 www.cartagomarpol.com

- Removal, cleaning and management of waste from vessels and inland facilities.
- Port cleaning and sea decontamination.
- Industrial cleaning, including sewage and septic tanks.
- Maritime transport.
- Ship provisioning.



#### COMPAÑÍA ELABORADORA DE CAUCHO COECA, S.A.

C/ Concejo, 4 01013 Vitoria-Gasteiz (Álava) Phone: +34 945267300 www.coeca.com

Design, manufacturing and supply of technical rubber and silicone parts.

COECA's involvement in all its processes –from the development of materials, through the tooling design, to the first samples delivery, and finally, to establishing the production line– has ensured our great level of success in all our projects.

Certifications PECAL / AQAP 2120 ISO 14001 ISO 9001 OHSAS 18001

Certifications ISO 45001 ISO 14001 ISO 9001 Certifications ISO 9001 UNE EN 9100 PECAL / AQAP 2110



#### COMPAÑÍA ESPAÑOLA DE PETROLEOS, S.A.U.

Paseo de la Castellana, 259 A, Torre CEPSA 28046 Madrid (Spain) Phone: +34 913376000 www.cepsa.com

Cepsa (Compañía Española de Petróleos, S.A.U.) is a global energy company operating in every stage of the oil value chain, with more than 10,000 professionals on staff.

It is engaged in petroleum and natural gas exploration and production activities, including the refining, transportation and sale of petroleum products, petrochemicals, gas and power.

Cepsa is Spain's fourth-largest industrial group in terms of turnover, and it was incorporated over 80 years ago. Thanks to its flexibility and ability to adapt, Cepsa has become a benchmark company in its sector in Spain. It also is also present in Algeria, Morocco, Brazil, Canada, Colombia, Panama, Peru, Holland, Belgium, Great Britain, Italy and Portugal.



#### CONSTRUCCIONES FRANCISCO ROCA SÁNCHEZ, S.L.

C/ Huerto, 1 30369 La Unión (Murcia) Spain Phone: +34 968548557 www.construccionesfranciscoroca.com

Construcciones Francisco Roca Sanchez was founded in Roche (La Union) in 1972. It operates in the construction sector, for which it has the appropriate staff and machinery to meet the technical specifications required by its customers.

The company's services are primarily aimed at companies in the marine sector, as well as governments, construction companies and private customers.

Its main business activities are the following:

- Outfitting of ships and boats.
- Outfitting of buildings.
- Installation of construction materials and equipment.



#### COTECO INFORMÁTICA INTERNACIONAL, S.L.

C/ Cristóbal Bordiú, 35, oficinas 406-408 28003 Madrid (Spain) Phone: +34 915347982 www.cotecoint.com

Specialists in IT consulting, talent management, TV & video and satellite transmission and broadcasting. Video and news production services. Specialised in international defence and security environments.



#### **EASA NAVAL, S.L.**

C/ Oso, 7

11405 Jerez de la Frontera (Cádiz) Spain Phone: +34 956307450 www.easanaval.com

Easa Naval has extensive experience in supplying, repairing and maintaining rescue and survival equipment.

We provide comprehensive maintenance for life rafts and life vests, breathing equipment (for both use on the surface and underwater), flight suits for pilots and flight crews, dry suits amphibious units, etc.

Our objective is to offer our customers the possibility of having their survival and rescue equipment always ready to use, at an affordable cost and according to high quality standards.

Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 OHSAS 18001

Certifications ISO 45001 ISO 14001 ISO 9001

Certifications ISO 9001 ISO 1400



#### **ELECTRO RUIZ. S.A.**

C/ Electricidad, 19 28918 Leganés (Madrid) Spain Phone: +34 916191204 www.electroruiz.com

Electro Ruiz began its business activity in 1985 as an electrical installations company focused on the industrial and commercial sector. Since then, our evolution has been constant, therefore adapting to new technologies and expanding our business activities.

Currently, we are especially engaged in the design, installation and maintenance of highand low-voltage electrical, fire protection and telecommunications installations.

We seek to be an organisation that best satisfies the needs and expectations of its customers, while always complying with legal and regulatory requirements on the environment and other requirements related to our business.



#### **ELECTROCANTERAS. S.L.**

C/ Fósforo, parc. 105 30369 Cartagena (Murcia) Spain Phone: +34 968553233 www.electrocanteras.com

A well-established company in the assembly and maintenance of low- and high-voltage electrical installations, electronics, firefighting, air conditioning and sanitary hot water systems, in addition to telephony, intrusion systems and installations of all kinds on warships and construction.

Upkeep and maintenance of buildings, in addition to paving, maintenance and mechanical installations in general in the industrial and naval sectors.



#### ELECTROMECÁNICAS DEL LEVANTE, S.L.

C/ Berlín, nave 1B, parc. B2, Pol. Ind. Cabezo Beaza

30353 Cartagena (Murcia) Spain Phone: +34 968528011 www.emlevante.es

A company specialised in boilermaking, mechanical, hydraulic, pneumatic and habitability work on all kinds of ships.



#### **EQUIMODAL, S.L.**

Pol. Malpica, C/E 12 50016 Zaragoza (Spain) Phone: +34 976465131 www.equimodal.com

Equimodal is a company that develops and manufactures containers, swap bodies and containerised solutions.

In 2006, Equimodal obtained the ISO 17025 certificate as an ENAC-accredited laboratory. This recognised it as one of the five accredited laboratories in Europe and the only one in Spain. Since 2010, Equimodal has certified over 100 different container models that meet the most demanding quality standards. In its continued commitment to offer a quality product, Equimodal has obtained the ISO 14001, ISO 3834 and OHSAS 18001 certifications, and it is the only container manufacturer in Europe with this level of quality. Over 20 years of experience and more than 20,000 units produced.

Certifications ISO 14001 ISO 9001 Certifications ISO 9001 ISO 14001 ISO 45001 Certifications ISO 9001 ISO 14001 ISO 45001 Certifications ISO 9001 ISO 17025 ISO 3834 ISO 14001 OHSAS 18001



# ESM: INSTITUTO DE INVESTIGACIÓN EN SEGURIDAD Y FACTORES HUMANOS, S.L.

C/ Jose Mª Martínez Cachero, 12, Bajo 33013 Oviedo (Asturias) Spain Phone: +34 985235854 www.esm.es

The ESM Instituto de Investigación en Seguridad y Factores Humanos was founded in 1988 with the intention of seeking solutions that reduce risk in industry and transport (civil and defence).

It is engaged mainly in research activities on applying new methodologies for risk analysis, the creation of innovative control systems, the production of technology tools, the development of virtual learning and simulation environments for training operators on critical situations.

The ESM also participates on research activities in Europe, including projects that specialise in the human aspects of systems (HMI) in the fields of mining, steel, transport, chemicals and defence.



