#### 2023-2024 Catalogue Spanish Defence Industry









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#### 2023•2024 Catalogue

#### **Spanish Defence Industry**

Fifth edition





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### Presentation 2023-2024 Spanish Defence Industry Catalogue

# State Secretariat of Defence

In a period that is profoundly marked by changes in the global geostrategic scenario, I am tasked with presenting the fifth edition (2023-2024) of the Spanish Defence Industry Catalogue, prepared by the Directorate-General for Armament and Materiel, as one of the institutional means of support to the defence industry by the Ministry of Defence.

While the previous edition covered a particularly complex period, the time frame of this catalogue is more conditioned by the ongoing consequences of the pandemic as well as the effects of active conflicts, without a doubt the most determining one being Russia's invasion of Ukraine.

The State Secretariat of Defence is the entity of the Ministry of Defence that provides the greatest support to the Spanish defence industry, a strategic sector for national security and sovereignty and, in these turbulent times, fundamental for promoting Spain's contribution to collective security and defence, which is so necessary in a globalized world.

Our industry, represented by all of the companies included in this catalogue, after years of hard struggle to prove its quality and worth, has attained international recognition, offering innovative, efficient and technologically advanced products and services, both to our Armed Forces and to allied and friendly countries.

One of the lines of action defined by the Spanish government consists of endeavouring to improve deterrence and response capability in the face of threats, either individually or collectively. The recently approved budget is the first step toward reaching the 2% target set for 2029. Already in 2023, the Ministry of Defence's budget will reach €12,825 million, an increase of 25.8%.

This obliges the industry to increase its efforts in order to respond to the requests made of it as efficiently as possible, thereby enabling it to decisively face current and future challenges.

The year 2023 will be a crucial one for the defence industry. The first half will see the third edition of the International Defence and Security Exhibition (FEINDEF) being held, an event that will contribute to raising visibility of this sector at international level. The second half will also be important, as Spain will hold the presidency of the European Union. All of the foregoing, together with the activities derived from the Stra-



María Amparo Valcarce García Secretary of State for Defence

tegic Compass, must be harnessed by the national defence industry.

It is my wish, as the person responsible for the State Secretariat of Defence, that this "2023-2024 Spanish Defence Industry Catalogue", recently published in Spanish, English and Arabic, should contribute to enhancing the capabilities of this sector, help consolidate this reputation and serve as a stimulus to encourage other companies to be part of the next edition.





#### Introduction



### Directorate-General for Armament and Materiel

On the one hand, the 2020 National Defence Directive, in one of its lines of action, clearly establishes the fostering and protection of an innovative defence industry, capable of being incorporated into multinational projects and business groups, especially in the European context, thereby enabling a high technological level of the operational capabilities of the Spanish Armed Forces to be maintained.

On the other hand, the current geopolitical situation derived from the invasion of Ukraine and the geopolitical instability due to the Taiwan crisis have shown the need to have the necessary industrial and strategic capabilities in place to increase autonomy and reduce dependence on third parties.

Within the EU, it is hoped that the Spanish industry will play a significant part in the projects agreed upon in the Permanent Structured Cooperation (PESCO). Since 2017, Spain has played a very active part in the two initiatives of the European Defence Action Plan (EDAP): the Preparatory Action for Defence Research (PADR) and the European Defence Industry Development Programme (EDIDP).

In a globalized world, complying with the aforementioned would not be possible without the effort applied to internationalization and the export capacity that has been demonstrated by the Spanish defence industry for years.

In this regard, the fifth edition of the Spanish Defence Industry Catalogue is an effective tool that helps the DGAM to comply with one of its functions, namely supporting the internationalization of the Spanish defence industry. This enables our industry's capabilities to be disseminated and constitutes an excellent showcase for our defence industry to facilitate its entry into international markets, either as exporters or as technological partners in cooperation programmes.

As in previous editions, this publication will be distributed to the Spanish defence attachés and counsellors abroad, as well as to foreign defence attachés accredited in Spain. It will also be given to representatives of defence ministries and foreign industries, on the occasion of visits from high-level authorities, bilateral meetings with official delegations from other countries in the field of armament and materiel, industrial workshops and visits from technical delegations organized by the DGAM in Spain or abroad. In addition, it will be distributed to various authorities from the General State Administration, to the main associations of the



Admiral Aniceto Rosique Nieto National Armaments Director

sector and, of course, to all the companies included therein.

I would like to finish by highlighting the International Defence and Security Exhibition (FEINDEF) to be held in Madrid in May 2023, which, with the institutional support of this ministry, represents an important milestone in the consolidation of Spain's role and that of its defence industry in the international environment.





### Editorial Comment

# Deputy Directorate-General for International Relations

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-General for International Relations, namely the need for an official, public and free-of-charge publication that would make it easier to publicize and promote the capabilities of the Spanish defence industry in foreign markets.

Such a publication was to provide, in a user-friendly format, verified, unclassified information on the capabilities of our industry, thus facilitating its wider dissemination. Another essential requirement was its impartiality and openness to the entire industry.

In line with these parameters, which are still valid, we present today what is already the fifth edition (2023-2024) of the Spanish Defence Industry Catalogue (former editions are from 2016, 2017-2018, 2019-2020 and 2021-2022). It is therefore a fully consolidated publication in its specific field.

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

As indicated, the catalogue is open to the inclusion of all companies that, 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.

The catalogue is organized by main sectors of activity and contains a single entry 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 2022, 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 of the catalogue 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 at the end of the catalogue, 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.

As a new feature, this edition includes information on the International Defence and Security Exhibition (FEINDEF), the third edition of which will be held in Madrid from 17 to 19 May 2023.

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

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

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

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





## Spanish Defence Industry



### International Defence and Security Exhibition

FEINDEF, the International Defence and Security Exhibition, organized by the FEINDEF Foundation, is the only exhibition in Spain in the defence and security sector that is institutionally supported by the Ministry of Defence, and is positioned as the most important defence and security event held in Spain, opening its doors to the world and providing new business opportunities.

FEINDEF is the reference forum that encompasses the defence and security sector in Spain to facilitate innovation, international cooperation and the sharing of knowledge among companies, institutions, universities and other organizations, providing a response in this field at global level.

This International Defence and Security Exhibition is the best showcase for our national defence industry, while providing access to the new European defence market. It is also considered a reinforcement for the implementation of initiatives in various fields: collaborative research, capability development, the promotion of investment in the European supply chain and the creation of a single European defence market.

#### Deputy Directorate-General for Inspection, Regulation and Defence Industrial Strategy

The defence industry is a strategic sector, not only in its function as supplier of the systems and materiel required by the Armed Forces, but also in a wider context of the national economy, as a driving force to strengthen Spain's technological and industrial base, given that the activities it carries out have a high level of duality, a strong technological component and high added value. It is a key element for the development and growth of society as a whole, and plays a fundamental part in the development of technologies and industrial capabilities.

Historically the sector has depended on national armament programmes, but in recent years many changes have taken place that have had a significant impact on the defence technological and industrial base (DTIB), such as the global pandemic caused by COVID-19 and the European drive for the strengthening and consolidation of a common Europe of Defence. Moreover, the events of 2022, such as the war in Ukraine, the escalation of tension in the Asia-Pacific region and the consequent increase in defence budgets by most of the countries around us, pose a rapidly and continuously evolving scenario. In this context, it is even more critical to strengthen the competitiveness and sustainability of the national industry and ensure its appropriate position in the international environment. To all of the foregoing we must add the speed of the technological changes currently occurring, with the emergence of new disruptive technologies that change the scientific and technological context and promote new applications, both dual and defence.

In addition, the defence industry, apart from being the supplier of systems and services to Spain's Armed Forces, has another main purpose, which is to contribute to meeting our commitments within the framework of the European Union and NATO.

Currently, and at European level, we are facing a crucial moment in which the European map of the sector is being defined on an industrial level and the cooperation initiatives in the area of European Union defence continue to increase. The European institutions have been launching different initiatives to foster competitiveness and reduce the fragmentation of the defence sector's industrial fabric in the EU Member States, such as the Permanent Structured Cooperation (PESCO), launched in 2019, or the European Defence Fund (EDF), which will allocate almost €8 billion to fund collaborative research projects and complement Member States' investment by co-funding the costs of defence capability development. Also of note is the work being carried out on the Common Procurement Act (EDIRPA), which is intended to be a short-term financial instrument, worth €500 million, to incentivize the common procurement of defence equipment among Member States.

On the other hand, in the NATO environment, Spain has committed to increase its defence budget to 2% of GDP by 2030, which implies a sharp increase in investment as shown in the estimate in the graph below:



Figure 1. Estimated Defence Budget, Spain

Immersed in this international context, the Spanish DTIB had over 520 companies in 2021. Of these, 350 supplied products and services in the area of defence, creating almost 22,000 direct jobs exclusively dedicated to defence, and generating over  $\in$ 6.3 billion exclusively in defence turnover<sup>1</sup>. As their sales volume (civilian and defence) totalled  $\in$ 43 billion, the defence sector percentage was, therefore, 15%. The defence industry sector is still strongly dependent on the driving force generated by large armament programmes, from which Tier 1 and Tier 2 type companies benefit in particular, as also do other subcontractors and SMEs in the supply chain (highly dynamic and innovative companies representing around 85% of all defence industry companies in Spain). This dependency is reflected in the volume of sales coverage in the sector, in which 1.5% of companies account for 75% of the entire market, as shown in the following figure:



Figure 2. Total Defence Sales Coverage

International sales, including cooperation programmes, amounted to 79% of the business. This international activity has been increasing gradually in the past decade up to 2019, going from  $\in$ 3,700 million exports in 2012 to reach  $\in$ 5,575 million in 2019. Since 2020 figures have fallen, descending to  $\in$ 4.9 billion exports in 2021 (preliminary figures) due to the slowdown caused by COVID-19, although it is expected that the upward trend will be recovered.

Domestic turnover remains more or less constant, although the international component is becoming increasingly important. This is largely due to the European defence market, which has been consolidating in recent years and which, as already pointed out, is and will be from now on a fundamental pillar for the future of our DTIB. It is worth mentioning that, although the consolidation of the European market is important, the export capacity of our companies is no less important, as it is an indispensable asset that should not be overlooked in these times of change and volatile environments.

The industry must take advantage of the increase in the national defence budget and the momentum of the international arena to position itself in Europe and strengthen its industrial and technological capabilities. To this end, it will have the support of the Ministry of Defence with actions such as the publication of this 2023-2024 Spanish Defence Industry Catalogue.

<sup>&</sup>lt;sup>1</sup> Data from the Register of Companies of the Directorate-General for Armament and Materiel, 2021.





#### Business Associations of the Sector

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



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

#### Industries committed to the future

The business association TEDAE encompasses more than 100 companies that develop leading-edge technologies for defence, security, aeronautics and space. These include large and medium-sized companies, main contractors and suppliers of systems, together with other smaller but very specialized companies that share the same commitment: the generation of advanced technology, the talent of their workers and the social return on investment.

The companies included in TEDAE provide stability, stimulate the economy and spur growth thanks to their permanent commitment to innovation and cutting-edge technology.

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

TEDAE's day-to-day activity is geared toward:

- Boosting the development of its companies.
- Ensuring its sectors are taken into account in the development of industrial strategies.
- Supporting Spanish design and manufacturing.
- Fostering investment in technology and innovation.
- Facilitating the development of business opportunities in Spain and in priority international markets.

One of the main characteristics of the companies associated with TEDAE is the significant effort they make every year to invest in R&D&i, aware as they are that technological leadership is their most competitive feature.

The investments and efforts made in recent decades have placed Spain among the countries in the world with an industrial fabric that are present in the complete product cycle: design, manufacture, integration and maintenance. Spanish industry has a wide range of products in all segments of activity: land, naval, air, cyber security and space.

TEDAE companies also have wide-ranging experience in international cooperation programmes and the capacity to lead complex projects that compete in global markets, where they have already attained a relevant position.

TEDAE's mission is to collaborate actively in fostering the Spanish industrial fabric, to be the voice of its industries and to support them, together with our Ministry of Defence, in the promotion of cooperation with other international companies and entities.

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

### Association of Contractors with Public Administrations (AESMIDE)



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

#### Introduction

AESMIDE is a multi-sectorial, non-profit association. Its main aim is to promote its associate companies, fostering and defending their capabilities in national and international markets. AESMIDE was founded in 1984 as an interlocutor for goods and services suppliers with the Ministry of Defence. It currently works with public administrations in Spain and other countries.

#### Mission

AESMIDE's mission is to provide constant and close support, both to its associates and to the Public Administration, to which it provides specific solutions. It also creates the appropriate channels for its companies to make contact with public entities of all kinds, establishing a dialogue that is useful and beneficial to both parties.

#### Goals

AESMIDE's goals are to combine the interests of the public and private sectors in the association in order to foster cooperation between both parties to ensure development and mutual benefit, defend the common, professional and economic interests of the association as a whole, serve as an interlocutor between the private goods and services industry and the Public Administration, represent associates in national and international bodies from the sectorial and territorial areas that are relevant to their activity, and boost all promotion activities that may be necessary.

#### **AESMIDE** companies

The AESMIDE associate companies focus on one of the most important parts of the defence industry, namely the quality of life of soldiers and sailors. They ensure the supply chain so that the Armed Forces can do their job properly. As a whole, the capabilities of 71 AESMIDE associate companies cover the needs of the Armed Forces and can be broken down into the following areas of activity:

- Food supply.
- Personal equipment and uniforms.
- Management, integrated maintenance and energy services.
- · Infrastructures, equipment and installations.
- Field logistics.
- Distribution logistics.
- Healthcare.
- Special services.
- Engineering systems and solutions for defence.
- Information technology and systems.





## Companies by Sector

			Land Naval Aerospace																							
		Page	Vehicles	Systems & Equipment	Simulation	Maintenance & Life Cycle Support	Auxiliary Industry & Spares	Military Vessels	Submarines	Police & Rescue Vessels	Other Vessels	Systems & Equipment	Underwater Systems	Simulation	Maintenance & Life Cycle Support	Auxiliary Industry & Spares	Aircraft	Helicopters	RPAS	Aerial Systems	a t	Simulation		Satellite Services	Ground Segment	Satellite Systems & Equipment
	ADELTE TRANSPORTE Y SERVICIOS EFS, S.L.	64	х			х																			_	
	AUCAR TRAILER, S.L.	64	х																							
	CASLI, S.A.	64				х																				
	CAUCHOS PUNTES, S.L.	64					х																			
	COMERCIAL HERNANDO MORENO, S.L.	65				х	х																			
	COMPAÑÍA DE RECTIFICADOS DE CORDOBA, S.A.	65				х	х																			
	DANIMA INGENIERIA AMBIENTAL, S.A.	44		х																						
	ENGINEERED LAND SYSTEMS, S.L.	46		х																						
	GDELS-SANTA BÁRBARA SISTEMAS, S.A.	48	х	х		х																				
	GRUPO DE INGENIERÍA, RECONSTRUCCIÓN Y RECAMBIOS JPG, S.A.	50		х	х	х	х																			
	HISPAMAST, S.L.	65		х																						
c	INDITE 2000, S.L.	65		х		х																				
Main sector: Land	INDUSTRIAS ZAMARBÚ, S.L.	66	х			x	х																			
n se Lan	IVECO ESPAÑA, S.L.	52	х	х		x																				
Mail	MARZASA - MARTÍN ZABALLOS, S.A.	54		х																						
	PROTEC-FIRE, S.A.	66					х																			
	RALENTIZADORES Y TRANSFORMACIONES, S.A.	66					х																			
	RENOVA-MOTOR,S.L.	66				х																				
	SAPA OPERACIONES, S.L.	56		x	х	X	х					х														
	SOLINTAL SRD, S.A.	67					х																			
	STAR DEFENCE LOGISTICS & ENGINEERING, S.L.	67				х																				
	STRUCTURAL AEROSPACE SYSTEMS, S.L	67		х	х																					
	TECHNOLOGY AND SECURITY DEVELOPMENTS, S.L.	58		х		х	х																			
	TECNOVE, S.L.	60		х		х	х																			
	UP LIFTING VERTICAL, S.A.	67					х																			
	URO, VEHICULOS ESPECIALES, S.A.	62	х	х			х																			
	ZF SERVICES ESPAÑA S.L.U.	68				x																				
	ABANCE INGENIERÍA Y SERVICIOS, S.L.	72						х	х	х		х	х	х	х	х										
	APOYO LOGÍSTICO INTEGRADO, S.L.	94													х											
	ARESA SHIPYARD, S.L.	74								х		х			х	х										
	ARIES INDUSTRIAL Y NAVAL SERVICIOS, S.L.U.	94												х	х											
	ARMANDO CALERO E HIJOS, S.L.	94													х	Х										
	ASTILLEROS CANARIOS, S.A.	94													х											
	ASTILLEROS GONDÁN, S.A.	76						х		х	х	х			х											
	CAMAR INDUSTRIAL, S.A.	78										х	х		х									х		x
	CARPINTERÍA NUESTRA SEÑORA DE LOURDES, S.L.	95													х											
	COMPAÑÍA DE INSTRUMENTACIÓN Y CONTROL, S.L.	95										х			х											
	CONSTRUCCIONES NAVALES P. FREIRE, S.A.	80						х		х	х				X											
	DESARROLLO TECNICAS INDUSTRIALES DE GALICIA, S.A.	82										х			x	х									$ \rightarrow$	
ų	FEJIMA, S.A.	95													х											
acto	FELIPE DEL ROSARIO HERNÁNDEZ, S.L.	95													x	х										
n se Vav	FLUIDMECANICA SUR, S.L.	84	X	х			X					х				х				×						
Main sector: Naval	FRIZONIA REFRIGERACION Y CLIMATIZACION, S.L.	96														х										
	GABRIEL BALLESTER, S.L. (SOLUTEC)	96													x											
	GADITANA DE CHORRO Y LIMPIEZA, S.L.	96													X	х				_						
	GAUZON IBERICA, S.L.	96													x	х										
	INDUSTRIAL DE ACABADOS, S.A.	97														х			-							
	INDUSTRIAS HIDRÁULICAS ROSPA, S.L.U.	97														х										
	MOTORAZA, S.L.	97													х											
	NAVANTIA, S.A., S.M.E.	86		х				х	х		х	х			х											
	PINTURAS ANSAPE, S.L.	97													х	х										
	QUIMDUNAVAL, S.L.	98													х											
	RODMAN POLYSHIPS, S.A.U.	88						х		х	x				х											
	RODRITOL, S.L.	98													х	х										
	S.A. DE ELECTRONICA SUBMARINA, S.M.E.	90											x	х		х										
	SAINSEL SISTEMAS NAVALES, S.A.U., S.M.E.	92										х														

				Arma	ament &	Ammu	nition					Electr	ronics, C	ommun	ications	& ICT						Log	jistics, <i>l</i>	Ancillary	& Servi	ces					
Maintenance & Life Cycle Support	Auxiliary Industry & Spares	Armament	Ammunition	Missiles	Demilitarization	CIED	Simulation	Maintenance & Life Cycle Support	Auxiliary Industry & Spares	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	Auxiliary Industry & Machinery	Services	Consumer Goods	Security Services	Other	Consulting & Engineering	
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		Page	Vehicles	Systems & Equipment	Simulation	Maintenance & Life Cycle Support	Auxiliary Industry & Spares	Military Vessels	Submarines	Police & Rescue Vessels	Other Vessels	Systems & Equipment	Underwater Systems	Simulation	Maintenance & Life Cycle Support	Auxiliary Industry & Spares	Aircraft	Helicopters	RPAS	Aerial Systems & Equipment	Simulation	Satellites	Satellite Services	Ground Segment	Satellite Systems & Equipment						
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	AIRBUS HELICOPTERS ESPAÑA, S.A.U. AIRTIFICIAL AEROSPACE & DEFENSE ENGINEERING, S.A.U.	112																^	x	X X	^										
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βŘ	GESTAIR MAINTENANCE, S.L.U.	133																													
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# Land Sector



#### DANIMA INGENIERÍA AMBIENTAL, S.A.

Land Systems & Equipment

Logistics, Ancillary & Services Auxiliary Industry & Machinery DANIMA NCAGE: 8893B, a company specialized in project development, engineering and equipment manufacturing. Manufacturer of logistical and tactical equipment: Vempar, multi-purpose platforms (load and rescue), trailers, ISO container handling system (ICHS), tippers, etc. All equipment is NSN catalogued.

33417 Avilés (Asturias) Tel.: +34 985514450

www.danima.es

Parque Empresarial Principado de Asturias, parc. 12

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#### Vempar

Vempar tactical ATV - NSN 3830-33-2076766 Vehicle required: Tactical 8x8 - 32 tonne/MAM Vempar logistical ATV - NSN 3830-33-2076765 Vehicle required: Logistical 8x4 -32 tonne/MAM



Certifications: ISO 9001 PECAL / AQAP 2110 ISO 14001

#### ICHS

ISO container handling system for Vempar tactical and logistic NSN 3830-33-2076770 ICHS allows handling of ISO 20' containers, 8' or 8' 6", without the need for a platform, equipped with fork yokes to secure containers during transport.



#### **Loading Platform**

Multi-purpose platform NSN 3990-33-2076769 Recovery and transport of vehicles such as BMR, BLR, TOA and VEC, etc., and any other vehicles weighing no more than 17,500 kg and with a length of up to 5,600 mm.



#### Tipper

Tactical and logistical 3-axle tipper trucks NSN 2510-33-2076768. The DN13 model incorporates tipping equipment and a 13.5 m<sup>3</sup> nominal capacity cargo box.



### Tactical Trailer

Tactical trailer model REMTT08 NSN 2330-33-2075384 The REMTT08 trailer is designed to be part of the Tactical Vempar system capable of operating in all types of terrain.





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

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

Land Sector

Land Systems & Equipment

manufacture of vehicle bodies for military and humanitarian aid projects. The international spirit of our gualified and young team has led us to export 87% of our production. More than 10,000 ELS vehicle bodies are still in operation at the service of governments and institutions in different countries around the world. Our technical team is committed to participative and personalized design and is flexible at all times. We always take our customers' opinions into account. After delivery, we guarantee operability thanks to our logistical support (manuals, training and spare parts list). Our methodology is guided by the principles of corporate social responsibility and respect for the environment, generating a positive impact on society.

ELS is a Spanish company specializing in the design and

#### **Troop Carriers**

ELS troop carriers can transport people, palletized and bulk cargo, shelters and ISO containers in the safest way. This is one of our most versatile vehicle bodies. Different configurations include: anti-roll seats, cranes, winches, tarpaulins, twist locks, weapon support, intercoms, and many others. Various results can be obtained from a single vehicle body, as it can be adapted to different projects and needs.



Certifications: ISO 9001 PECAL / AQAP 2110

#### Refueller

FLS AVIATION is our brand specializing in the design and manufacture of aircraft refuelling tankers. Vehicles designed to work in airports and air bases anywhere in the world. As part of our catalogue, we offer military tactical tankers (AWD). They are perfect for scenarios where the refuelling of small aircraft and helicopters is of difficult access and highly mobile refuelling tankers and required. They are configured for rigid vehicles or semi-trailers, with a capacity of between 7,000 and 60,000 litres, thus satisfying logistical needs and activities.

#### Modular Anti-Roll Seating System

Design and manufacture of a special military seat system with rollover protection, tested according to the ECE R66 standard on structures for maximum passenger safety. High rollover resistance and proven protection against frontal, side and rollover impact. Specialized design for head impact protection. Designed to work in extreme conditions, seats with 4-point seat belts with approved anchorages. Tested by independent laboratories.







#### Mobile Workshops

ELS mobile workshops enable the effective performance of complete maintenance and repair work in the most adverse terrain and situations. There are various models depending on purpose: wheel repair workshop, vehicle repair workshop, greasing and lubrication workshop and workshops adapted for pickup vehicles. All these versions can be configured and even merged together if necessary.

### **GENERAL DYNAMICS**

European Land Systems Santa Bárbara Sistemas

### 48

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



#### GDELS-SANTA BÁRBARA SISTEMAS, S.A.

### Vehicles; Systems & Equipment;

Maintenance & Life Cycle Support Armament & Ammunition

Armament; Ammunition; Missiles; Maintenance & Life Cycle Support

Logistics, Ancillary & Services Consumer Goods

Santa Bárbara Sistemas is a Spanish company that employs more than 700 highly skilled employees in four workplaces, especially dedicated to the defence industry. Its know-how and the industrial infrastructures it operates provide SBS with unique technological capabilities in Spain, allowing us to be a European reference centre for R&D&i and production in the areas of mobility, protection, load, growth, firepower, systems integration and ILS. Santa Bárbara Sistemas has more than 40 years' experience leading land programmes for the Armed Forces of Spain and other NATO and non-NATO countries in areas such as ordnance, weapon systems, missiles and the following wheeled and tracked armoured vehicles: BMR, Pizarro, RG-31, Leopard 2E and SIAC artillery systems.

Certifications: ISO 9001 PECAL / AQAP 2110 ISO 45001 ISO 14001

#### VCR 8X8 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.



#### ASCOD Armoured Tracked Vehicle (Pizarro)

The ASCOD vehicle is one of the best Infantry Fighting Vehicles of its class (31 to 42 tonnes). It is 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 at its Spanish installations. 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.



#### Ajax Special Vehicle

ASCOD is the generic denomination of the tracked vehicle family based on a common basic platform with the capacity to integrate all kinds of mission elements, up to a maximum combat weight of 31 to 42 tonnes. Its main characteristics are flexibility to integrate weapons, sensors and various elements, maximum protection against diverse threats, both kinetic and explosive, and high mobility in all types of terrain. ASCOD is a versatile vehicle capable of satisfying the requirements of different customers.



#### Warheads and Rocket Motors

Manufacture of components of the Meteor missile, both in the warhead and telemetric versions. The components are the warhead, producing the structure and assembly of the active components, ammunition and explosives, the cutting charge responsible for self-destruction and the missile tube, a welded structure for the integration of the measuring elements in the telemetric version.





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

#### Land

Systems & Equipment; Simulation; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Armament & Ammunition Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Logistics, Ancillary & Services Auxiliary Industry & Machinery; Other

Simulation Simulation 50

C/ San Norberto, 42 28021 Madrid Tel.: +34 917109082 www.grupojpg.com

Distribution and after-sales service of original Santana 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 modernization of wheeled and tracked military vehicles, special machinery and test benches, in particular Kynos and Pizarro, in addition to special tanks of the M-60 family and Nissan and Iveco vehicles, including 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 Pizarro Tanks

Comprehensive maintenance of Pizarro tanks, including their constituent assemblies and subassemblies, 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 VLPD, CZ and CREC Special Tanks

Maintenance and repair of VLPD, CZ and CREC special tanks, including assemblies and subassemblies, such as engine, gearboxes, final drives, hull, electrical system, turret, hydraulic system, etc.



#### 3<sup>rd</sup> and 4<sup>th</sup> Echelon Maintenance of Maintenance/ Modernization of BMR/VEC Vehicles

Maintenance, modernization and repair of the complete BMR vehicle, including its constituent assemblies and sub-assemblies, such as engine, gearboxes, transmissions, hull, electrical system, etc.



#### 3<sup>rd</sup> and 4<sup>th</sup> Echelon Maintenance of M60 Tank

Maintenance and repair of M60 battle tanks including their constituent assemblies and sub-assemblies such as engine, gearboxes, final drives, hull, electrical system, turret and hydraulics.



#### 3<sup>rd</sup> and 4<sup>th</sup> Echelon Maintenance/Modernization of Kynos Tractor Units and Trailers

Maintenance and modernization of Kynos tractor units and gondolas, including their constituent assemblies and sub-assemblies, such as engine, gearboxes, hull, electrical system and hydraulics.



### 52

Avenida Aragón, 402 28022 Madrid Tel.: +34 903252700 www.iveco.es

lveco designs, manufactures and markets light, medium and heavy

#### IVECO ESPAÑA, S.L.

Land Vehicles; Systems & Equipment; Maintenance & Life Cycle Support

commercial vehicles, guarry and construction vehicles, urban and intercity buses, and special vehicles for applications such as firefighting, off-road and military missions and civil defence. lveco Defence Vehicles is the business unit that specializes in the development, production, marketing and servicing of products for armed forces worldwide, such as logistical, tactical, armoured and multipurpose vehicles with various levels of protection. These vehicles use FPT industrial powertrain components.

Certifications: ISO 9001 ISO 14001 ISO 45001 PECAL / AQAP 2110

#### **Heavy Vehicles**

A family of vehicles designed to satisfy all needs in all kinds of terrain, while providing maximum safety, comfort and performance. Wide variety of configurations: rigid or tractor versions, 2- to 4-axle models, part- or full-wheel drive capability, either single or double cab, and power ratings 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.



Land Sector

#### **Light Vehicles**

The DAILY range is the most complete in its category. From 3.5 to 7 tonnes, van or chassis type cab, diesel or CNG, 6 power ratings, double- or single-wheel, 4x or 4x4 drive, 2 types of cab (double or single) and up to 210 hp. More than 11,000 combinations are offered, 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 optimizes consumption.

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





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

#### MARZASA - MARTÍN ZABALLOS, S.A.

Land Systems & Equipment Manufacture 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, palletized cargo and shelters.

#### General Cargo Trailer - 2 t

1,500/2,000-kg all-terrain general cargo; folding and removable rear; removable arches and tarpaulin; 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

#### **Truck Body**

Folding and removable seats for troop transport; folding and removable sides and rear; removable arches and tarpaulin; NATO II and ISO 10 ft. shelter transport anchorage.



#### Truck-Mounted Fuel Tanker

Tanker for transport and fuel supply; equipped with litre counter, hose and service nozzle; carbon steel or aluminium construction; hose for gravity discharge.



#### **Fuel Tanker Container**

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



#### M05-G General Cargo Trailer

All-terrain, 500-kg cargo; automatic inertia brake; parking brake; NATO towing eye; adjustable support bracket; folding and removable rear; removable arches and tarpaulin; NATO lighting system; spare wheel and support.