#### **EULEN SEGURIDAD. S.A.**

C/ Gobelas, 25-27 28023 Madrid (Spain) Phone: +34 916310800 www.eulen.com

As the oldest company in our field, we have been serving our customers for over 40 years, while continuing to be innovative, flexible and quick to adapt to new risks and remaining committed to excellence in the provision of services. We develop activities oriented towards assuring the security of organisations under the paradigm of the convergence of security. These services are provided under the concept of integration, therefore contemplating security as another business process. Services: security consultancy; surveillance; security systems; intelligence; cybersecurity; integral security control centre; critical infrastructures protection; airport, maritime and itinerant security; and remote video surveillance



#### **EXIDE TECHNOLOGIES, S.L.U.**

Ctra. Nacional II, km 41,8 19200 Azuqueca de Henares (Guadalajara) Spain Phone: +34 949360007 www.exide.com

Exide Technologies is one of the world's main producers of starter batteries for vehicles and of stationary and traction batteries, in addition to batteries for submarines.



#### **FACET BOX, S.L.**

C/ Santiago Estévez, 27 28019 Madrid (Spain) Phone: +34 914727114 www.facetbox.com

Facet Box is a 100% Spanish company, engaged in the design and manufacture of flight cases since 1992. We are currently one of the main Spanish companies in the sector, and our customers include a large number of Ministry of Defence organisations, in addition to the main companies operating in Spain in the telecommunications, audiovisual, aeronautical and armament sectors.

Certifications ISO 22301 ISO 14001 ISO 27001 ISO 9001 OHSAS 18001 Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001 ISO 16949

Certifications ISO 9001 Certifications ISO 9001



#### FAL CALZADOS DE SEGURIDAD, S.A.

Avda. de Logroño, 21 bis 26580 Arnedo (Logroño) Spain Phone: +34 941380800 www.falseguridad.es

A manufacturer of footwear for professional use: army, police, firefighting and personal protective equipment.

100% made in Spain. Partners: Gore-Tex®,
Vibram®, Boa®, 3M®, etc.

We have a general catalogue and also adapt our manufacturing systems and quality standards to our customers' needs, for which we provide our know-how and R&D.

Currently the suppliers of various armies, police forces and firefighting corps throughout the world (America, Europe, Africa, Asia and Middle East), including the Spanish Army and Air Force.



#### FEDUR. S.A.

C/ Brazal Almontilla, 4 50410 Cuarte de Huerva (Zaragoza) Spain Phone: +34 976505556 www.fedur.com

Manufacturing of personal defence material: bullet-proof, anti-fragment, knife-proof and riot vests; police and military vests; helmets; shields; truncheons and ballistic plates.



#### FRIMARTE, S.L.

Pol. Ind. Espíritu Santo. C/ Daimler, 30 15650 Cambre (A Coruña) Spain Phone: +34 981649800 www.frimarte.com

Frimarte is a company that specialises in naval and industrial refrigeration and air conditioning systems. Since its beginning, it has developed all projects while adapting to meet customer's needs, therefore incorporating top-quality and innovative solutions in our refrigeration systems. Our skilled technicians attend specialised courses and exhibitions in order to constantly update their knowledge of the refrigeration industry. Frimarte focuses on providing our customers with custom solutions that meet their needs, from technical engineering advice to the supply, assembly, testing and start-up of and maintenance for any type of refrigeration system.



#### FRÍO CLIMA VALENTÍN, S.L.

C/ Banderas, 6 11510 Puerto Real (Cádiz) Spain Phone: +34 956883426 www.frioclimavalentin.com

Our company is engaged in the supply, installation, maintenance and repair of machines for hotels and restaurants, in addition to industrial and naval air conditioning, refrigeration and freezing. We supply electrical materials, as well as assemble, maintain and repair low-voltage electrical installations. Our installations are located in the area of Cádiz (Spain).

Certifications PECAL / AQAP 2110 ISO 14001 ISO 9001 Certifications PECAL / AQAP 2110 ISO 14001 ISO 9001 Certifications ISO 9001 ISO 14001 OHSAS 18001 Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 OHSAS 18001









#### **GAPTEC 2011, S.L.**

C/ Balmes, 226, pral. 2° 08006 Barcelona (Spain) Phone: +34 972445072 www.gaptek.eu

GAPTEK specialises in the construction of rapid-deployment, aluminium buildings, such as hangars, unique structures with large spans and modular buildings.

We have various product lines suited for different environments and needs. We have extensive experience in design, assembly and construction, always with the objective of reducing costs and implementation times. We have worked with several NATO armies and with government agencies, NGOs and private companies, including the Spanish Ministry of Defence, the U.S. Department of Defence, Airbus Defence and Space and Doctors Without Borders. Our products are present in over 20 countries on 6 continents, including Antarctica.

#### GLR SERVICIOS Y SISTEMAS CONTRA INCENDIOS, S.L.

C/ Almacén de Hierros, parc. 61 46520 Sagunto (Valencia) Spain Phone: +34 962699015 www.dlrservices.es

GLR Services is a leader in the Spanish market, whose main objective is to serve its customers by providing management solutions, thereby ensuring that they achieve their goals. GLR Services has a multidisciplinary team of professionals dedicated to providing its customers with a comprehensive range of products and services from the company's different business lines:

- Naval (marine).
- Fire and safety.
- Environmental management.
- Distributor of industrial technical gases (Linde).

#### **GUARNICIONERÍA ROAL, S.A.**

C/ Arganzuela, 10 28005 Madrid (Spain) Phone: +34 913669611 www.roal.com

Manufacturing of leather and canvas articles, including military, police and professional equipment. Marketing of leather and canvas articles, gunsmithing articles, work clothes and accessories, emblems, badges, personal protective equipment, sports materials, tanned goods and shoes.

#### HISPAMAST, S.L.

C/ Estaño, 30 28510 Campo Real (Madrid) Spain Phone: +34 918733733 www.hispamast.com

Hispamast is a manufacturer of telescopic masts for the military sector, specialising in lifting loads, such as HF antennas, long-range cameras, lighting, jammers, radioelectric spectrum analysis antennas, laser pointers, meteorological stations or any system that requires height.

In addition to manufacturing, we facilitate technological and engineering cooperation for the main system integrators for the complete development of different vehicles and platforms. We work with the main manufacturers of military vehicles worldwide and almost all NATO armies.

Hispamast proposes solutions for the integration of towers for lifting equipment in any type of situation: vehicles on the move, static transmission systems, platforms with laser pointers and cameras.

Certifications ISO 14001

ISO 9001 ISO 27001

ISO 45001

Certifications ISO 9001 SO 14001 Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110

Certifications ISO 9001



#### **IBER PRECIS. S.L.**

Pol. Pignatelli, 17 50410 Cuarte de Huerva (Zaragoza) Spain Phone: +34 976503727 www.iberprecis.com

lberprecis: quality machining. We subcontract, assemble, verify and certify with the objective of producing parts and assemblies for original industrial equipment.

Defence Industry:

- Manufacturing of finished parts for vehicles.
- Manufacturing of parts for ammunition. Aeronautics Industry:
- Flight parts.

Lifting Industry:

- Safety brakes.

Food Industry:

- Parts and assemblies for fillers and labellers. Capacities of Iberprecis:
- Machining: maximum part of 50 kg, measuring 650 mm in length and 250 mm in diameter.
- Assembly: maximum of 250 kg and 2 metres in length.
- Our own metrology lab.
- Subcontracting department (processes and treatments).
- Raw materials and cast-iron purchasing department (semi-processed).



#### INDUSTRIAL MATRICERA PALENTINA, S.L.U.

Ctra. Palencia Magaz, km 2,5 34190 Villamuriel de Cerrato (Palencia) Spain Phone: +34 979165048 www.inmapa.com

Design, manufacturing, assembly and start-up of and technical assistance for turnkey projects of equipment, tooling, industrial facilities, special machinery and prototypes.

Fabrication and welding of large structures and machining in general.

Sectors in which the company is engaged: aeronautics, automotive, tyre manufacturing, naval, railway, defence, energy, etc.
Welding of railway vehicles and components according to EN 15085-2.

Officially approved level II inspectors in magnetic particles, penetrant inspection and visual inspection in accordance with UNE-EN 473.

NACE level 1 coating inspectors.



#### **INDUSTRIAL SEDÓ, S.L.**

C/ Avenir, 39 - 41, esc. izq. entlo. 4<sup>a</sup> 08021 Barcelona (Spain) Phone: +34 977655007 www.industrialsedo.com

Manufacturer of military technical fabrics, camouflage nets, field tents, truck tarps, seat canvas and material protection canvases. References: gamma-2 IR khaki, truck tarpaulins 824, tent canvas 884, seat canvas 826, NATO IR gamma-0 green tent canvas.

#### **ABENGOA**

#### INSTALACIONES INABENSA, S.A.U.

Ctra. de la Esclusa, s/n. Pol. Ind. Torrecuellar 41011 Sevilla (Spain) Phone: +34 954983500 www.abengoa.com

Inabensa Abengoa (MCE: ABG.B/P SM / NASDAQ: ABGB) applies innovative technology solutions for sustainable development in the energy and environment sectors, in which it generates electricity from renewable resources, transforms biomass into biofuels and produces drinking water from seawater.

Inabensa Abengoa designs and manufactures equipment such as command and control consoles, interconnection harnesses, control and interface boxes, test benches, EGSE and on-board electronics, in addition to electrical rooms and modular units with leak-proof enclosures, therefore integrating and interconnecting all types of units: low-voltage panels, motor control centres, medium-voltage cabinets, power panels, computer equipment, batteries, transformers, etc.

Certifications ISO 9001 UNE EN 9100 Certifications ISO 9001 PECAL / AQAP 2110 Certifications ISO 14001 ISO 9001 OHSAS 18001 PECAL / AQAP 2110



# INTEGRA INTERNATIONAL FREIGHT & LOGISTICS NETWORK SPAIN, S.R.L.

C/ Tierra de Barros, 2 28220 Coslada (Madrid) Spain Phone: +34 911888898 www.integra-international.es

Integra International is a 100% Spanishowned logistics operator, with an international outlook and specialising in the development of integrated logistics solutions with any level of complexity. It is an innovative, customeroriented company with a highly qualified team, led by professionals with over 25 years of experience and in-depth knowledge of the logistics sector.

With offices in several of the main Spanish airports and ports, both Integra International and its customers and partners have broad geographic coverage in strategic markets all over the world.

Moreover, Integra International has all the necessary security clearances for responding to the logistics needs of the defence industry.



#### JOSÉ MIGUEL POVEDA, S.A.

C/ Molí Nou, s/n. Pol. Ind. Riodel 03110 Mutxamel (Alicante) Spain Phone: +34 965657135 www.jomipsa.es

For the last 30 years, Jomipsa has been leading the production of food rations and the provision of emergency aid products to the public sector and humanitarian aid organisations all over the world.

A quick response in emergencies, tailored attention to our customers' needs and a flexible organisation are the personal trademark of our experienced team of people.



#### LORPELAND, S.L.

Ctra. General, s/n 31760 Etxalar (Navarra) Spain Phone: +34 948635384 www.lorpen.com

Production and supply of technical socks and first laver sport clothes.



#### M. TORRES, DISEÑOS INDUSTRIALES, S.A.U.

Ctra. Huesca, km 9 31119 Noáin (Valle de Elorz)/Noáin (Elortzibar) (Navarra) Spain Phone: +34 948317811

Phone: +34 94831781 www.mtorres.es

MTorres is an industrial group that is qualified in advanced technologies in order to develop highly complex, innovative solutions for the automation of industrial processes in the aerospace and converting sectors. The aeronautics division is engaged in the design, manufacturing and installation of special machines and tools for the manufacturing of aerospace components, as well as tooling and assembly systems for those machines and tools. MTorres's products cover the entire production process, from the manufacturing of individual components to assembly of the final product, in metal and composite materials. The company's products are present in over 70 countries, with more than 620 customers. With over 700 workers engaged in RDI activities at centres in Navarra, Murcia, Madrid, US, Germany and Brazil, the group reinvests 10% of its turnover in R&D activities.

Certifications ISO 14001 OHSAS 18001 UNE EN 9100 ISO 9001

Certifications ISO 9001 Certifications ISO 14001 ISO 22000 ISO 9001 Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110



#### MANTENIMIENTO Y SERVICIOS TECMAN, S.L.

Ctra. de Cedeira, 209 15570 Narón (A Coruña) Spain Phone: +34 981397283 www.tecman.com.es

Tecman is a company specialising in the maintenance of equipment and facilities and in industrial repairs, assembly and supplies.

Tecman's strengths are its highly skilled human resources, the availability of modern technical resources for providing an efficient and reliable service and a policy oriented at customer satisfaction.

Tecman offers specialised services in the industrial sector and in non-renewable and renewable energies (operation and maintenance of wind farms), with extensive experience in the naval sector, both civil and military, including manufacturing, assembly and maintenance.

Tecman has implemented an integrated management system based on the following standards: UNE-EN 9001, UNE-EN ISO 14001 and OHSAS1801.



#### MANUFACTURAS AURA. S.A.

C/ Electricistas, 12 28670 Villaviciosa de Odón (Madrid) Spain Phone: +34 916165878 www.manufacturasaura.com

Manufacturas Aura is a company in the service sector, and it is 100% Spanish owned. We have over 20 years of experience and presence in various markets. We offer products and services that respond to the needs of our customers in both the public and private sectors. Our main business activity is the manufacturing and distribution of canvas for military vehicles and field tents, in addition to military gear, uniforms in general and accessories. We also handle all areas related to health, civil protection, mobile units, sports materials, uniforms, personal protection, climbing equipment and emergency materials.