Pol. Bazkardo, Ctra. N-1, s/n 20140 Andoain (Guipúzcoa) Tel.: +34 943304204 www.sapa.es

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#### SAPA OPERACIONES, S.L.



Land

Systems & Equipment; Simulation; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Naval Systems & Equipment

Armament & Ammunition Armament SAPA is a Spanish technology company in the defence sector that designs and manufactures high-efficiency transmissions for wheeled and tracked armoured vehicles, as well as multi-platform solutions for the generation, distribution and control of electrical energy. Our model is based on innovation and knowledge to deliver technologies that meet the requirements of our customers throughout the product's life cycle. SAPA is an internationalized company with R&D and production centres in Spain and the US.

#### **Anti-Aircraft Artillery Systems**

SAPA has specialized in antiaircraft artillery systems and today, through its alliance with Rheinmetall, supplies state-of-theart solutions such as the stationary Skyguard® and Skyshield® systems and mobile systems such as the Skyranger®.



Certifications: ISO 9001 PECAL / AQAP 2110

#### 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, optimized fuel consumption and a smaller cooling system.



#### Wheeled Vehicle Transmissions

SAPA's wheeled vehicle transmissions improve the efficiency of conventional automatic transmissions by eliminating the torgue converter, reducing losses due to hydraulic pumps, clutches and brakes and thus improving mobility in different types of terrain. Thanks to its patented multi-gear system, the transmission provides a high spread ratio (31) with 24 gears separated by an equal 16% gear increment. This allows for almost continuously variable transmission performance with efficiency of more than 90% and enables optimization of engine operation.

#### **Auxiliary Power Units**

SAPA's low-voltage generators, together with internal combustion engines, constitute the most power-intensive auxiliary power units that can be integrated on any combat vehicle. Customized 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 standby and surveillance situations, and power the fire control system, communications and the air conditioning system when the main engine is turned off.



### High Voltage Electrical Power and Generation Systems

SAPA supplies high-voltage electrical machines for power ratings 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 a high temperature (up to 100°C) and their reduced volume allow for an unrivalled range of applications in the field of electric vehicles, including traction motors and hybrid system generators.





### 58

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

With more than 30 years of

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

#### Land

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Logistics, Ancillary & Services Infrastructures; CBRN; Auxiliary Industry & Machinery experience, TSD has become a world leader in the design and manufacture of special vehicles and customized projects. TSD specializes in providing solutions to the needs of organizations and companies all over the world, by integrating the most advanced knowledge in materials and technology, involving the user at all times. Its products focused on the defence sector include, in addition to its own IBERO vehicle in its different versions to cover all types of missions, specialized military vehicle bodies, command posts, border control and surveillance vehicles, shelters and customized armoured vehicles, among others. TSD is currently present in more than 80 countries, accompanying the customer in all phases of the project.

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 3834 ISO 45001

#### Armoured Personnel Carrier (APC) - IBERO HTV

IBERO is an APC tactical vehicle, manufactured to face a wide variety of scenarios all over the world. The vehicle can be adapted for use in all types of terrain and personalized for the customer. With the aim of covering all protection and operational needs, three models have been developed, ranging from 5 to 15 tonnes, and their versatility allows armour configurations at various levels, from B6 to STANAG level II military armour levels. IBERO meets the needs of end users for protected vehicles with high ergonomics and interior habitability.



Land Sector

#### **Army Platforms**

TSD offers a wide range of customized logistic solutions for armies all over the world, including the transport of troops, goods, ammunition, explosives, tankers and mobile workshops, among others.

Through these different versions, it ensures adaptability to the environment and climate conditions where the vehicles will operate, providing special protection and anti-corrosion treatments.



#### **Shelters and Containers**

TSD designs and produces customized containers and shelters to support all defence logistical and operational needs (ground-based defence systems, communications, surveillance, unmanned systems control, workshops, logistic and storage control, generator units, accommodation units, etc.). These products are manufactured using premium grade raw materials and cutting-edge technology in compliance with industry-defined benchmarks.

#### **Discreet Armoured Vehicles**

Within the range of security vehicles, armoured vehicles stand out. Designed and manufactured with a high level of discretion, they preserve 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 vision cameras.



#### Tailor-Made Projects: Mobile Command Post and Border Surveillance

TSD analyses the operational needs of the users, in order to develop, design and manufacture tailor-made units to meet these needs, together with careful end-user training and integrated logistical support (ILS). Control and surveillance units provide protection for all types of perimeter and border areas. TSD manufactures and integrates a sophisticated surveillance system composed of radars, cameras and other sensors with command and control capabilities and the latest technological innovations, providing real-time information.



## TECNOVE

Avanida da A

60

Avenida de Alcázar, 6-8 13640 Herencia (Ciudad Real) Tel.: +34 926571032 www.tecnove.com

The Tecnove Group is a leader

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

#### Land

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Logistics, Ancillary & Services Field Logistics; Infrastructures; CBRN; Food in bodywork manufacturing and in the conversion and adaptation of special vehicles. It also offers the design and construction of camps and field hospitals, as well as catering services and facilities maintenance. In recent years, the Tecnove Business Group has marketed its products in over 60 countries, 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 organizations such as the United Nations, NATO and the European Union.

Certifications: ISO 45001 ISO 14001 ISO 22000 ISO 9001 PECAL / AQAP 2110

### Conversion and Adaptation of Special Vehicles

Tecnove Rapid Intervention Vehicles (RIVs). Tecnove's rapid intervention vehicles with pickup version bodywork are a fast and safe option to reach any area or emergency situation, reducing the response time and allowing the comfortable transport of the people and material necessary to carry out the intervention appropriately. Tecnove adapts vehicles and equips them so that they can carry out emergency missions with total guarantee.



#### Manufacture of Special Bodywork for Security and Defence

Tecnove manufactures special bodywork for military and law enforcement vehicles. The police assault unit is an example of the solutions that Tecnove's engineering develops for this type of mission. It includes a deployable ramp, which, thanks to its length and great projection height, helps to successfully resolve highly dangerous incidents. The assault ramp has a non-slip floor and protective armouring, features that make it particularly useful for the security forces when taking on targets located at higher levels, such as in buildings, aircraft, etc.



### Construction, Adaptation and Reconditioning of Containers

Construction, adaptation and reconditioning of containers for various purposes, such as kitchens, warehouses, refrigerators, accommodation, etc., which are designed according to customer requirements. Even though their standard construction measurements are 10, 20 or 40 feet, Tecnove can also build containers with any other dimensions in accordance with customer needs.



### Medical Mobile 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 turn them into real mobile hospitals: surgery rooms, radiology units, laboratories, etc. Toilets, showers, air conditioning and all elements to offer maximum user comfort can also be included. These units are also outfitted with power generators so that they are completely autonomous and can operate anywhere, even in extreme conditions.



#### Military Camps and Field Hospitals

Tecnove designs and builds military and civilian camps 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 disasters or armed conflict. Construction is completed in a very short period of time in order to ensure a quick response to the deployment needs of the military or organizations. Tecnove provides maintenance, laundry, cleaning, security and catering services. It also builds fully equipped, high quality hospitals that operate just like conventional hospitals.



### 62

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

URO, VEHÍCULOS ESPECIALES, S.A.

Land

Vehicles; Systems & Equipment; Auxiliary Industry & Spares

Armament & 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 all-terrain trucks to high-mobility vehicles, armoured vehicles, etc.

After-sales technical assistance for our all-terrain vehicles (land platform), including equipment and spare parts, is also one of the company's main activities. Customers: Our main customers are Spain's 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)

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

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110





#### VAMTAC LTV High-Mobility Vehicle

A lightweight, all-terrain vehicle with a GVW of up to 4.5 tonnes and a load capacity of up to 2 tonnes. Fitted with a permanent 4WD system and locking differentials on both axles. Available in various body configurations (chassis-cab, pickup, van) and with either a manual or an automatic gearbox.





Integrated Logistic Support Ensuring the operational

capabilities of our vehicles means that Integrated Logistic Support (ILS) is one of the fundamental pillars of our activity. It integrates the availability and supply of

spare parts and replacement kits

throughout the product life cycle,

cataloguing, traceability and stock

management of spare parts; user

training and provision of technical

assistance; scheduled maintenance

at the customer's premises; or field

service wherever the vehicles are

manuals: remote advice and

deployed.

thanks to an efficient system of

#### All-Terrain Truck

The URO all-terrain truck enables the transport of equipment, systems, personnel or any other type of cargo to the most inaccessible places, with total guarantee and safety.



#### ADELTE TRANSPORTE Y SERVICIOS EFS, S.L.

Avenida Josep Tarradellas, 204 08029 Barcelona Tel.: +34 902300601 www.adelte.com

For more than 50 years, Trabosa, the land transport division of Adelte Transporte y Servicios EFS, has been focusing on the design, manufacturing and maintenance of all types of high-capacity trailers for the transport of military tanks and other heavy equipment. Trabosa designs and manufacturers reliable, efficient and customized military trailers. Our trailers incorporate a high-strength steel chassis, an armoured electrical system and 2- to 6-axle on-road or off-road transmission. 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 complete any task in any conditions.

Certifications: ISO 9001 ISO 45001 PECAL / AQAP 2110 ISO 14001



#### AUCAR TRAILER, S.L.

Avenida Aragón, 78 22520 Fraga (Huesca) Tel.: +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 a track record, built by offering the best possible guarantees and an unbeatable after-sales service. Our capacity for innovation is proved by the

- following two European patents: - The Multi-Purpose European Trailer, which
- enables testing for "C" and "C+E" licences in a single vehicle.
- The "Policar" capillary distribution trailer for distributing goods in urban areas.



#### CASLI, S.A.

C/ Antonio Machado, 3 28035 Madrid Tel.: +34 914561760 www.casli.es

Casli, a privately owned group of companies with 100% Spanish capital and founded in 1943, represents firms of internationally recognized 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 authorized dealer for MTU-Detroit Diesel, Allison Transmission and Karcher-Futuretech, and it develops maintenance and modernization programmes for the TOA. 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) Tel.: +34 976463085 www.cauchospuntes.com

Cauchos Puntes is a company specialized in the manufacture and recovery of components for drive systems installed in armoured vehicles. Our production focuses mainly on parts that belong to the drive chain systems: brake pads for Leopard vehicles M-113, M-109, M-60, M-107, AAV7, M-579, M-108, M-110, AMX30 and AMX40. Bushings and pins for Leopard vehicles M-113 and M-109, Pizarro vehicles M-60, M-108 and M-110. Of note among our manufacturing activities is the reconditioning of rolling wheels, tensioners and rollers for Leopard, Pizarro, AMX30, etc.

We work with our own technology developed over the years, meeting the anti-abrasive, adhesion and anti-tear properties, as required by the specifications of the armies to which we provide professional support.

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

Certifications: PECAL / AQAP 2110 ISO 9001



#### COMERCIAL HERNANDO MORENO, S.L.

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

COHEMO, S.L. is a Spanish company specialized in the maintenance, repair, modernization and supply of assemblies and sub-assemblies for armoured and tactical vehicles in service in various armed forces around the world (Leopard 2 A4/2E, Pizarro/ ASCOD and BMR/VEC). The company also supplies spare parts for vehicles in production or vehicles whose long service life makes it difficult to maintain their supply chain (Leopard 2 A4/2E, Pizarro/ASCOD, Centauro, BMR/VEC, RG-31, the M-113 and M-109 families, Anibal and firefighting platforms).

COHEMO is also a supplier of generator sets and an official distributor for FG-Wilson. In addition, COHEMO repairs and assembles fixed and moving target ranges for calibres ranging from 5.56 mm to 12.70 mm, and develops armoured vehicle simulators.



#### COMPAÑÍA DE RECTIFICADOS DE CÓRDOBA, S.A.

C/ Fresadores, parc. 1, Avenida de la Torrecilla, s/n 14013 Córdoba Tel.: +34 957297355 www.rectificadoscoreco.com

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



#### HISPAMAST, S.L.

C/Estaño, 30 28510 Campo Real (Madrid) Tel.: +34 918733733 www.hispamast.com

Hispamast is a manufacturer of telescopic masts for the military sector, specializing 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.



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

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

Indite 2000, S.L. is a Spanish company that specializes in the manufacture, maintenance, repair, modernization and supply of optical systems for armoured and tactical vehicles in service in various armed forces around the world (Leopard 2 A4/2E, Pizarro/ASCOD, RG-31, M-113 and BMR/VEC).

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

Certifications: ISO 9001 Certifications: ISO 9001



#### INDUSTRIAS ZAMARBÚ, S.L.

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

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

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

It has solid national experience and recognized international prestige.

We offer innovative and functional solutions for every activity.

Industrias Zamarbú applies the latest technologies to its products and continually strives for constant improvement and customer satisfaction.



#### **PROTEC-FIRE, S.A.**

C/ Galileo Galilei, 25. Pol. Ind. La Garena 28806 Alcalá de Henares (Madrid) Tel.: +34 663019595 http://www.iturri.com/es/quienes-somos/grupoiturri/protec-fire

Bodywork for firefighting vehicles: urban, rural, forest, industrial and airport use. -Bodywork for special vehicles: health transport,

medical intensive care units, aviation refuelling trucks.

- Firefighting engineering.
- Emergency equipment.
- Design and manufacture of chassis for airport vehicles.
- Turnkey firefighting installations.



#### RALENTIZADORES Y TRANSFORMACIONES, S.A.

C/Brújula, 20 28850 Torrejón de Ardoz (Madrid) Tel.: +34 916766782 www.ryt.es

The company's main activity has always been the design, conversion and outfitting of industrial vehicles, at both national and European level, in order to offer customers a solution for their vehicle where this cannot be provided by standard production. This extensive business experience, together with a qualified staff that undergoes continuous professional development, has also enabled R&T to enter the railway sector, directly marketing a wide range of products from many major and prestigious European companies with a long tradition in this sector.



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

C/ Marconi, 403 45600 Talavera de la Reina (Toledo) Tel.: +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 these vehicles. Sale of spare parts and components.

Certifications: ISO 9001 PECAL / AQAP 2110 Certifications: ISO 9001 PECAL / AQAP 2110 ISO 45001

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



#### SOLINTAL LRD, S.A.

La Pelaya 10 28110 Algete (Madrid) Tel.: +34 916620429 www.solintal.es

#### Manufacture of metal structures.



### STAR DEFENCE LOGISTICS & ENGINEERING, S.L.

Calle C, 24 28938 Móstoles (Madrid) Tel.: +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 equipment and operating life of container:

- Container maintenance, various applications:
- Vehicle maintenance.
- Product maintenance.
- Maintenance of equipment for public works.

SASCorp Structural Aerospace Systems

#### STRUCTURAL AEROSPACE SYSTEMS, S.L.

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

SASCorp. a 100% Spanish-owned company. has the highest capacity supercomputing centre in Spain. It specializes in designing, developing and optimizing land systems and has extensive experience in designing and developing armoured vehicles. This has led SASCorp to collaborate with GDELS-SBS as a strategic partner in some of its most relevant projects (VCZAP Castor, VCI/C, ASCOD SV, ASCOD DK and the 155/52 SIAC). Design and simulation of protection systems for armoured vehicles (ballistic, mine and IED protection), unique capabilities that will be applied in the preparation of the numerical models of the VCR 8x8 to determine its performance against antitank mines and in IED incidents. Development, together with EM&E, of new remote weapon stations of different calibres, notably including the development of the new Guardian 30 weapon station for the VCR 8x8 Dragon programme.