We have another business line in the private sector related to department stores.



#### **MASTER SECURITY 3000, S.L.**

Pol. Ind. Saprelorca, Avda. Rio Jucar, parc. Ñ1 30817 Lorca (Murcia) Spain Phone: +34 968476318 www.gruposecurity.es

A company engaged in private security, for which it uses people to provide a surveillance and protection service for people, property and real estate, establishments, shows, contests or conventions, as well as other properties.

- The installation and maintenance of systems, devices and security devices against theft and intrusion.
- Planning of and advising on the security activities set forth in the private security law, including the installation and maintenance of fire systems.
- The installation and maintenance of access control systems.



#### MECÁNICA DE PRECISIÓN TEJEDOR, S.A.

Pol. Ind. La Estación C/ Milanos, 11 28320 Pinto (Madrid) Spain Phone: +34 916913000 www.mptejedor.com

Mecánica de Precisión Tejedor provides the full range of CNC machining, including machine-welded assemblies and the assembly thereof for the military industry.

- Ground platforms: different elements for turrets, night-time vision equipment and lifting systems for tanks and other vehicles.
- Ammunition: it participates in various missile programmes and produces elements for bombs, Howitzers and grenades of various calibres
- Navy: manufacturing of the mechanical parts of periscopes (Percosub programme).
- Aeronautics: it is involved in the manufacturing of various elements for drones.

Certifications ISO 14001 ISO 9001 OHSAS 18001 ISO 3834

Certifications ISO 9001 ISO 14001 PECAL / AQAP 2110

Certifications ISO 14001 ISO 9001 Certifications ISO 9001 PECAL / AQAP 2110



#### MECÁNICAS BOLEA, S.A.

Pol. Ind. Cabezo Beaza, Avda. Bruselas, Parc. R-101 30353 Cartagena (Murcia) Spain Phone: +34 968324220 www.mecanicasbolea.com

Mecánicas Bolea, a firm with over 35 years of experience in the repair, maintenance and manufacturing of equipment, has the Spanish Ministry of Defence among its regular customers, with projects on ships of the Spanish Navy and of the NATO fleet at the Military Arsenal of Cartagena, It has manufactured and assembled equipment on the S-70 and S-80 submarines for Navantia, and it has collaborated with Navantia and DCN on the manufacturing of the Scorpène submarines. Mecánicas Bolea has also worked for the Spanish Air Force on its various installations, services and fleets, including the manufacturing of some parts and equipment for Airbus Helicopters and the F-18 aircraft. To do so, it holds certifications such as the PECAL 2310. ISO 14001, ISO 9100, ISO 9001, ISO 3834-2. OHSAS 18001, U & R Stamps, H1 MODULE for pressure vessels, etc. It is second-tier contractor in the design and manufacturing of tooling with Airbus. To perform these jobs, it has the required certifications, such as PECAL, ISOs, U & R Stamps, MODULE H1 for pressure vessels, etc.

Certifications ISO 45001, ISO 3834, ISO 14001, ISO 9001 PECAL / AQAP 2110, UNE EN 9100



#### MECANIZADOS, S.A.

Pol. Ind. Juan Carlos I, C/ La Granja, 28 46440 Valencia (Spain) Phone: +34 961767200 www.mecaniza.com

Design, manufacturing, repair and assembly of special equipment and tools. Manufacture of equipment for the detection of mines and other components, with hyperspectral imaging and analysis in real time, in addition to the development of modular, airborne water treatment plants.



### DOCUMENTARIAS, S.L. C/ Marie Curie, 5-7, Edif. Alfa, 7ª planta, 28521 Rivas-Vaciamadrid (Madrid) Spain

28521 Rivas-Vaciamadrid (Madrid) Spain Phone: +34 915522161 www.menpro.es

MENPRO is focused in representing foreign firms with pioneering products and/or technologies in the defence field, as well as providing integration and technical support services through our Engineering Department. Since 1995, the firm has been engaged in offering high performance, high added value and high-quality products to our armed forces and law enforcement agencies, as well as providing all the necessary technical support in order to assure full performance and operability on time and at affordable costs.

As for our suppliers, MENPRO offers a unique platform, with in-depth knowledge in this field, based on which it markets their products and/ or technologies.



#### **MEYRIN, S.L.**

C/ Aluminio, s/n esquina C/ Bismuto, Pol. Ind. Los Camachos 30369 Cartagena (Murcia) Spain

Phone: +34 968506305 www.talleresrenain.com

Our business activity is divided into three sectors:

- Machinery: A section engaged in the machining and construction of precision parts for small machinery and heavy machinery, including lathes, milling machines, boring machines, brushes, grinding machines, radial drills, mortising machines, etc.
- Adjustment: A section engaged in repairs.
   Assembly and commissioning of pumps,
   reducers, reciprocating rotary compressors,
   steam turbines, motor pumps, diesel engines,
   auxiliary machines, etc.
- Boilermaking: A section engaged in medium and heavy boilermaking; piping; equipment structures; sheet metal bending, winding and shearing; TIG, continuous wire, electric and autogenous welding; plasma cutting; welding of materials such as grey cast iron, copper, bronze, stainless and special materials.

Certifications ISO 9001 UNE EN 9100 ISO 14001

Certifications ISO 9001 Certifications ISO 9001 ISO 14001 ISO 45001



#### PANARCOS INTERNACIONAL, S.L.U.

Avda. Toscana, 50 28420 Galapagar (Madrid) Spain Phone: +34 918591736 www.panarcos.com

Since 1987 we have been a freight forwarder offering door-to-door service from pick-up at the source to final delivery, using all possible routes (air, sea, land and rail), for both imports and exports and including customs management, insurance, warehousing and distribution. The company also specialises in transport from the USA and ASIA, where we have our own consolidated business. We have accreditations by the IATA, FETEIA, the FDA, AMCHAMSPAIN, AECOC and GS1, which are needed for all procedures and requirements to obtain the result of a job well done.



#### PAPÍ TRANSITOS, S.L.

Pol. Ind. Atalayas C/ Rublo, Parc. R-61 03114 Alicante (Spain) Phone: +34 965207144 www.papitransitos.com

Papí Tránsitos is a freight forwarder providing global logistics and worldwide transport solutions for IMO and military goods, with over 45 years of experience and ISO 9001 certification. Our company is registered with the Directorate General of Military Equipment and Materials of the Ministry of Defence, and we offer road freight, sea freight and air freight services for these type of goods, therefore coordinating all the logistics from the factory to the final destination and assuring that all legal procedures are fulfilled regarding escorts, transit permits, port security, etc. For these matters, we have in-house security advisers who analyse and study each shipment to guarantee the most cost-effective solution for

Our network of agents around the world are specialised in the movement of these type of goods, which allows us to offer complete reliability upon arrival at the destination.