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

Plataforma Logística Huesca PLHUS. Avenida Pebredo parcela 181-1-2-3 22197 Huesca Tel.: +34 974229832 www.uplifting.es

UP LIFTING VERTICAL, S.A. is a Spanish company specializing in the design and manufacture of heavy lifting machinery. It is a young and modern company founded in 2011, although its personnel have vast experience in the sector.

The development of the company is based on three cornerstones:

- 1.- Strong commitment to research, development and innovation.
- Use of the most advanced technological resources in the field of production; its factory is considered to be a pioneer at international level.
- 3.- 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.

Certifications: ISO 9001 PECAL / AQAP 2110 Certifications: ISO 9001 PECAL / AQAP 2110 ISO 14001 ISO 45001

Certifications: ISO 9001 Certifications: ISO 14001 ISO 9001



#### ZF SERVICES ESPAÑA, S.L.U.

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

Sale of spare parts, repair and maintenance of ZF Group products: 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 ISO 45001 PECAL / AQAP 2110







# Naval Sector

# abance

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

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

#### Naval

Military Vessels; Submarines; Police & Rescue Vessels; Systems & Equipment; Underwater Systems; Simulation; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Armament & Ammunition Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Radars; Electronic Warfare; C4ISR; ICT

Logistics, Ancillary & Services Field Logistics

Consulting & Engineering Consulting & Engineering Abance is a family business founded in 1994. Its main activity is to provide support in the functional design, detail design and production design of military ships and submarines, as well as the integration engineering of combat systems and control systems. Abance has a great capacity for adapting its engineering to the production means of each shipyard, providing technical assistance in the manufacturing, assembly and testing phases of the ship, always seeking to optimize delivery times and reduce the production cost of the product. Abance holds a stake in the share capital of Surcontrol, a company specialized in robotics, digitalization and control systems, with which it has complementarity to provide a complete integrated service to meet market demand.

#### Functional Engineering Support

- Support to functional project engineering.
- Basic structural engineering.
- Design of piping diagrams.
- Design of electrical diagrams.



Certifications: ISO 9001 ISO 27001
# Detail Engineering and Production Engineering

- Detail 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.
- Detailed design of structures.
- Detailed design of piping.
- Detailed design of HVAC.
- Detailed design of electrics.
- Detailed design of outfitting.
- Detailed design of electronics and instrumentation.
- Technical assistance and engineering coordination for the manufacturing, assembly and testing phases.



# Integration Engineering of Ship Combat System

- Integration engineering of ship combat system.
- 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 and test).



# Integration Engineering of Ship Control System

Abance has extensive experience in developing redundant and failsafe PLC-based systems for ship control, including sub-systems for generation, damage control, steering and propulsion, auxiliary equipment, emergencies and other modules. Its activities cover the entire life cycle, from design to on-board integration and testing, including calibration, training, configuration management, onboard or remote maintenance, etc. Abance also collaborates in the design and integration of unmanned surface vehicles (USV).



# **ILS Development**

- Logistics engineering analysis: FMECA, RCM, LORA & LCC, RAMS.
- Technical manuals for maintenance and operation (S1000D standard).
- Training.
- NATO cataloguing services.
- On-site and online technical support service.

### ABANCE INTEGRATED LOGISTIC SUPPORT (ILS) RAMS





### **ARESA SHIPYARD, S.L.**

# **Naval Sector**

Naval

Police & Rescue Vessels; Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares Since its creation in 1961, in Arenys de Mar (Barcelona, Spain), experience, innovation and added value have been the key words that define Aresa Shipyard. Experience in the construction of more than 1,200 ships, together with constant investment in R&D&i, has made our products a benchmark in the national and international shipbuilding sector.

Moll del Portinyol, s/n, edif. Aresa, zona portuaria

08350 Arenys de Mar (Barcelona)

Tel.: +34 937921300 www.gruparesaint.com

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# **Ocean Patrol Vessels**

At Aresa Shipyard, we design ocean patrol vessels to stay for long periods in international waters, from tropical to polar zones, accommodating large crews. Their main mission is surveillance, although they are equipped with fast intervention boats and multiple sensors that make this vessel the right product to counter piracy and smuggling.



Certifications: ISO 9001 ISO 27001

# **Offshore Patrol Vessels**

Our offshore patrol vessels are capable of maintaining security in a challenging marine environment. They are characterized by their flexible operation profile, protecting from the exclusive economic zone (EEZ) to coastal waters. Their robustness against criminal attacks and their high performance allow them to remain at sea for long periods of time.



# **Inshore Patrol Vessels**

Aresa Shipyard's inshore patrol vessels incorporate high speed and manoeuvrability, essential elements for the protection of a country's coastal waters, search and rescue operations, border surveillance, protection of the fishing fleet and assistance to small vessels.



### **Coastal Patrol Vessels**

At Aresa Shipyard, we design coastal patrol vessels whose main mission is the surveillance and protection of assets (critical infrastructures, ports, industrial sites, etc.), support missions and search and rescue.



# **Interceptor Vessels**

Our fast attack craft have been designed to provide the surprise factor by being agile, slender and, above all, extremely fast. They excel in private security missions, troop transport, support for underwater interventions, anti-drug missions, counter-terrorism and anti-piracy.



# **GONDÂN** S H I P B U I L D E R S

# **ASTILLEROS GONDÁN, S.A**

# **Naval Sector**

# Naval

Military Vessels; Police & Rescue 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.

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

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The flexibility to satisfy every owner's need is the key feature of the shipyard. Under this premise, the same excellence and efficiency is achieved both in the construction of a specific vessel for a specific shipowner and in the construction of standard vessels.

# **Ocean Patrol Vessel**

High performance patrol vessel designed to navigate in tropical waters and warm climates, carrying out a wide range of missions such as port defence and coastal surveillance, protection of logistic convoys or support to land operations.



### **CSOV Vessel**

This type of vessel is designed for the support and commissioning of offshore wind farms. They are low-emission vessels with a capacity for up to 120 persons on board. They are equipped with a motion-compensated crane and an integrated W2W system, including a technical personnel transfer gangway and a lift for 26 technicians to access the wind turbines.



### **Electric Ferry**

This is a 100% electric vessel dedicated to passenger transport in river and coastal environments. With a capacity of up to 600 passengers and propulsion entirely by electricity (batteries), it is environmentally sustainable, operates extremely silently and has no  $CO_2$  emissions.



## Coastal Patrol Vessel

These patrol boats, built of polyester, reinforced with fibreglass and Kevlar, are designed and equipped for sustained navigation, carrying out surveillance missions and the fight against drug trafficking and irregular immigration, as well as the protection of the marine environment.



# Oceanographic and Hydrographic Vessel

Gondán is an expert shipyard in the construction of silent scientific vessels whose deck equipment layout, laboratories and propulsion configuration has been specifically designed and built to comply with the ICES 209 CRR 209 standard, the most restrictive in terms of noise radiated below the surface. Thanks to their large number of cranes, winches and various deck equipment, these units can carry out multidisciplinary research work, both through direct observation and through the deployment of autonomous equipment and vehicles.





# 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

Camar Industrial, S.A. is a company that has been working closely with the Spanish Navy and the navies of Chile, Morocco and Peru for 35 years. It also collaborates with companies such as Navantia, Faba, Saes, Indra, Abengoa, etc. in the following specialized areas: engineering and integration, research (R&D&i), electricity, electronics, communications systems, navigation equipment, propulsion control, main batteries, explosion mechanics, etc. The company holds the highest certifications in quality, the environment, and NATO health and safetv.

Paraje Los Angostos, 44

Tel.: +34 968165122 www.camarsa.es

30395 La Aparecida, Cartagena (Murcia)

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Thirty-five years of experience in submarines and military vessels endorse Camar Industrial to face any challenges with the maximum guarantee of efficiency and quality.

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001

# Installation and Maintenance of Communications and Navigation Systems

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



# 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 in 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. Its warehouses store parts for a wide variety of compressors so that any repair work can be performed in the shortest possible time.





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Avenida Beiramar, 18 36208 Vigo (Pontevedra) Tel.: +34 986233000 www.freireshipyard.com

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

Naval

Military Vessels; Police & Rescue 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 1960s, 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 ships such as oceanographic, research and offshore vessels.

Certifications: ISO 14001 ISO 9001 ISO 45001

**Naval Sector** 

# Vessels

The shipyard currently specializes in the construction of commercial and military high-tech vessels with a high degree of sophistication and customization. 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 support vessels for the offshore industry, among others.





# DESARROLLO TÉCNICAS INDUSTRIALES DE GALICIA, S.A.

### Naval

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Logistics, Ancillary & Services Auxiliary Industry & Machinery; Other 82

C/ Condesa Cavalcantti, Pol. Ind. Rio do Pozo, Parcelas 2-7 15578 Valdoviño (A Coruña) Tel.: +34 981494000 www.detegasa.com

DETEGASA originated from 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.

# 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. The company holds the OMI MEPC 76 (40) type certificate, including the corresponding amendments, OMI MEPC 93 (45) and OMI MEPC 244 (66).



**Naval Sector** 

Certifications: ISO 9001 PECAL / AQAP 2110

# Hydrocarbon Separators

DETEGASA's oily water separators

have been designed to assure excellent performance in the most demanding conditions.
Furthermore, needs in terms of 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 Water Treatment Plants

means that we can provide various

solutions adapted to the specific needs of each project. We manage

including conventional biological

compact membrane bioreactors

and physical-chemical processes

projects with special requirements.

several different technologies,

activated sludge processes,

that are custom-designed for

Our experience over the years



### 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 ship's kitchen.



# **Control and Safety Systems**

The foam stations are able to produce a foam solution in seawater 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 (this percentage can be adapted as required).





# FLUIDMECÁNICA SUR, S.L.

Land

Vehicles; Systems & Equipment; Auxiliary Industry & Spares

# Naval

Systems & Equipment; Auxiliary Industry & Spares

Aerospace Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Auxiliary Industry & Spares

Electronics, Communications & ICT Radars; C4ISR; Surveillance & Security; Systems & Equipment

Logistics, Ancillary & Services Field Logistics; Auxiliary Industry & Machinery; Consumer Goods

# 84

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

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

- Shipyards.
- Defence.
- Factories and assembly lines. Fluidmecánica Sur's business

activity covers the following fields:

- Design.
- Oil hydraulics.
- Pneumatics and automatic systems.
- Naval machinery.
- Fishing machinery.
- Maintenance and repair of weapon systems and electronics systems.

- Design, 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. - Implementation and testing of
- systems on ships.
  - stems on snips.
- Supplies.

Certifications: ISO 14001 ISO 9001 ISO 45001 PECAL / AQAP 2110

# Maintenance of Mk 38 Guns

Mk 38 Mod. 2A Fluidmecánica has extensive experience in 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.
- Overhaul.



# Maintenance of Marine Infantry Amphibious Assault Vehicles

Fluidmecánica performs overhaul and rehabilitation works on AAV7A1 vehicles.

Description of rehabilitation works on Marine Infantry AAV7A1 vehicles:

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



# Maintenance of Marine Infantry Hummer Vehicles

Scheduled maintenance of Marine Infantry Hummer vehicles.

The work performed on Hummer vehicles is subject to a scheduled overhaul, whereby each vehicle is subject to a series of guidelines for inspection, repair and replacement of the different elements that make up the vehicle.

Fluidmecánica Sur, S.L. performs the complete reconstruction of the vehicle, starting with the chassis, or else the complete overhaul of the engine and subsequent bench testing.



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

S-80 submarine/hydraulic control units.

Control blocks of the hydraulic system of the bow, stern and rudder planes of the S-80 submarines. Fluidmecánica works in partnership with Avio Propulsione Aerospaziale on this project for design, development, manufacturing and installation. There are three 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 and material support and training of our personnel for the maintenance of the Rast systems of the F-100 Class *Álvaro de Bazán* and FFG Class *Santa María* frigates.





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

Land

Systems & Equipment

### Naval

Military Vessels; Submarines; Other Vessels; Systems & Equipment; Maintenance & Life Cycle Support

Armament & Ammunition Armament; Ammunition

Electronics, Communications & ICT Radars; C4ISR; Surveillance & Security Navantia is a leading national public company in the development of new technologies applied to the defence sector. Our wide range of services and our experience as integrators of complex systems allow us to collaborate with our customers in the search for the best solutions for their needs. The F-110 and S-80 programmes for the Spanish Navy, together with the application of 4.0 technologies to both our shipyards and our products are the basis on which we develop our role as a driving force in the Spanish defence sector, working collaboratively with the rest of the national industry.

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C/ Velázquez, 132 28006 Madrid Tel.: +34 913358400

www.navantia.es

Certifications: PECAL / AQAP 2110 PECAL / AQAP 2210 PECAL / AQAP 2310 ISO 3834 ISO 9001 UNE EN 9100 ISO 45001 ISO 14001 ISO 27001

# Shipbuilding

Navantia is a world reference in the military shipbuilding sector with a wide portfolio of surface ships and submarines, which places us at the forefront of technology in the international defence sector. It is worth highlighting our most innovative ongoing programmes: the S-80 series submarines and the new F-110 frigates.



# Innovation

SMART vessels: these include solutions aimed at environmental sustainability, new materials, high connectivity and monitoring, manufacturing in 5.0 factories, high standards of habitability and comfort, extensive automation and autonomy to operate with reduced crews.

Digital twin: virtual replica of a ship or system. This consists of a set of digital information in the form of algorithms that represent the performance of the ship or system and are connected to its physical counterpart. Through this connection, its response to certain situations can be analysed, learning how to improve its performance and operating efficiency.



# Training and Simulation

Navantia has wide experience in programmes that include training and simulation activities with full satisfaction of customer navies. The Navantis family of simulators, developed by Navantia, has been acquired by various navies. Navantia has built the Navantia Training Centre, an educational centre with the latest technologies where part of the training and simulation courses are developed.



# been unmanned vehicles, fire control, integrated communications, tia integrated bridge and integrated platform management. It manufactures weapons and is also

systems.

**Systems** 

Navantia designs and

manufactures systems such as

platform command and control,

an integrator of naval and land





Life Cycle Support

Navantia offers tailor-made life

cycle support service solutions,

supply chain and maintenance.

including engineering, production,

Solutions and services are tailored

to the individual and unique needs

of life cycle support is to maximize

of each customer. The objective



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

Naval

Military Vessels; Police & Rescue Vessels; Other Vessels; Maintenance & Life Cycle Support

The Rodman Group is the oldest company in its sector in Spain. Its experience, having delivered over 15,000 vessels, positions it as one of the leaders in the European shipbuilding industry. This position is based on a product with high standards of quality, safety seaworthiness and the most diversified product offering in the industry. The company's three divisions (steel vessels, professional sailing vessels and pleasure craft) have made it 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 Reinforced Polyester), specially designed for use in surveillance, intervention and support of defence and security operations. Rodman has specialized in this type of construction, in which it has achieved international prestige and recognition, and 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, and is able to build any vessel according to the most demanding requirements and performance specifications.



Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110

# Offshore Patrol and Interceptor Vessels

Vessels designed for intervention tasks, optimizing 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 interceptor patrol vessel model has been developed through a perfect combination of performance, reliability, construction quality and navigation characteristics.



### Catamarans

Rodman offers a wide range of professional boats designed for numerous uses for work at sea. Within this wide range of boats, we highlight the range of work catamarans, passenger catamarans, pilot and harbour work boats and the range of fishing boats.

All Rodman professional boats are designed and built with their owner's intended use in mind. In most cases, vessels are required 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 most.



# **Sports Boats**

Elegance in its purest form, this is the Rodman Muse 74, the flagship of the range. Destined to become a market reference, this boat offers and represents the best of the Rodman Muse range: style and sophistication combined with robustness, power and seaworthiness.





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

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

Naval

Submarine Systems; Auxiliary Industry & Spares; Simulation

Armament & Ammunition Ammunition

Electronics, Communications & ICT Surveillance & Security

Simulation Simulation SAES, specialized 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 customized, high-tech solutions in the military and civilian markets: Sonar and ASW systems for air and naval platforms. Underwater signatures measurement and control: acoustic, magnetic, electric, seismic and pressure. Multi-influence naval mines and mines for special operations. Classification systems and acoustic intelligence. Maritime surveillance and security. Simulation and training systems. Engineering, technical support, maintenance and training services. Efficiency, cost-effectiveness, reliability and modularity define 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 intelligence gathering 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 customizable to meet the specific requirements of 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 such 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 into any surveillance system.

# Measurement of Underwater Signatures – MIRS

The Multi-Influence Range System (MIRS) for surface vessels and submarines allows simultaneous measurement of acoustic, magnetic, electrical, pressure and seismic influences in a real scenario.

MIRS can also be used for the testing and calibration of demagnetization systems, ASG and MCM systems.

MIRS can be installed as a fixed measurement station or, thanks to its ease of deployment from an inflatable boat, positioned in any 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 neutralize threats. Its dimensions and light weight allow it to be used in long-distance operations and allow two units to be carried simultaneously. MILA complies with all NATO standards and has achieved excellent results in detonation tests against 12-mm, 24-mm and 36-mmthick marine steel targets.





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

Naval Systems & Equipment

Electronics, Communications & ICT C4ISR; Surveillance & Security Founded in 1991, Sainsel is the leading Spanish company in the area of combat systems equipment and tactical navigation systems (WECDIS). Solutions include combat system and platform consoles, tactical navigation systems (WECDIS), cartographic servers and integrated bridge systems.

Avenida de Castilla, 2, Edif. C

Tel.: +34 916781550 www.sainsel.es

28830 San Fernando de Henares (Madrid)

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Since 2000, Sainsel has also been present in the military aeronautics sector, supplying state-of-the-art equipment for mission and vision systems as well as for simulators. In the military market, Sainsel supplies ECDIS navigation systems and emergency management systems at sea to support SAR organizations. **Navigation Consoles** 

The WECDIS NAV/C2P console is a tactical navigation system that meets the requirements of NATO STANAG 4564 -"Warship Electronic Chart Display and information System", which provides safe navigation for both surface ships and submarines.

This system assists the navigation officer in the tasks of planning and tracking of courses, in addition to warfare operations, thanks to its functionality and the integration of data from the navigation sensors and the on-board combat system.



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

Naval Sector

# Integrated Bridge Consoles

The integrated bridge console of the Australian LHDs supplied 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, 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-STDs. Some of them have been integrated and functionally tested in combat systems testing facilities in the USA. More them 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

To equip the platform control systems of large warships Sainsel supplies consoles developed and tested according to the applicable MIL-STDs.

These consoles are operational on board important military vessels such as the F-100 frigates of the Spanish Navy and the 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 Tel.: +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 Navy. 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 Tel.: +34 915339200 www.ariesnaval.es

Aries Industrial y Naval Servicios, S.L.U. was founded to meet the demand for services in the naval 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. Aries provides equipment sales, technical consulting, naval engineering, maintenance, laser tracker measurements, assemblies, spare parts and technical assistance. Business areas:

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



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

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

Industrial and naval blasting. Paint specialists. Floor coverings. Passive fire protection. General polyester repairs.



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

Avenida Petrolíferas, s/n 35008 Las Palmas de Gran Canaria Tel.: +34 928479888 www.astican.es

Shipyard dedicated to naval repair and/ or conversion located in Puerto de la Luz. Equipped with a dry-docking system by means of a lifting platform with capacity for vessels up to 36,000 DWT. This system and the seven ample docking areas comprise a total capacity of 1,360 linear metres, providing almost permanent availability. There are also 900 linear metres of repair berths with draughts ranging from 8 to over 21 metres, thereby making it very convenient for afloat repairs. The shipyard is LRQA-certified in accordance with ISO 9001, 14001, 45000 and PECAL / AQAP 2120 and can carry out any type of naval repairs, such as mechanics, steel renewal, piping, surface treatment, propellers, electrics, electronics, outfitting, engines and other specialized work. Konsberg have a workshop in the shipyard.

Certifications: ISO 9001 ISO 45001 ISO 14001 ISO 166002 PECAL / AQAP 2110

Certifications: ISO 9001 Certifications: ISO 9001



# CARPINTERÍA NUESTRA SEÑORA DE LOURDES, S.L.

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

Carpintería Nuestra Señora de Lourdes, S.L. performs interior design for all types of vessels, furniture manufacturing, carpentry, installation works, repair, maintenance and ship supplies. The company also carries out turnkey outfitting and insulation works.



# COMPAÑÍA DE INSTRUMENTACIÓN Y CONTROL, S.L.

C/ San José Artesano, 1, portal 1 B, planta 1ª 28108 Alcobendas (Madrid) Tel.: +34 914595490 www.cic-systems.com

Design, manufacture, marketing, repair, maintenance and installation of marine communications equipment and systems for civil and military vessels. The company also offers control systems for services and operations, positioning, telemetry, identification, telecommunications and electronic equipment, as well as radio, cable and satellite communication equipment.



# FEJIMA, S.A.

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

FEJIMA began its activity in 1949 and, 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 focus 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 industries, ports and vessels.
- Comprehensive maintenance of electric power equipment.

The head office is in Cartagena, comprising over 9,000 m<sup>2</sup> of workshops in five buildings, equipped with everything necessary to carry out our work with full guarantees.



# FELIPE DEL ROSARIO HERNÁNDEZ, S.L.

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

We carry out naval and industrial mechanics work, equipment alignment, industrial lines and assemblies, boilermaking and piping in both the naval and industrial sectors. We also perform maintenance of hydraulic and pneumatic equipment, maintenance of ship deck machinery, stainless steel furniture and lining work, as well as machining work.

Certifications: ISO 14001 ISO 9001 ISO 45001

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



# FRIZONIA REFRIGERACIÓN Y CLIMATIZACIÓN, S.L.

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

FRIZONIA is a leading supplier of HVAC systems, offering air conditioning and refrigeration solutions worldwide.

It specializes in the development of turnkey projects (engineering, manufacturing, supply and assembly) for the marine, defence, offshore and industrial sectors.

The company has been offering services and products with a high level of know-how for more than 30 years, as an expert in HVAC+R and NBC systems.

FRIZONIA's work meets the highest quality standards, representing the latest developments in technology, innovation and R&D&i.

In addition, its internationalization strategy has been successful for years in different countries such as Colombia and Mexico, where it has subsidiaries.

# GABRIEL BALLESTER. S.L.

SOLUTED

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

Solutec, Gabriel Ballester, S.L. originated in the naval sector in 1979, thanks to the enthusiasm and extensive professional experience of its founder Mr. Gabriel Ballester López, starting a business that has continued to this day. It has gradually grown in other sectors such as industrial maintenance, mechanical assembly, boilermaking, ISO maritime container conversion and turnkey works, while maintaining its naval sector infrastructure. Solutec has adapted to market demand, expanding its facilities, machinery and human resources to the sectors it has joined. The company's facilities are located in an industrial estate in Cartagena.



# GADITANA DE CHORRO Y LIMPIEZA, S.L.

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

Surface preparation, application of anticorrosion treatments, painting and finishing treatments for tanks, ship hulls and new construction, erection of scaffolding for shipbuilding, ship repair, ship cleaning, ship boilermaking, metallization and passive fire protection.



# GAUZÓN IBÉRICA, S.L.

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

Gauzón Ibérica is a company headquartered in Ferrol since 1992. With more than 20 years of experience in the manufacture, marketing and commercial representation of products for the military and civil 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 navy, freight forwarders and other companies not related to the shipbuilding industry.

Certifications: ISO 45001 ISO 14001 ISO 9001

PECAL / AQAP 2110

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



## INDUSTRIAL DE ACABADOS, S.A.

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

INDASA is a company that is been highly specialized in the treatment of metal structures and the application of coatings since 1968. It has a team of highly qualified professionals and the necessary equipment and infrastructure to quickly and effectively respond to customer requirements.

Its work focuses on the naval and industrial sectors and it is 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 the Netherlands, France, Brazil, etc.

# INDUSTRIAS HIDRÁULICAS ROSPA, S.L.U.

DUSTRIAS HIDRAULICAS

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

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



# **MOTORAZA, S.L.**

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

A company founded in 1995, with extensive experience in naval repairs and works carried out for major Spanish naval companies, including Navantia and Acciona. We perform ship repairs, especially on engines, compressors, pumps, pipes, and other hydraulic and pneumatic components.



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

Avenida Bruselas, 147, A-6 30353 Cartagena (Murcia) Tel.: +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 ten operators, eight of whom are approved according to NORSOK M-501, "Paint Applicator Qualification Course", including one senior technician who specializes 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 customers' ever-increasing demands. While complying with these guidelines, the most appropriate solutions are applied in each situation.

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001

Certifications: ISO 9001 ISO 14001 ISO 45001 Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001



# QUIMDUNAVAL, S.L.

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

A business located in Cartagena, with over 35 years of experience engaged in naval, industrial and urban cleaning and maintenance. Management, transport and pre-treatment of oily waste.



# **RODRITOL, S.L.**

Avenida de las Petrolíferas, s/n 35008 Las Palmas de Gran Canaria Tel.: +34 928460090 www.rodritol.com

- General electrical installations.
- Repair and maintenance of ships.
- Heating and cooling installations.
- Technical engineering services.
- Manufacture, maintenance and repair of electrical panels.
- Atex engine maintenance



## SÁNCHEZ SUR, S.L.

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

Sánchez Sur, S.L. is engaged and specialized in naval repairs and supplies and the maintenance of electronic and communications systems. We ensure that our main customer, Spain's Ministry of Defence, receives the maximum possible effectiveness, efficiency and quality in the services rendered.



# SEAPLACE, S.L.

C/ Bolivia 5, bajo 28016 Madrid Tel.: +34 914585119 www.seaplace.es

Seaplace was established in 1980 as an engineering and consulting firm to provide services in the shipbuilding and offshore industry. Since then, and to date, we have successfully worked on numerous projects within the naval and civil industry, obtaining innovative solutions with high added value for all types of problems, achieving an excellent reputation, both nationally and internationally. This success is mainly because Seaplace staff are highly qualified in project management and coordination and have extensive knowledge of design and subsequent development, which, together with experience and R&D&i tasks, puts us at the forefront of naval engineering.

Certifications: ISO 14001 ISO 9001 ISO 45001 Certifications: ISO 14001 ISO 9001 ISO 45001 Certifications: PECAL / AQAP 2110 ISO 14001 ISO 45001 ISO 9001

Certifications: ISO 9001



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

C/ Real, 37, Los Barreros 30310 Cartagena (Murcia) Tel.: +34 868065994

www.tphispania.com

Techno Pro Hispania, as a part of the FIVA Group, is a company that began its business activity 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 technical offices:

- Conceptual and contractual engineering
- Basic and classification engineeringProduction engineering
- Production engineer
   Detail angineering
- Detail engineering
- Integrated logistic support (ILS) life cycle management:
  - Configuration
  - Logistic support analysis (LSA)
  - Logistic support analysis record (LSAR)
  - Reliability and maintainability
  - Reliability, availability and maintainability analysis (RAM)
  - Reliability-centred maintenance (RCM)
  - Failure mode and effects analysis (FMEA)
  - NATO cataloguing
  - Documentation (electronic, technical, technical manuals, test documentation management, project documentation management)

### Training

- Project management.

Certifications: ISO 9001, ISO 14001, ISO 45001 Certifications: ISO 9001 ISO 14001



# TÉCNICAS CARTAGENA, S.L.

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

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



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

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

Since it was founded, and after a long trajectory in the specialities of industrial refrigeration, combustion engines, hydraulics and pneumatics, Tincasur Sur, S.L. has been expanding its horizons and goals in order to satisfy the needs of its customers. Framed within the industrial, naval and offshore sectors, the commitment to turn Tincasur Sur, S.L. into a dynamic company has borne fruit. In the field of welding and boilermaking, mechanics, hydraulics and pneumatics, laser alignments, on-site machining, etc., its customers include Navantia, Dragados Off Shore, Acciona, Marina Barcelona 92, Endesa Generación, and others. All of this allows the company to offer a complete service to meet the needs of the industrial, naval and offshore sectors

Certifications: ISO 14001 ISO 9001 ISO 45001 PECAL / AQAP 2110 ISO 3834





# Aerospace Sector



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

Aerospace **Aerial Systems & Equipment**  Aciturri is a Tier 1 aeronautical company specializing in the design, manufacture and assembly of hightech aerostructures and engine components, thereby offering the market complete solutions in high-performance technologies, machining, joint technologies and special processes.

Pol. Ind. de Bayas, C/ Ayuelas, 22

09200 Miranda de Ebro (Burgos)

Tel.: +34 947049622 www.aciturri.com

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# A400M Flaps & Vanes

Product definition. Metal and composite manufacture. Assembly. Certification and after-sales. Platform: A400M Category: Mobile surface Customer: Airbus Scope: Design and manufacture Industrial status: Full rate



ISO 14001

ISO 9001

ISO 45001



**Aerospace Sector** 

# A400M Sponson Landing Gear Traps

Metal manufacture and assembly. Platform: A400M Category: Fairing Customer: Daher Scope: Build to print Industrial status: Full rate



# KC390 WFF Wing-Fuselage Fairing

Product definition. Metal and composite manufacture. Assembly. Certification and after-sales. Platform: KC390 Category: Fairing Customer: Embraer Scope: Design and manufacture Industrial status: First deliveries.



# **NH90 Sponson and Tail Fin**

Metal and composite manufacture and assembly. Platform: NH90 Category: Empennage Customer: GKN FOKKER Scope: Build to print Industrial status: Full rate



# A400M Ras Wedge Cargo Ramp

Metal manufacture and assembly. Platform: A400M Category: Fuselage Customer: Airbus D&S Scope: Build to print Industrial status: Full rate





Aerospace & Aviation

# **AERTEC SOLUTIONS, S.L**

Aerospace RPAS; Aerial Systems & Equipment

Armament & Ammunition Ammunition; Missiles

Electronics, Communications & ICT C4ISR

Logistics, Ancillary & Services Infrastructures AERTEC Solutions is a 100% Spanish-owned engineering and technology firm specialized in aerospace and defence, with 20 years of experience. It has a workforce of over 700 professionals and is present in more than 40 countries. AERTEC designs aerospace systems for aircraft, unmanned aerial platforms and high-dynamic vehicles, for both civilian and military use.