#### PYCSECA SEGURIDAD, S.A.

C/ Isabel Colbrand, 10-12, 5ª planta, puerta 145 28050 Madrid (Spain) Phone: +34 913589777

www.pycseca.com

A security company officially approved by the Ministry for Home Affairs for the following activities:

- Planning and advising of security activities.
- Installation and maintenance of security systems.
- Central alarm station.
- Protection of persons.
- Surveillance.

Coverage throughout the entire Spanish territory.



#### REFRIGERACIÓN GUILLÉN, S.L.

C/ Ramón y Cajal, 35 30205 Cartagena (Murcia) Spain Phone: +34 968517413 www.refrigeracionguillen.com

A company with over 25 years of experience engaged in the sale, installation and maintenance of air conditioning, cooling and industrial refrigeration equipment, both naval and commercial. Established in Cartagena but with extensive mobility that allows us to work both in Spain and abroad

Certifications ISO 9001 Certifications ISO 14001 ISO 9001 Certifications ISO 14001 ISO 9001 ISO 45001



#### SAGRES, S.L.

Segunda Travesía Padre Crespo, 5 36800 Redondela (Pontevedra) Spain Phone: +34 986400558 www.partenon.net

Founded in 1958, Sagres-Partenon is a company engaged in the production of technical clothing for security forces. As a result of using the most modern technologies, Partenon's garments are notable for offering the highest performance regarding both technical parameters and aspects related to design and comfort. All of above, together with a wide range of services, makes Partenon's garments a guarantee of quality.

Our competitive advantage is based on our culture of proximity and commitment to customers, thereby generating innovation and creativity. Our products and services are backed by the company's values, which focus on customer orientation, innovation, renewal, teamwork, trust, transparency, service and quality.



#### SAIMA SEGURIDAD, S.A.

Avda. Valgrande, 12, naves 16-17 28108 Alcobendas (Madrid) Spain Phone: +34 916616892 www.saimaseguridad.com

Saima Seguridad is a Spanish company engaged in providing comprehensive high-tech solutions for protecting individuals and their assets according to the market's needs. Its specialised and exclusive activity within the security sector is its dedication to electronic technology, which makes its efforts more effective.

Experience of over 25 years in various sectors such as banking, critical infrastructures, defence, etc.

We provide solutions and technical knowledge for resolving all of our customers' needs, thereby obtaining the expected outcomes. Comprehensive solutions for the implementation of new systems and maintenance for those that already exist.



#### SECURITAS SEGURIDAD ESPAÑA. S.A.

C/ Entrepeñas, 27 28042 Madrid (Spain) Phone: +34 912776000 www.securitas.es

A global leader in security solutions, Securitas is consolidated as one of the leading companies in the private security sector in Spain.

Specialising in security solutions, Securitas Seguridad España currently has 18,000 employees and 50 branches throughout Spain.



#### TALLERES MATEU SUCESORES, S.L.

Avgda. Comarques del País Valencià, 43 46930 Quart de Poblet (Valencia) Spain Phone: +34 961548541 www.talleresmateu.com

Talleres Mateu Sucesores is a family business that was founded in 1962.

We are a company in the metalworking sector, engaged in the manufacture of industrial boiler manufacturing using any type of steel and alloys, in addition to mechanical constructions, machining, engineering, design and development.

Talleres Mateu's commitment to quality covers all levels of the company, such that the entire collective effort is directed at satisfying the customer's requirements.

Certifications ISO 14001 ISO 27001 ISO 9001 PECAL / AQAP 2110 Certifications ISO 9001 ISO 14001 ISO 27001 ISO 22301 OHSAS 18001

Certifications ISO 14001 ISO 9001 ISO 45001 ISO 27001

Certifications ISO 9001



#### **TECHCO SEGURIDAD, S.L.U.**

C/ Barbadillo, 7 28042 Madrid (Spain) Phone: +34 913127777 http://www.techcosecurity.com/

The Company's purpose is to provide and develop the following services and activities:

- Security and protection for goods and establishments.
- Installation and maintenance of security devices and systems.
- Operation of centres for the reception, verification and transmission of alarm signals and the consequent communication thereof to state security forces and agencies.
- Planning and advising on the security activities considered in Law 23/1992 of 30
   July, on Private Security, and/or subsequent laws that could modify or repeal this law.
- Installation and maintenance of fire protections systems.



#### **TEXTIL SANTANDERINA. S.A.**

Avda. Textil Santanderina, s/n. 39500 Cabezón de la Sal (Cantabria) Spain Phone: +34 942700125 www.techs.es

Founded in 1923, Textil Santanderina is a vertically integrated textile company, therefore including processes ranging from the raw material to the finished garment: spinning, weaving, dyeing, printing, finishing and manufacturing of the finished garment. Its products are designed for various sectors, such as fashion, the automotive industry and technical textiles (PPE), as well as protection for special units, such as armed forces and the police.

Its high production capacity and its completely equipped laboratories, together with the diversity of the fibres used, make the company a benchmark in the world of textile manufacturers.

Both the company and its products are distinguished by a wide range of certificates, thereby ensuring the highest quality and service for all its items.

With a global presence, Textil Santanderina offers innovative solutions for all types of users.



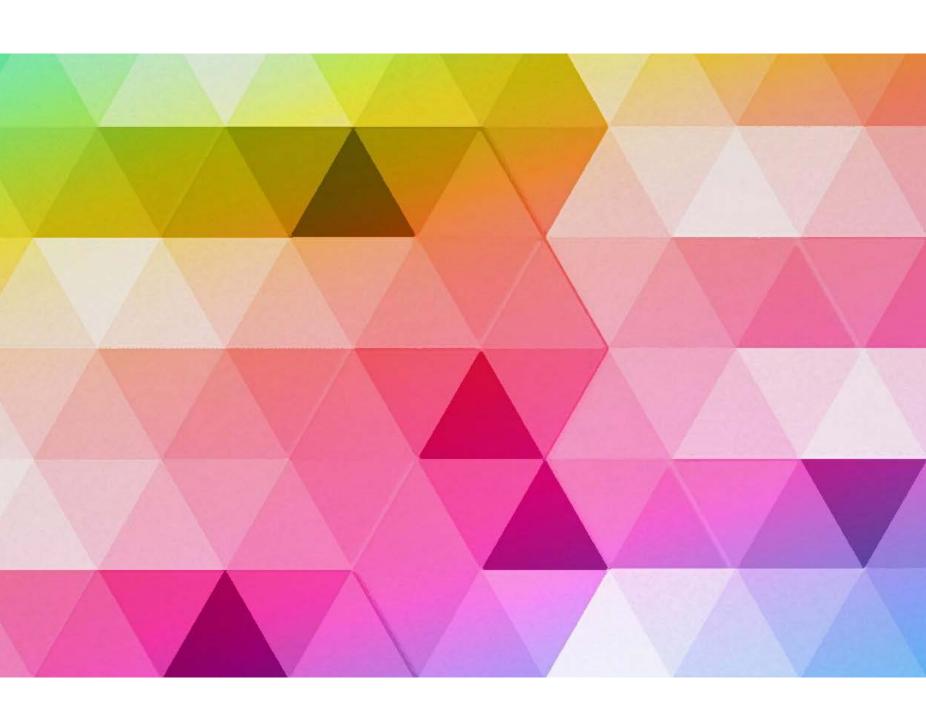
# TYCO INTEGRATED FIRE AND SECURITY CORPORATION SERVICIOS, S.A.

Ctra. de la Coruña, km 23,5 28290 Las Rozas de Madrid (Spain) Phone: +34 902011055

www.tyco.es

Tyco Integrated Fire and Security, a Tyco company, designs, installs and maintains fire protection systems and electronic security systems for residential, business and government customers. The portfolio of Tyco Integrated Fire and Security includes anti-intrusion alarms, video surveillance, access control, electronic protection of articles, radio identification, fire detection, integrated solutions and supervision. The solutions of Tyco Integrated Fire and Security are used to help protect people, assets and property.

Certifications ISO 14001 ISO 9001 ISO 27001 Certifications ISO 14001 ISO 9001 PECAL / AQAP 2110 Certifications ISO 14001 ISO 9001 OHSAS 18001





# Consulting & Engineerting Sector



C/ Martinez Villegas, 52 28027 Madrid (Spain) Phone: +34 916496153 www.akka-technologies.com

#### **AKKA TECHNOLOGIES SPAIN, S.L.U.**

#### Land

Systems & equipment; maintenance & life cycle support; auxiliary industry & spares

#### Naval

Systems & equipment; underwater systems; maintenance & life cycle support; auxiliary industry & spares

#### Aerospace

RPAS; aerial systems & equipment; simulation; satellites; satellite services; ground segment; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

#### Electronics, communications & ICT

Radars; electronic warfare; C4ISR; cyber defence; surveillance & security; systems & equipment; simulation; maintenance & life cycle support; ICT

#### Services, logistic & auxiliary

Infrastructures; CBRN; health & medicine; auxiliary industry and machinery; consumer goods

Consulting & engineering Consulting & engineering

AKKA Technologies Spain is part of an international engineering and technologies consulting group (AKKA Technologies) at the forefront of the digital and connected world. AKKA is accelerating innovation for the world's largest industrial groups by supporting its customers throughout the entire life cycle of their projects (R&D, design engineering, industrialisation, product life cycle, after-sales) and through various Centres of Expertise (system engineering, mechanical engineering, process engineering, electrical / electronic & embedded software, support engineering, information systems and consulting).

AKKA Technologies Spain offers a combination of engineering services & digital technologies for delivery across sectors (aerospace, energy, railways, automotive, naval, pharmacy, agriculture, etc.).

Certifications ISO 17020 ISO 9001 UNE EN 9100

#### **Engineering Services - Aerospace Engineering**

We are suppliers of engineering services for the aerospace and defence sectors in the following areas: systems engineering and V&V (specification and design of systems and equipment, integration, certification, testing, equipment qualification, hardware and software, assurance. simulations, etc.); design, integration and testing of hardware and software: mechanical and electrical design, thermal analysis, manufacturing; industrialisation; supply chain; RAMS; digitisation; quality: maintenance (A/C operability, supportability, CAMO, BITE, etc.) and in-service support.



Consulting & Engineerting Sector

### **Engineering Services - Aerospace Documentation**

We are providers of engineering services for the aerospace and defence sectors in the following areas: technical publications (analysis and preparation of service bulletins and maintenance manuals such as AMM, IPC, IPL, SRM, etc.); training (preparation and delivery of training for flight crew, load master and maintenance crew); operational documentation (preparation and distribution of operations manuals, digitisation, etc.), support for services and operations in flight; field rep. support and ILS.



#### **Engineering Services - Naval**

We are suppliers of engineering services for the military naval sector: systems engineering, materials and equipment qualification, safety, electrical engineering, mechanical engineering and RAMS.

We also provide support to quality departments, therefore conducting inspections at the source and providing document management, in addition to testing departments: mechanical, electrical and electronics tests, combat systems, etc.



### Engineering Services – Industry and Energy

We are suppliers of engineering services for the industry & energy sector. We develop engineering activities in the field of renewables, O&G and power generation, not only for technologists and manufacturers, but also for utilities and EPCs. In general, we focus on projects related to supporting the development of wind farms and photovoltaic and industrial plants, in activities such as monitoring & control, SCADA development, communications systems and IT activities for critical infrastructures.



### **Engineering Services – Industry and Automotive**

- Validation and Verification Engineering.
- Validation of connected car and autonomous driving functions.
- Industrial programming for robotics and PLCs, in addition to electrical and mechanical design for commissioning of automotive installations for OEMs.
- Product design for interior and exterior elements of vehicles.
- Software development for embedded applications.
- Software Quality Assurance (SQA).
- Tooling.
- Technological and digital projects (ERP, CRM, Infrastructures, etc.).
- Solutions focused on regulatory affairs, IT compliance and QA.





#### **ALTEN SOLUCIONES, PRODUCTOS, AUDITORÍA** E INGENIERÍA, S.A.

Rescue & police vessels; systems & equipment; maintenance & life cycle support

#### Aerospace

Aerial systems & equipment

Armament and ammunition Ammunition

Electronics, communications & ICT C4ISR; ICT

Consulting & engineering Consulting & engineering

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C/ Vía de los Poblados, 3, edif. 5 28033 Madrid (Spain) Phone:+034 917910000 WWW.ALTEN.ES

A European leader in technology, consulting and engineering, with an international presence, more than 33,000 employees and a turnover of €2.1 billion. Alten provides its services to leading companies in the Spanish market thanks to its headquarters and offices in Madrid, Barcelona, Pamplona, Valladolid, Cadiz, Seville and Bilbao, ALTEN's range of services is based on a fundamental concept: its ability to meet operational needs using the most appropriate technology. Its ability to develop and adapt to the requirements of the market facilitates ALTEN's presence in different sectors of the economy and industry, while providing services to create business solutions through technology.

Certifications ISO 45001 **UNE EN 9100** ISO 14001 ISO 20000 ISO 27001 ISO 9001

#### **IT Consulting Services**

IT Consulting Services for different areas, such as business solutions, managed services, big data, business intelligence, mobility solutions and software testing.



#### Consulting on Aeronautical, Space and Defence Engineering

Engineering Services throughout the life cycle of aeronautics, space and defence products: Conceptual engineering, embedded software development, hardware integration, manufacturing engineering, logistics & supply chain as well as customer services.



#### **Embedded Software**

Embedded software development & testing related to aeronautical, space & defence products.