Avenida Juan López de Peñalver, 17

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29590 Málaga

Tel.: +34 902060100 www.aertecsolutions.com

The company has 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 feature the integration of micromissiles.

Certifications: ISO 14001 ISO 45001 ISO 9001 UNE EN 9100

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

Fixed wing RPAS and 75 kg MTOW. 12 hours maximum flight time. 12 kg load capacity. Up to 150 km operating range. Integrates different types of optional sensors and functionalities, including the detection and automatic tracking of targets with gyro-stabilized 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.



**Aerospace Sector** 

# Fixed Wing and Rotary Wing Unmanned Aerial Vehicles. 25 kg MTOW

Fixed wing RPAS and 25 kg MTOW. 6 hours maximum flight time. 5 kg load capacity. Up to 150 km operating range. Integrates different types of optional sensors and functionalities, including the detection and automatic tracking of targets with gyro-stabilized 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. Includes an actual autopilot embedded as hardware in the loop (HIL), which makes the simulation highly realistic. Can be customized with regard to the number of working stations and functionalities.



### Weapon Systems

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



### SAL, Intermediate and IR Terminal Guidance Systems

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





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

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

Aerospace Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares Aernnova is a leading aerostructures company specializing in the design and manufacture of aerostructures and components for major OEMs. In particular, it specializes in the production of composite material parts, and metal components for aircraft and other vehicles.

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

First flare dispenser designed and manufactured in composite material.



Certifications: ISO 9001 PECAL / AQAP 2110 UNE EN 9100 UNE EN 9120 ISO 14001 PECAL / AQAP 2310 UNE EN 9110

# Fuselage Design and Development

Sikorsky S-92 helicopter rear fuselage with and without hinged section on the closing frame for naval versions.



# Production Parts Material Autoclave

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



# Wing Design and Manufacture

Design and production of 100 kg MTOW UAV. Wing and airframe are 100% composite material.



# Landing Gear Door Production

Composite landing gear doors and similar structures, such as missile containers, critical for their weight and mechanical properties.





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

Aerospace

Aircraft; RPAS; Aerial Systems & Equipment; Simulation; Satellites; Ground Segment; Satellite Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares.

Electronics, Communications & ICT Electronic Warfare; Systems & Equipment; Simulation

Consulting & Engineering Consulting & Engineering 108

Avenida <mark>de Aragón, 404</mark> 28022 Madrid Tel.: +34 915857000 www.airbusdefenceandspace.com

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 aerospace and defence industry. It is the second-largest company in the space industry in the world and 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 PERAM 21 (MILITARY DESIGN ORGANIZATION) UNE EN 9100 UNE EN 9110 EASA PECAL / AQAP 2310

# A400M Aircraft

The A400M is a military transport aircraft designed to meet the needs of all 21<sup>st</sup>-century armed forces. It is able to fly higher, faster and further than its predecessors, retaining its high manoeuvrability and capabilities at low speeds in airfields with short, soft or complex runways. It is perfect for both tactical missions and strategic/ logistic missions.


#### EF2000 Aircraft

The Eurofighter Typhoon is the most advanced new-generation multi-role combat aircraft in the market. Nine countries (Germany, United Kingdom, Italy, Spain, Austria, Saudi Arabia, Oman, Qatar and Kuwait) have already ordered the Eurofighter. With 681 aircraft under contract and 574 delivered, the Eurofighter is currently the largest military procurement programme in Europe. Its cuttingedge 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/palletized cargo, in addition to casualty evacuation, communications and logistic tasks and certified airdropping capability. It can carry up to 9 tonnes of cargo or up to 71 people.

#### **CN-235 Aircraft**

The CN-235 is the most economical aircraft in the field of light and medium aircraft for the performance of 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/palletized cargo, in addition to casualty evacuation, communications and logistic tasks and certified airdropping capability. It can carry up to 6 tonnes of cargo or up to 51 people.



In-flight Refuelling Aircraft

new-generation strategic tanker/

transport aircraft that is currently

MRTT is offered with a choice of

such as the advanced Airbus

fuselage refuelling unit.

Military Aerial Refuelling Boom

System (ARBS), a pair of under-

wing hose and drogue pods, or a

available and in service. The A330

proven air-to-air refuelling systems,

The A330 MRTT is the only







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# AIRBUS

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

#### AIRBUS HELICOPTERS ESPAÑA, S.A.U.

Electronics, Communications & ICT ICT

#### Aerospace

Helicopters; Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares Airbus Helicopters España incorporates into a single Spanish company all helicopter activities, from new product development to in-service aircraft support, with full responsibility for marketing, programme management and the manufacture and assembly of aerostructures and certain helicopter models.

#### **NH90 Helicopters**

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



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

#### Systems Software Design, Development and Maintenance

Design, development and maintenance of embedded software and the integration of mission equipment for helicopters, including rigs for the NH90 and Tiger, flight tests and certification. Manufacture of aeronautical structures such as rear fuselages for all Airbus Helicopters models and the NH90 front fuselage. 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.



## AIRTIFICIAL

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

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

Aerospace

RPAS; Aerial Systems & Equipment; Auxiliary Industry & Spares

Electronics, Communications & ICT Radars; Electronic Warfare; C4ISR; Surveillance & Security; Systems & Equipment; Simulation

Logistics, Ancillary & Services Auxiliary Industry & Machinery Airtificial A&D is a company that offers complete, technological and flexible solutions for a wide variety of sectors including aeronautics and defence. Airtificial A&D has extensive experience in the design, development, prototyping, industrialization and mass production of high valueadded devices and elements. including composite parts and structures, high criticality electronic devices, flight control sticks, electrical systems, test means, and electro-mechanical and robotic solutions, making Airtificial A&D an ideal partner to work with in the development of high-tech solutions.

Certifications: ISO 9001

PECAL / AQAP 2110 UNE EN 9100 ISO 14001

PECAL / AQAP 2210 ISO 45001

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#### **Composite Material Structures**

Design and manufacture of parts and structures in composite materials such as carbon fibre and fiberglass. Our capabilities include the complete design, FEM analysis, industrialization, production and verification of structures up to 10 metres. We cover different manufacturing processes (hand lay-up, SMC, PCM, resin infusion), which allow us to adapt to the needs of our customers with regard to weight, geometry, rate and cost.

Moreover, Airtificial guides its customers in the process of using composite materials for the first time by means of structural redesign projects, improvement analysis and cost optimization.



#### **Electronic Devices**

Development of complex electronics systems for aeronautical and military applications. These systems include ECUs for actuators, signal conditioning modules and sensor measurement units, cockpit control units, etc. Airtificial A&D has experience in the development of hardware and software according to RTCA/DO-254 and RTCA/DO-178 up to DAL A, including safetycritical devices.



#### **Flight Control Sticks**

Development of active sticks for flight control and operations for aircraft. Our sticks are equipped with redundant motors and sensors to meet the reliability requirements for critical applications. Thanks to their control electronics, they allow for the configuration of force levels and dynamic characteristics. In addition, these devices have different operating modes including active mode, passive mode and safe mode in case of failure or jamming. The active mode, for example, allows them to be used in virtual mechanical link mode.



#### **Automation and Robotics**

Our experience in the implementation, execution and optimization of production processes in the aerospace and defence sector makes Airtificial an ideal partner for the automation of processes through the development of complete robotic solutions. These include the study of the current operational process to be improved, the (measurable) objectives to be achieved, the selection and supply of the robot (Cartesian, robotic arm, humanoid, etc.) that best suits the purpose of the application, the software development of the functionality, the mechanical adaptation of the effectors, the functional tests and commissioning at the customer's facilities.



#### **Ground Test Systems**

Development of a wide range of solutions needed for the functional validation of vehicles and aircraft, such as test benches, interconnection harnesses, instrumentation and control racks or tooling. Airtificial A&D has more than 20 years of experience in the development of these types of solutions for the military and other industrial sectors.





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

Aerospace RPAS; Aerial Systems & Equipment; Maintenance & Life Cycle Support

for aeronautical and aerospace applications such as landing gear, flight controls, doors and ramps. CESA provides maintenance support and after-sales service to defence and commercial operators. Part of the Héroux-Devtek group since 2018, the company participates in next-generation European & international programmes (Eurofighter, A400M, KF-X and T625) and in military and commercial programmes (C-101, C-212, CN-235, C-295, A400M, A330MRTT, A330 /340, A330-200F, A340, A380, A350, Hürkus, KC-390, and S-92) Due to its engineering capabilities, CESA is the Centre of Excellence in Actuation Systems of the Héroux-Devtek group, the world's thirdlargest manufacturer of landing gear.

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

With more than thirty years of

company specialized in the design, development, and production of complex hydraulic

experience, CESA is a Spanish

and electromechanical systems

Certifications: ISO 9001 PECAL / AQAP 2110 UNE EN 9100 PECAL / AQAP 2310 UNE EN 9110 ISO 14001 PRI-NAPCAD PERAM 145 (MAINTENANCE ORGANIZATION)

#### **Flight Control Systems**

CESA has proven experience in the development of flight controls, such as the foreplane actuator (primary flight control), developed and manufactured for the Eurofighter. More recently, CESA has developed servohydraulic flight control actuators for the C-295 in a first phase, and electromechanical ones in a second phase, in the framework of the CleanSky2 programme



#### Actuation Systems

CESA has been nominated the Centre of Excellence of the Héroux-Devtek group for hydraulic and electromechanical actuation systems.

CESA has developed the actuation systems for the ramp and the cargo doors of C-212, CN-235, C-295 and A400M aircraft, products that it continues to produce and maintain today. CESA has recently developed several complex electromechanical actuation components for load handling on the A400M. These include the "Crane Mobile Equipment" crane capable of moving 5 tonne loads or the EPES/tow plate tactical load release system.

#### **Actuation Systems - ARBS**

CESA supplies two key electromechanical systems for the ADS ARBS-MRTT in-flight refuelling programme known as Tail Boom. This system consists of the hoisting motor and the system in charge of extending and retracting the beam (ERA). CESA participates in several R&D&i programmes of national or European funding in projects for the development of electromechanical actuation systems related to flight controls and cargo doors.



#### **MRO and Services**

The development and manufacturing capabilities of CESA in Spain, located in Getafe and Seville, are complemented by an important fleet maintenance activity, also called MRO and Services.

CESA provides support to its military and civilian customers in actuation systems, landing gear and other safety-critical flight systems for all the products it designs, from the C-212 to the KF21, Falcon 10X or Airbus A350. In addition to the tasks performed in its own workshops, CESA performs maintenance works directly on aircraft, at the operators' operational bases.



#### **Landing Gears**

CESA has the capability to design and manufacture complete landing gears, including hydraulic and electromechanical actuation systems and landing gear control and sequencing electronics. CESA manufactures landing gears for ADS for the C-212, CN-235 and C-295 aircraft. For landing gear actuation systems, CESA develops, produces and maintains hydraulic and electromechanical actuators for extension/retraction. landing gear locking hooks and auxiliary gear steering systems.





## **Airbus Crisa**

P.T.M. c/ Torres Quevedo, 9 28760 Tres Cantos (Madrid) Tel.: +34 918068600 www.crisa.airbus.com

Airbus Crisa is a Spanish company

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

Aerospace

Satellites; Satellite Services; Ground Segment; Satellite Services & Equipment

Logistics, Ancillary & Services Infrastructures founded in 1985, which operates within the Space Systems organization of Airbus Defence and Space, employing more than 500 highly gualified people. Airbus Crisa designs and produces electronic equipment, systems and software for space applications covering mainly satellites, launchers, orbital infrastructure and space transportation vehicles. Airbus Crisa enjoys a strong reputation as a high-tech company in the space sector and in the ground segment, in both civilian and defence applications, contributing to most national and European Space Agency programmes. Airbus Crisa is also active in the international commercial market, supplying solutions to major space contractors worldwide.

Certifications: ISO 14001 UNE EN 9100 ISO 9001

#### **Power Electronics Equipment**

Airbus Crisa's power electronics units play a key role in the faulttolerant power management of spacecraft, as well as in the protected distribution of power to the spacecraft's platform and payload equipment. Over the last two decades, many spacecraft have been equipped with our power conditioning units, covering a huge variety of scenarios in Earth observation, scientific, telecommunications or interplanetary exploration missions.



#### **On Board Processing**

Data processing and control units have been a key product of Airbus Crisa since its creation more than 36 years ago.

Most of the European Space Agency missions integrate electronic data processing and control units designed and produced by Airbus Crisa. From the fully customized equipment initially supplied, the current product policy aims at standardization, with the objective of maximizing reuse and reducing the development cycle.



#### Actuator Control

Airbus Crisa has a broad portfolio of actuator control solutions used in space systems, from temperature control mechanisms to pyrotechnic electronics and valve actuation.

Our mechanism control products include electronics for a wide variety of applications, such as gyroscopes, filter wheels or scanning mechanisms. We also supply thermal control products for all types of spacecraft. Airbus Crisa offers solutions for platforms and instruments, including thermal control units such as cryogenic cooling electronics.



#### Launcher Electronics

Independent access to space is one of Europe's top priorities. This access must be cost efficient, taking into account the increasing competitiveness of this market. To meet this challenge, and in support of the European strategy, Airbus Crisa has developed stateof-the-art sustainable electronics for launchers such as Ariane 5 or even for the most recent Ariane 6 and Vega-C launchers. Our solutions cover key functions such as launcher control, communications and on-board



power management.

### System Engineering and Ground Segment

Thanks to extensive experience in different disciplines acquired over the years, Airbus Crisa provides System Engineering services for scientific, Earth observation and telecommunications satellite missions.

Airbus Crisa also performs Ground Segment activities. In this field, our experience includes the design of network architecture for secure communications, as well as the implementation, operation and maintenance of satellite control and operation centres. Airbus Crisa has participated in several programmes such as Helios I and II, Pleiades, Seosat-Ingenio or CSO (optical space component).



# EINSA

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Ctra. M-300, km 29 28802 Alcalá de Henares (Madrid) Tel.: +34 918809000 www.einsa.es

#### 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 & Ammunition Missiles; 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 civilian ground support equipment.

Since its creation, EINSA has maintained a continuous improvement policy based on its engineering experience, its expertise and its core competencies in numerous areas such as mechanics, hydraulics, electronics, explosive atmosphere protection, EMC/EMI protection, etc. This is reflected in the design and development of more than 230 civilian and military vehicles and equipment.

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

#### NETON Special Operations Light Vehicle

The NETON is an ultra-fast air transportable all-terrain vehicle designed *ad hoc* for the many and varied missions that may be carried out by the Special Forces. EINSA has supplied 24 of these vehicles to the Spanish Armed Forces, such as the new Special Operations Light Vehicle (VLOE) of the Special Operations Command (MOE).