### Consulting Services for E-Learning

Consulting services for E-learning platforms: identification of training needs, creation of materials and implementation of platforms.





C/ Llacuna, 56, 08005 (Barcelona) Spain Phone: +34 932723220 www.altran.com/es

#### **ALTRAN INNOVACIÓN, S.L.**

#### Aerospace

Aerial systems & equipment; satellites; ground segment; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Electronics, communications & ICT Radars; surveillance & security; ICT

Consulting & engineering Consulting & engineering

Altran Spain is a company of the Altran Group, a global leader in innovation and technology consulting. Since 1992, it has worked with 150 leading companies in the main sectors of the country.

Specialising in the defence sector: ALTRAN specialises in the field of defence and consulting engineering in its areas of expertise:

- Design of components and systems.
- Static, dynamic and vibroacoustic structural analysis.
- Life cycle support / ILS.
- Production engineering.
- On-board electronic systems.
- Test benches.
- Composite materials technologies.
- Qualification, certification and validation of tests.

# Industrial, Technological and Aeronautical Engineering and Consulting.

Intelligent Systems is the name of the new generation of on-board systems and real-time massive data processing capability. Altran draws from six practices (systems engineering, software engineering, electronics, safety, security and connectivity).



Certifications ISO 14001 ISO 9001

### Management Altran works around five global

practices: innovation management, product design and systems engineering, supply management and manufacturing, distribution and support, and management of the product life cycle.

**Knowledge and Change** 

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### Consulting for Public Administrations

Altran's commitment to the Public Administration is reflected in having developed various projects and services oriented at improving the efficiency of and contributing to the modernisation of our Public Administration. Thus, Altran participates on projects that, either in whole or in part, encompass the cycle of a public policy, from strategic definition to developing and maintaining the supporting information systems, in order to facilitate the implementation of regulatory processes and change, thereby also seeking continuous improvement and quality in the service provided through follow-up and evaluation.

**Software Development** 

general and transportation.

Our solutions cover a wide range

of industries, including automotive,

construction, complex machinery in



Avda. Leonardo da Vinci, 22 28906 Getafe (Madrid) Spain Phone: +34 916832030 www.ctingenieros.es

#### CT INGENIEROS AAI, S.L.

#### Land

Systems & equipment; simulation; maintenance & life cycle support; auxiliary industry & spares

#### Naval

Systems & equipment; simulation; maintenance & life cycle support; auxiliary industry & spares

#### Aerospace

Aerial systems & equipment; simulation; satellite systems & equipment; maintenance & life cycle support; auxiliary industry & spares

Armament and ammunition Auxiliary industry & spares

Electronics, communications & ICT Systems & equipment; simulation; maintenance & life cycle support; ICT

Services, logistic & auxiliary Field logistic; infrastructures; auxiliary industry and machinery; consumer goods

Consulting & engineering Consulting & engineering

CT provides engineering services related to defence in the aeronautical, naval and land sectors. Our portfolio of services covers the entire product life cycle: from design, product engineering and manufacturing engineering to the engineering of after-sales support. We are a preferred supplier for product engineering services (E2S) and manufacturing services (ME3S) for the entire AIRBUS Group throughout the world. In the naval area, we are a benchmark supplier for all the factories of NAVANTIA, and in the land area, for GDELS SBS. With over 30 years of experience and the technical expertise of our team, formed by over 1,800 engineers, CT has a clear goal: providing innovative and technological solutions to help its customers become more effective and competitive.

Certifications ISO 27001 ISO 9001 UNE EN 9100 ISO 45001

#### **Engineering Services**

Our technological capabilities cover the entire life cycle of the product. We provide the design of primary and secondary structures, in addition to basic and detailed engineering; the integration of mechanical, hydraulic and electrical systems; manufacturing, stress and flight physics engineering; and development and production support, as well as logistics support, technical manual writing, service bulletins, product certification, MRO and software development. We work on the most important projects of the main international companies in the aeronautical, naval and land defence sectors.



#### **Aeronautics**

We participate in the main defence programmes of AIRBUS D&S, both fixed wing (A330 MRTT, A400M, C295, CN235, C212, EFA) and rotary wing (NH90, TIGRE, EC-725 COUGAR, CARACAL). Since 2006, we have been working on the A400M for defining multistation assembly processes, manufacturing engineering for FAL stations, the calculation of structural components, the development of service bulletins, MRO support and simulation. On the A330 MRTT, we participate in the whole design phase and in a wide range of activities (structural calculation. assembly processes, antenna installation, mission system).



#### **Naval**

We develop engineering projects from the conceptual phase to final delivery. We are specialists in Life Cycle Engineering and are a NATO cataloguing company, and we have extensive experience in handling national and international military regulations and standards. We participate on important naval defence projects: frigates (F-100, F-310 series or Australian AWD destroyers); large amphibious assault ships (Juan Carlos I of the Spanish Navy, ALHD for the Royal Australian Navy); submarines (Scorpène and S-80); and logistic support ships (BAC Cantabria and AOR). We are currently involved in the F-110 project for the Spanish Navy.



#### Land

In the area of land defence, we have been involved in various projects since 2017. Our in-depth experience in other areas allows us to contribute to the optimisation of engineering solutions for land platforms.

We are a first-tier engineering firm of reference for GDELS SBS, with which we collaborate by providing support on mechanical and systems design, technical documentation and production support for the VCZAP CASTOR tracked vehicle and the VCR 8x8 DRAGON wheeled vehicle. We also collaborate with EXPAL on mechanical and systems design, and we develop proprietary solutions in areas such as simulation, training and logistics management.



#### **Digital Transformation**

At CT we actively participate in the digital transformation process. Based on a clear and simple methodology, we accompany the customer throughout the process of change and provide incremental and custom-designed solutions. Our daily experience in the use of tools and new technologies allows us to apply the most useful technology for each case, thereby ensuring that the adaptation and implementation process is a success.

We cover all the new technologies (Intelligent PLM, Digital Factory, use of RPAs in engineering, Continuity/ Digital Twin, Virtualisation, Big Data, IoT, etc.), and we apply them using our own or third-party tools.



# **GHENOVA**

#### **GHENOVA INGENIERÍA. S.L.**

Systems & equipment; auxiliary industry & spares

Aerospace

Aerial systems & equipment

Electronics, communications & ICT ICT

Services, logistic & auxiliary Infrastructures; consumer goods

Consulting & engineering Consulting & engineering

### 260

Avda. San Francisco Javier, 20, edif. Catalana Occidente, planta 2ª 41018 Sevilla (Spain) Phone: +34 954990200 www.ghenova.com

GHENOVA is an international. multidisciplinary engineering and consulting company that operates in sectors in which a comprehensive solution is required. Our team - committed to quality and deadlines develops and participates on large and highly complex technological projects for some of the world's largest firms in the defence, security, naval, offshore, aeronautics, industrial, energy and infrastructure sectors.

That is why GHENOVA is now a company of international repute, with extensive experience in designing, developing and managing projects at a global scale and with customers who are benchmarks in the world and our best quarantee. Large firms that give value to our services, such as: Westsea, HDW, Royal IHC, Navantia, STX France, ThyssenKrupp, Vard and Airbus, in addition to the navies of countries such as Australia, Denmark, Spain, Norway and Turkey.

Certifications **OHSAS 18001** ISO 14001 ISO 9001

#### **Engineering**

GHENOVA offers services that cover the entire engineering value chain. Our ability to carry out large projects – by managing our own resources as well as those of a network of stable and reliable subcontractors – constitutes an important added value. Our experience allows us to offer single-source engineering that is capable of taking full responsibility for projects, from preliminary designs to commissioning, including configuration and certification activities. Our team of engineers has the tools and experience to design the most suitable products for satisfying our customers' specifications.



#### **Definition and Design**

GHENOVA works equally with shipyards, builders, manufacturers, shipowners and operators, both at a local scale and internationally, and it does so from the earliest stages of the process. Stages in which crucial decisions are made concerning investments, costs and estimates, which allow us to offer our customers a wide range of services: complete conceptual design for a vessel, installation or infrastructure, or support activities such as guaranteeing the requirements from all major classification societies, specialised analyses and calculations or the study of operational limitations.



#### **Development**

We provide integral development engineering services using specific software for designing the layout of plants, vessels and infrastructures and for the calculation and design of structures and processes, among others.

We are experts at successfully coordinating different production methods, work standards and tools for the design and management of materials, as well as handling dynamic projects in which the basic and development engineering overlap. We are capable of operating efficiently in dynamic environments, which at the same time have demanding deadlines. Our extensive portfolio of successfully completed development projects serves as proof for this.



#### Consultancy

We provide consulting services in every sector in which we compete. We collaborate with our customers at every stage of their investment, from the preliminary analyses to commissioning, including all the necessary modifications during the life cycle. We take part in remodelling and modernisations, as well as in the manufacturing and repair processes of structures. We conduct improvement studies, and we update technical documents and manuals. We also provide impartial advising to handle all types of requirements from shipyards, builders, shipowners, operators and equipment suppliers.



#### Management

We provide a wide choice of management services. They range from document and environmental management and energy audits to project management for construction or manufacturing, therefore including quality control and commissioning. Moreover, we provide support to our procurement, vendor management and offer approval departments. Technical support and maintenance, training and tool and spare parts management are also among our services. Each of the management services provided by GHENOVA is based on our multidisciplinary know-how and is endorsed by our extensive project portfolio.





#### BUQUELAND EMPRESA EUROPEA DE LA INGENIERÍA DE LA CALIDAD, S.L.

Recinto Interior Zona Franca, edif. Melkart, oficina 24

11011 Cádiz (Spain) Phone: +34 956564742 www.buqueland.com

BUQUELAND Empresa Europea de la Ingeniería de la Calidad, S.L. was founded as a company for the purpose of providing a comprehensive response to a very specific market function: ensuring the quality of metal structures, while staying true to our commitment to the environment and occupational risk prevention.

- NDT quality control.
- Thickness measurement.
- Dimensional control.
- Coating and paint system inspection.
- Industrial radiography.
- Wind energy in the naval and industrial sectors.
- Offshore quality services.

Certifications ISO 14001 ISO 9001 OHSAS 18001



#### GAHN, LOGÍSTICA, GESTIÓN Y CONSULTORÍA. S.A.

C/ Velázquez, 11, 6° dcha. 28001 Madrid (Spain) Phone: +34 915764266 www.gahn.es

Gahn is a firm specialising in the comprehensive management of entities that are set up to develop turnkey projects that require the participation of several companies working as joint ventures or consortiums. Gahn provides comprehensive services throughout the execution of a contract. These services include planning, technical control and monitoring; the development of management and control procedures; quality assurance; financial management; administrative management; legal and tax advising; and logistics. Our services include the phases of bid preparation, the beginning of business activities, execution of the project and termination of the joint venture. Gahn participates in the management and coordination of diverse projects of the Spanish Armed Forces.

Certifications ISO 14001 ISO 27001 ISO 9001 ISO 45001



#### **IBATECH TECNOLOGÍA, S.L.U.**

C/ Doña Juana I de Castilla, 50 28027 Madrid (Spain) Phone: +34 913759465 www.ibaconsultores.es

IBATECH Tecnología S.L.U. is an engineering company that operates in the fields of CBRN defence, EOD, meteorology, communications and logistics, with extensive experience in design, integration, supply, R+D and maintenance related to the following:

- The detection, identification and decontamination of CBRN agents.
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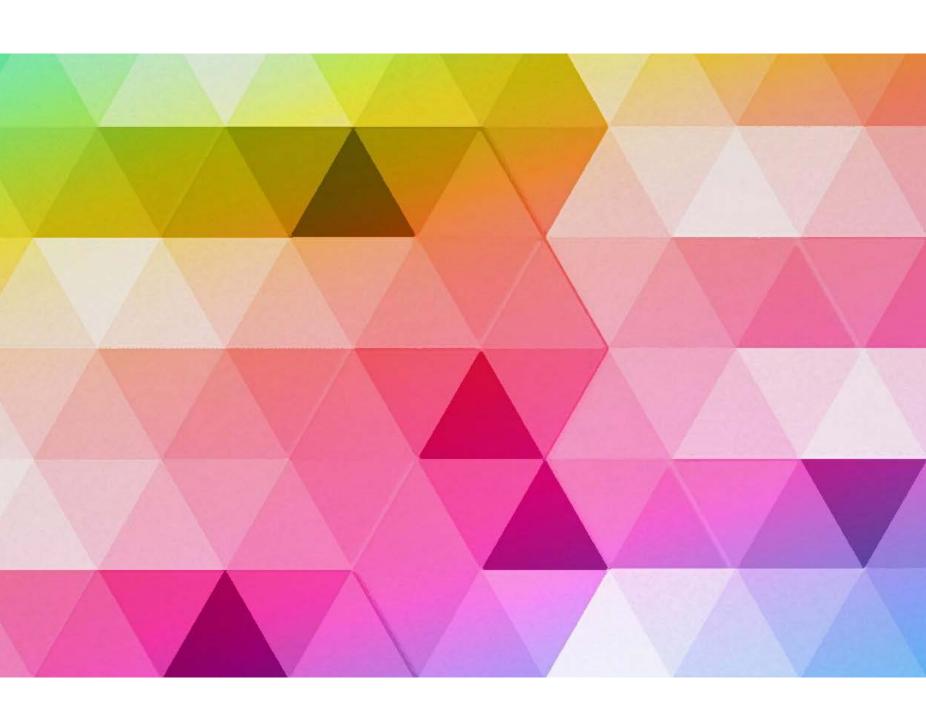
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