#### **VAP External Weapon Loader**

EINSA's external weapon loaders have been designed to transport, position, load and unload a wide range of external loads of up to 6,000 lbs, including Storm Shadow and Taurus cruise missiles, on all combat aircraft in service today, taking into account weapon alignment, pylon configuration and ergonomics.

In addition, EINSA is the only company in the world capable of supplying external weapon loaders equipped with the latest technologies in internal combustion engine protection for operation in explosive atmospheres.



#### FALCATA Mechanical Mule

The FALCATA "mechanical mule" is a highly mobile, all-terrain, multipurpose, light, airportable vehicle designed to meet the tactical and logistical needs of today's armies. This vehicle can also be used as a support platform for more specialized systems such as transmission, anti-tank, tactical reconnaissance, mobile firing position, casualty evacuation, firefighting, troop transport, towing, etc.



#### **Aircraft Tow Tractor**

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



## TET-30 Self-propelled Lifting Platform

The MC/TET-30 self-propelled air transportable platform is a rapidly deployable vehicle with a load capacity of up to 30,000 lbs, designed for loading and unloading palletized units onto the following military transport aircraft: Hercules C-130, Transall C-160, Hercules C-141, Hercules L-400, CASA-212, CASA CN-235, etc. It is also suitable for servicing the holds of conventional aircraft (B707, KC-135, B 737/300 and B767/300ER types) with a working height of up to 3.5 m. At the flick of a switch, the driver's seat is automatically side shifted on the loading platform, giving it a total width of 2.60 m.





#### HISDESAT SERVICIOS ESTRATÉGICOS, S.A.

Aerospace Satellites; Satellite Services; Ground Segment; Auxiliary Industry & Spares Hisdesat Servicios Estratégicos, S.A. was founded in 2001 as a government satellite services operator to act primarily in the areas of defence, security, intelligence and foreign affairs. Since 2005, Hisdesat has provided secure satellite communications. satellite Earth observation and satellite maritime traffic information (AIS) services to government agencies in different countries. Hisdesat stands out for being a company of high strategic value for the Spanish Government, Spain's Ministry of Defence being its reference shareholder, with advanced satellite programmes that have resulted in the generation of significant industrial returns for the national space sector since its creation.

Paseo de la Castellana, 149

28046 Madrid Tel.: +34 914490149 www.hisdesat.es

Certifications: ISO 9001 ISO 14001 ISO 27001

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#### **Satellite Communications**

Hisdesat has an innovative generation of satellites that provides more flexibility and security to satellite communications in the military X and Ka bands, providing ideal solutions for exclusively governmental customers, both in the military and civilian spheres. The Spainsat NG I & II satellites will replace the current Spainsat and XTAR-EUR satellites in 2024 and 2025, respectively. They will be able to provide secure satellite communications with maximum protection against interference or other threats, including a high-altitude nuclear event, with maximum flexibility thanks to their real-time software-defined payload.



#### **Earth Observation**

Hisdesat is the owner and operator of the PAZ satellite, with a very high-resolution synthetic aperture radar (SAR), which, since 2018, has been providing accurate information for multiple applications.

Its capabilities allow it to take more than 100 images per day with a resolution of up to 25 centimetres, both day and night and regardless of weather conditions, covering an area of more than 300,000 km<sup>2</sup> daily. PAZ provides Earth observation capabilities for multiple purposes such as border control, intelligence, environmental surveillance, military operations and cartography.



#### Vessel Traffic Automatic Identification System (AIS)

The satellite-based vessel traffic automatic identification system (AIS) is offered through a partnership agreement between Hisdesat and Spire. The 60 satellites of this constellation receive the AIS signals of more than 100,000 ships in real time and send this data to ground stations. This constellation of satellites gives real-time global maritime traffic status, providing details on vessel identity, location, route, speed, navigation status, destination, cargo, energy consumption, etc. This information is invaluable to government and maritime authorities.





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

#### ITP AERO, S.A.

Aerospace

Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares in the aircraft engine market and is currently the ninth largest aircraft engine and components company in the world in terms of sales. 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 and development; manufacturing and casting; assembly; and testing and maintenance of aeronautical engines and industrial turbines.

Certifications: PECAL / AQAP 2110

PECAL / AQAP 2310

ISO 14001 ISO 9001 UNE EN 9100 UNE EN 9110 EASA

ITP is a global leader in its segment

#### **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.



#### Diverse Components for Aircraft Turbines/Engines

- Vanes: ITP Aero manufactures turbine vanes (and vane segments) for commercial and defence jet engines, in addition to industrial gas turbines.
- Compressor rotors: ITP Aero specializes in a wide range of complex compressor rotors.
- Turbine discs and shafts: ITP Aero produces turbine discs for a variety of civilian and military applications.
- Complex fabricated structures: ITP Aero offers 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 the engine. 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 Nozzle**

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 control of the throat and outer areas of the nozzle.



#### **Aircraft Turbines and Engines**

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





#### LANGA INDUSTRIAL, S.A.

**Aerospace Sector** 

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 world reference in the design and manufacture of air support ground equipment for the civil and defence sector, with a wide range of equipment for both the maintenance and handling of most of today's aircraft.

C/ Dehesa de Mari Martín, 31 28600 Navalcarnero (Madrid)

Tel.: +34 918101030 www.langaindustrial.es

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#### Aircraft Ground Support Equipment (AGE)

Langa Industrial is one of the world's leading manufacturers in the design and manufacture of aircraft ground support equipment, manufacturing a wide range for most existing aircraft and helicopters.

The company manufactures hydraulic jacks, platforms, ladders, drag bars, transport/supply trolleys, weighing systems, de-icing systems, as well as general tooling and custom developments for specific customer needs.



Certifications: ISO 9001 PECAL / AQAP 2110

#### **BMR/TOA VCZ Spare Parts**

Langa Industrial designs and manufactures hydraulic systems and implements for military armoured vehicles, such as: thrust shovels, stabilizer blades and hydraulic cylinders in general. It also manufactures lifting systems for the maintenance of these vehicles.



#### **Logistic Containers**

The FPU air transportable tactical logistic storage system, based on individual modules of interchangeable drawers and compartments 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 & Ammunition Missiles; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Radars; Systems & Equipment; Maintenance & Life Cycle Support 126

Avenida de Zugazarte, 56 48930 Getxo (Vizcaya) Tel.: +34 944817500 www.aeroespacial.sener

SENER Aeroespacial has been a leading supplier of highperformance systems and subsystems for space, defence and science for more than 50 years. developing its own high addedvalue technology products. It is a leader in guidance, navigation and control systems, actuation and orientation systems, and communications, COMINT, optics, ATC and avionics systems. It is involved in the main programmes of the ESA and NASA space agencies. It is part of the SATNUS consortium, which it leads in Spain, and which coordinates all the activities of the "Remote Carriers Pillar" of the NGWS/FCAS programme. It is also part of the recently created SMS consortium. SENER Aeroespacial has production centres in Madrid, Basque Country and Catalonia. The company is part of the SENER engineering and technology group, founded in 1956. which has 2,700 professionals in offices on four continents.

Certifications: ISO 14001 ISO 9001 UNE EN 9100 ISO 45001 PECAL / AQAP 2110 PECAL / AQAP 2210 PECAL / AQAP 2310 PERAM 21 (MILITARY DESIGN ORGANIZATION) EFR 1000-1

#### 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 reference company 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).



#### **CAS Missiles**

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 EF-18 and it is the main contractor for the Taurus KEPD 350, consequently providing assistance during integration of the missile on the EF-18. In 2011, the Spanish Navy

awarded SENER the life extension programme for 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 (micropositioners, scanners, filter wheels, shutters, flip-flop and calibration mechanisms) and ground support equipment.





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

Aerospace RPAS that designs, produces and operates unmanned aerial, land and naval systems. In its over 28 years of activity, SCR has sold over 1,000 platforms and provided over 3,500 services for national 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.

SCR is a leading Spanish company

Certifications: ISO 9001 ISO 14001 UNE EN 9100

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C/ Isla de la Palma, 36

Tel.: +34 916518227 www.scrdrones.com

28703 San Sebastián de los Reyes (Madrid)

#### Air, Naval and Ground Targets

SCR is a global reference 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. The product portfolio includes the SCRAB and ALBA families of airborne targets, the RRS-1 ground target and the SPAYK range of nautical targets.



#### SCRAB III Turbojet Target Drone

SCRAB III is an aerial target designed and developed based on the needs detected by SCR during its extensive experience in operations to obtain a high subsonic speed and long-range target drone.

This target drone has been designed for military training operations with long-range air-defence systems. SCRAB III is turbine powered to achieve speeds of up to 390 knots and incorporates an autopilot for fully autonomous, accurate and reliable mission execution from launch to recovery.



#### SCRAB II Turbojet Target Drone

SCRAB-II is so easy to operate that it is ideal for using in all types of locations, including on board ships for open sea exercises, thanks to the IP-67 protection of its internal components. It is equipped with propulsion equipment consisting of twin turbojets operated autonomously by embedded electronics systems. SCRAB-II is used for missions that require different types of long-range missiles.



#### SPAYK I - USV Naval Target System

USV with high manoeuvrability, speed and autonomy. Autonomous navigation by autopilot system. Dimensions: 3 metres long and 1.2 metres wide. Weight: 120 kg. Power plant: 90 hp 4-stroke petrol engine (30 litres). Maximum speed: 35 knots. Endurance: 3 hours. System is able to tow 110 kg subtarget.



#### **Atlantic RPAS**

Atlantic is a medium range and high performance RPAS manufactured with composite materials and specially designed for ISTAR (intelligence, surveillance, target acquisition, and reconnaissance) missions. Thanks to its simplicity and reliability, it can be operated by just two people. Atlantic was recently acquired by Spain's Ministry of Defence after numerous evaluation campaigns with the Spanish Army.





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C/ Julián Camarillo, 4, edif. B, 4.º D 28037 Madrid Tel.: +34 915533865 www.telespazio.es

#### **TELESPAZIO IBÉRICA, S.L.U.**

Aerospace Satellite Services; Ground Segment

Electronics, Communications & ICT

With cartographic roots and more than 20 years of experience in territorial solutions for large corporations, Telespazio Ibérica is a reference company at European level in the sector of new technologies applied to territory. A global approach to the management of territorial assets allows Telespazio Ibérica to offer services that cover the complete cycle from the generation of cartographic data using the latest technologies to the development of IT solutions combining Geographic Information Systems (GIS), telecommunications and mobile devices. Telespazio Ibérica offers specific solutions in technologically demanding markets such as: Energy and Utilities, Telecommunications, Public Administrations, Defence, Transportation, Emergencies, Insurance, Banking and large corporations.

#### Cartographic Generation on a Scale of 1:10.000 and 1:50.000 using Satellite Imagery

Cartography: Mapping allows us to visualize a territory through geographic maps that contain layers or sources of information on the territorial elements. This mapping can be derived from orthophotos, generating 2D cartography, or 3D if we add height information to each element or layer.



Certifications: ISO 14001 ISO 9001

#### Analysis and Development of Satellite Navigation Applications

Offers expert consultancy on the definition and development of GNSS applications, based on our extended experience in GNSS and in the analysis of key sectors, mainly related to the introduction of both EGNOS and Galileo in market segments such as roads, drones, aviation, maritime, rail and agriculture, among others. To carry out these activities, Telespazio Ibérica relies on the following: In-depth knowledge of EGNOS and Galileo systems: technical characteristics, detailed architecture, performance and the added value provided for critical solutions, applications and services in the different domains of application.

#### Management of Galileo User Services and GNSS Service Centre

- GNSS Service Centre coordination
- User services activities
- Definition of the plan of activities aimed at increasing the uptake of Galileo and the perimeter of services in the GSC in different domains
- Promotion activities in the different market segments: contact with key stakeholders, forums, user groups and manufacturers
- Market studies, analysis of user needs and technologies.
- Support to the evolution of GSC services (specification of new services, pilot projects)
- Support to operations and development of GNSS applications, training for user communities.



#### **Digital Elevation Models**

Extensive experience in the production of Digital Elevation Models (DEM), both Digital Terrain Models (DTM) and Digital Surface Models (DSM). Production from various sources such as stereoscopic images from satellite constellations and drone flights.



#### **Geographic Information** Systems (GIS)

Applications based on Geographic Information Systems (GIS) provide the spatial dimension. The visualization of this information on cartography makes it possible to manage the operations and distributed assets in a differential way. Different activity sectors, such as: Network Management, Large Area Management, Efficient Public Management, Support to Security and Emergency Functions, Logistics and Mobility, and Commercial and Risk Management.







## AEROSPACE ENGINEERING GROUP, S.L.

Pol. Ind. El Campillo, bloque 1D 48500 Abanto Zierbena (Vizcaya) Tel.: +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 suppliers. The Aerospace Engineering Group performs component maintenance under EASA part 145, FAR part 145, TCCA and CCA UK for civil aircraft, and under EMAR/PERAM 145 and AQAP/PECAL 2110 for military aircraft. Our company has extensive experience in the repair and overhaul of a wide variety of civil and military aircraft components, such as power generating equipment, hydraulics systems, avionics, landing gear, fuel systems, etc.

## babcock

**BABCOCK MISSION CRITICAL** 

The management of MRO programmes and the

modernization of both military and civil aircraft

at Babcock España are underpinned by more

one of the pioneering and leading companies

sustainment activities during the life cycle of a

helicopter (scheduled maintenance, overhaul,

of modifications). In order to be able to carry

out all these activities, the company holds the

(production), MDOA (military design), CAMO ++

(airworthiness management) as well as AQAP-

120/PECAL 2120. We are the "Service Station Centre" for the world's leading helicopter

following certifications: DOA (design), POA

improvement of capabilities and implementation

than half a century of experience, making us

in this sector in Spain. Babcock performs all

SERVICES ESPAÑA. S.A.U.

Partida de la Almaina, 92

03110 Mutxamel (Alicante)

www.babcockinternational.com

Tel.: +34 965663835



#### BIGAS GRUP HELICOPTERS, S.L.U.

Heliport del Circuit de Barcelona-Catalunya, Mas de la Moreneta, s/n. 08160 Montmeló (Barcelona) Tel.: +34 935167044 www.bghelicopters.com

We are the leading company in passenger transport with helicopters in Spain, carrying out VIP charter flights, tourist flights and all kinds of events with helicopters, in addition to offering a wide range of air services, such as: firefighting, inspection of power lines, aerial spraying, photography and filming. We are also specialized in carrying out aeronautical maintenance and engineering services for different administrations (including defence), airlines and individuals, not forgetting our flight school.



#### COMPAÑÍA ESPAÑOLA DE TÉCNICA AERONÁUTICA, S.A.

C/Cañas, 7 (Nave entresuelo) 28043 Madrid Tel.: +34 911400181 www.ceta.aero

CETA is a Spanish engineering and aeronautical design company, approved by EASA and the Spanish Ministry of Defence, with extensive experience in aircraft modernization, as well as in the integration and certification of avionics and mission systems on board civil and military aircraft and helicopters.

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

Certifications: ISO 14001 ISO 9001 ISO 45001

manufacturers.

Certifications: EASA ISO 9001 ISO 14001 UNE EN 9110 ISO 45001

Certifications: ISO 9001 EASA



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

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

Elecnor Deimos is a company 100% owned by the Spanish industrial group, Elecnor, and 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, we develop complete Earth observation satellites, the satellite ground segment and systems for surveillance and tracking of space objects, as well as satellite navigation receivers and applications. Other activities for defence include unmanned aircraft, coastal surveillance and maritime traffic control systems and air navigation aid and communications systems.

**GESTAIR** Maintenance

## GESTAIR MAINTENANCE, S.L.U.

Antigua Zona Industrial de IBERIA, edif. 107, - 1.ª 28042 Madrid Tel.: +34 913123140 www.gestair.com

Gestair Maintenance, formerly Corjet Maintenance, is the only Spanish operator offering a comprehensive customer service in business aviation with worldwide coverage, covering base and line maintenance, as well as component maintenance.



#### **INGENIERÍA SEMASA, S.A.**

C/Berlín, 27 28813 Torres de la Alameda (Madrid) Tel.: +34 918868500 www.semasamro.com

A Spanish company specializing 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 AERONÁUTICA, S.L.U.

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

In 2002, Inmapa Aeronáutica was created as a clear commitment of Grupo Inmapa to the aeronautical sector.

It is a division specializing in the manufacture of metal components and small assemblies for the aeronautical industry.

It carries out machining, assemblies, painting and chemical treatment of aircraft parts.

Certifications: ISO 14001 ISO 20000 ISO 27001 ISO 9001 PECAL / AQAP 2110

Certifications: PECAL / AQAP 2110 EASA ISO 9001 Certifications: ISO 9001 ISO 17025 EASA PECAL / AQAP 2110

Certifications: UNE EN 9100 ISO 9001



#### MECANIZADOS Y MONTAJES AERONÁUTICOS, S.A.

Avd. Inventor Pedro Cawley, 31 D 11500 El Puerto de Santa María (Cádiz) Tel.: +34 956860325 https://mymgroup.es/

Manufacture of metal components focused on the aerospace industry.



#### **TURBAIR, S.A.**

C/ Brújula, 13, nave 1 28850 Torrejón de Ardoz (Madrid) Tel.: +34 916750818 www.turbair.com

TURBAIR, S.A. engages in the manufacture of aeronautical tools and test benches, as well as the maintenance, including overhaul, repair, inspection and modification of aeronautical components and turbine engines for the defence sector.

It has the engineering development capability to obtain the necessary guidelines for all types of designs related to the aeronautical industry. Since 1988, TURBAIR has been overhauling 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, the company has been overhauling portable and engine fire extinguishers, as well as oxygen cylinders and regulators. TURBAIR also carries out the overhaul of ACMs and gearboxes of the F-5 aircraft.

## WAKE

#### WAKE ENGINEERING, S.L.

Avenida Rita Levi Montalcini, 2 28906 Madrid Tel.: +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.
- Naval operations with take-off and landing capability on ships.

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

Certifications: UNE EN 9100 ISO 9001







## Armament and Ammunition Sector



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

Land Vehicles; Systems & Equipment

Aerospace RPAS; Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Auxiliary Industry & Spares

Electronics, Communications & ICT C4ISR; Surveillance & Security; Simulation

Simulation Simulation

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Avenida Punto Es, 10 28805 Alcalá de Henares (Madrid) Tel.: +34 911898293 www.eme-es.com

Escribano is characterized by its high degree of specialization in the products it manufactures and its policy for the continuous, modern and innovative acquisition of equipment using the latest technologies.

In the production, machining and engineering departments, the company has highly qualified, specialized 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, resources and training, thereby holding the privileged position of being a key supplier. These types of initiatives allow Escribano to gain more knowledge about a product and its technical requirements, thereby ensuring the satisfaction of its customers.

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

#### GUARDIAN Remote Weapon Station

GUARDIAN towers are remotecontrolled ground weapon stations and are characterized by the fact that they can operate both day and night and are gyro-stabilized on two axles. Within the GUARDIAN family, there are lightweight stations, such as the GUARDIAN 2.0, which can be integrated on different vehicles and can accommodate different calibre weaponry (5.56-mm, 7.62-mm, 12.7mm, and 40-mm Mk 19 grenade launchers, as well as artillery launchers) and large calibre stations, such as the GUARDIAN 30, specially designed for armoured vehicles, which includes a 30-mm cannon (adaptable to 40-mm) Mk 44 Bushmaster II and a 7.62-mm coaxial machine gun as secondary armament, and has a dual electro-optical system that offers great versatility.



## SENTINEL Remote-Control Station

SENTINEL towers are remotecontrolled naval weapon stations and are characterized by the fact that they can operate both day and night and are gyrostabilized on two axles. Within the SENTINEL family, the SENTINEL 2.0 is a modular station that can incorporate 5.56-mm, 7.62-mm and 12.7-mm calibre weapons. The sighting system allows for automatic object identification and tracking. The largest calibre station is the SENTINEL 30, designed for medium and large vessels, which is fitted with a 30-mm (adaptable to 40-mm) Mk 44 Bushmaster II (standard or stretch version), which offers high firepower and accuracy thanks to the latest generation ballistic calculator incorporated in the system.

## Advanced Observation System for Multiple Applications

OTEOS is an electro-optical observation and tracking system, specially designed for installation in fixed positions or integrated on land or naval platforms and vehicles. It is a stabilized and modular platform, equipped with the latest technology available in the market for optronic sensors in the visible and infrared band. in order to increase its capacity in terms of detection range, high-definition resolution for identification and automatic tracking of targets. Its modular design and open architecture allow for easy installation and maintenance, as well as integration with external sensors.

### 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 highfidelity experience that provides realistic training with subsequent evaluations of the performance and effectiveness of both the personnel and the units.

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

#### 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 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 customers' requirements, specifications and certifications. We hold the certifications needed to manufacture in the aeronautical. aerospace and defence sectors.











# EXPAL

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Avenida del Partenón, 16 28042 Madrid Tel.: +34 917220235 https://www.expalsystems.com/

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

Land Maintenance & Life Cycle Support

Aerospace Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Auxiliary Industry & Spares

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.

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001

#### Sistemas de morteros Mortar Systems

EXPAL offers a complete solution for mortar systems based on enhancing mobility, safety and efficiency. This solution includes mortar systems (60-mm, 81-mm, and 120-mm), the complete family of ammunition and the 60/81-mm mortar system on board the EIMOS 4x4 vehicle. EXPAL also offers fire control systems for mortars and artillery (TECHFIRE), mini-UAVs for aerial reconnaissance (SHEPHERD-MIL), simulators (eSIMOX) and maintenance and logistics services at a single point of contact. 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.



#### **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 modernization services for aeronautical systems. The company manufactures and integrates the CAT-70 (70-mm, 2.75") family of air-to-ground rockets for fixed and rotary wing platforms compatible with the most accurate and advanced guidance systems and the Mk 80 series for use on major NATO platforms. EXPAL's capabilities and its cooperation with other Tier 1 companies in major programmes form the basis for the company's offer for the maintenance and modernization of weapon systems and platforms.



#### Naval Ammunition

EXPAL designs, develops and manufactures ammunition fully compatible with the most important naval weapon systems, such as 40-mm and 76-mm guns in all their variants, as well as for 5" / 127-mm mounting. EXPAL's extensive portfolio includes practice ammunition with and without tracers, as well as combatproven insensitive munitions (IM) with natural or preformed fragmentation.

EXPAL also offers a complete range of underwater ammunition, such as the GAB grenade and the MILA limpet system. Safety and operational efficiency are key aspects during the design stage.



#### **Energetic Materials**

EXPAL has state-of-the-art facilities to develop and manufacture energetic materials for the defence and civil sectors. The company has invested over €3 million in the past seven years to implement new technologies and improve the process and manufacturing lines. Thanks to its industrial capabilities and know-how, EXPAL carries out services to extend the useful life of rocket motors in order to modernize armies' capabilities in rockets and missiles. According to safety and environmental policies, EXPAL is a benchmark in the production of single, double and triple base powders, among other solutions.



#### **Demilitarization Services**

EXPAL is a leader in demilitarization services thanks to its 40 years of experience, its capabilities and its processes based on the recovery, recycling and reuse of 99% of the materials extracted.

Currently, EXPAL manages demilitarization projects worldwide, 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, preserving nonrenewable resources and reducing the ecological footprint.



# <u>Instalaza</u>

## 142

C/ Monreal, 27 50002 Zaragoza Tel.: +34 976293423 www.instalaza.es

#### INSTALAZA, S.A.

Aerospace RPAS; Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Demilitarization; Simulation; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Surveillance & Security; Systems & Equipment; Simulation

Logistics, Ancillary & Services Infrastructures; Auxiliary Industry & Machinery; Consumer Goods; Other Instalaza, S.A. is a Spanish company that was founded in 1943. Since then it has been designing, developing and manufacturing weapon 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 its turnover coming from the export market.

Our products, from the early 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) infantry system consists 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 maximize the hit probability. It has a range of different types of ammunition (anti-tank, dualpurpose, anti-bunker and multipurpose), integrated into its disposable launching tube, fireable from confined spaces.



Certifications: ISO 9001 PECAL / AQAP 2110

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

C90 Family. A 90-mm weapon system for infantry comprising various weapon versions, C90-CR (M3), CS90 (for firing from confined spaces), C90 reusable system (composed of a reusable tube capable of firing all C90 family ammunition) and ammunition (antitank, anti-bunker, dual purpose, smoke and 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 fuze means that 100% of all fuzes 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 22mm muzzle and 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 minimized, 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, geared toward realistic and costeffective training. These solutions cover both indoor use, with our SAARA simulator, and training in the field, with our sub-calibre weapons and training ammunition.





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

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

Land

Systems & Equipment; Maintenance & Life Cycle Support

Naval Systems & Equipment

Aerospace RPAS; Simulation; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Armament & Ammunition Armament; Ammunition; Maintenance & Life Cycle Support

Electronics, Communications & ICT Radars; Electronic Warfare; C4ISR; Systems & Equipment; Surveillance & Security 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 objective of supporting the Spanish 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 Leonardo Group products with the aim of consolidating itself as the Group's centre of excellence in Spain, as well as becoming a point of reference for the different Spanish institutions and for the national industry.

#### **HITFIST Manned Turret**

HITFIST® is a manned turret incorporating the latest technologies in the fields of electronics, protection, signature and human machine interface (HMI). The turret is made of ballistic aluminium alloy; armour plated panels are installed to reach the required protection level. The main armament consists of an automatic 25-mm. 30-mm or 40-mm cannon. The turret has secondary armament consisting of a coaxially mounted 7.62-mm machine gun, a 7.62-mm manual machine gun on the turret and an artillery launcher kit. Main armament can also include two anti-tank missile launchers.



Armament & Ammunition Sector

Certifications: ISO 9001 PECAL / AQAP 2110 ISO 14001
### **HITFACT Mk II Turret**

HITFACT® Mk II 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. HITFACT® Mk II represents a new phase in the evolution of the combat-proven HITFACT<sup>®</sup> 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 modernized 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 theatres of operation by different users.



### M-346 Aircraft

The M-346 is the most advanced trainer aircraft designed for a wide range of training types, high longterm reliability and cost-effective operations. A cornerstone of an integrated training system, the M-346 is the most modern solution to train the new generation of pilots. The aircraft is in service with the Air Forces of Italy, Republic of Singapore, Israel and Poland. It stands out for its modular avionics. the possibility of future upgrades and the ability to train in air-to-air and air-to-surface missions, which greatly facilitates the trainees' subsequent leap to piloting advanced combat aircraft.



### HITROLE 12.7 L Turret

HITROLE® Light is one of the most advanced lightweight remote weapon stations (RWS) in the performance of multirole capabilities such as urban surveillance and patrol, border security, counter-sniper and asymmetric warfare. Due to its low weight and innovative design, the turret can be quickly installed on all types of vehicles. HITROLE® Light requires no hull penetration.



### **VULCANO** Ammunition

VULCANO<sup>®</sup> is a family of guided and unguided ammunition for 76-mm and 127-mm naval guns and 155-mm land artillery systems. The weapon's effective range is enhanced beyond the industry standard with the additional accuracy provided by VULCANO technology: sub-calibre, GPS-IMU guidance and IR or SAL terminal sensor, as well as lethality enhancements. Together with the DART and the 4AP fuze. Leonardo has developed the VULCANO family of projectiles that offer the ability to engage surface targets at long ranges using only weapon systems, thus saving on cruise missiles.



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Nampo

Plaza Rabi Sem Tob, s/n 34004 Palencia Tel.: +34 979165570 www.nammo.com

### NAMMO PALENCIA, S.L.

Armament & Ammunition Ammunition

Logistics, Ancillary & Services Consumer Goods The Company's business activity consists of the manufacture, production and marketing of all types of ammunition for armament and its 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 Mk 44 Bushmaster II and Mauser Mk 30 weapons.



### 40 x 53-mm Ammunition

Standard NATO grenades for antipersonnel/anti-materiel use on automatic grenade launchers such us the Mk 19, Mk 47, 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 51mm Ammunition

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





### **NEW TECHNOLOGIES GLOBAL SYSTEMS, S.L.**

Land

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Aerospace RPAS; Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Radars; C4ISR; Surveillance & Security; Systems & Equipment; Simulation; ICT

Logistics, Ancillary & Services Infrastructures; Auxiliary Industry & Machinery; Services

Consulting & Engineering Consulting & Engineering

Simulation Simulation 148

C/ Buril 65 28400 Collado Villalba (Madrid) Tel.: +34 917105489 www.ntgs.es

NTGS is a Spanish company, founded in 2002 and specialized in the development of innovative systems for the defence and security sectors. It has offices all over the world. NTGS designs 120-mm, 81-mm and 60-mm mortar systems, remote weapon stations, unmanned marine and underwater platforms, mortar and artillery munitions, fuzes, electronics and software. All NTGS products are combat proven.

Its product portfolio includes the Alakran system, a patented and worldwide unique 120-mm and 81mm lightweight carrier system for highly mobile deployable units.

Certifications:

ISO 14001 ISO 9001 ISO 45001

### Alakran 120/81-mm Mortar Carrier

Alakran is the lightest 120/81-mm mortar carrier on the market. Alakran is vehicle, mortar and fire control system (FCS) agnostic. With a simple and robust military design, it is an easy to maintain, fast and accurate system.

Armament & Ammunition Sector

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

NTGS manufactures NATO standard ammunition in 120-mm. 81-mm and 60-mm calibres. The unbeatable characteristics of our ammunition are achieved together with the use of our mortars, as both products are designed as a system.

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

The VALI aiming and firing system is a system designed for indirect firing units, including artillery and mortar systems. VALI integrates a high-precision GPS positioning and guidance system, an inertial navigation system (INS), an aiming display to facilitate and guide the manual aiming operation, a ballistic calculator and a computer with integrated GIS capability.

### **Battle Management System** (BMS)

1Command is the battle management system (BMS) of NTGS for command and control units and situational awareness in the battlefield. It can operate at all levels of the tactical environment, from Headquarters to advanced command positions (C2 vehicles, mobile headquarters, etc.), enabling commanders to make decisions in a timely manner and creating an overall view of the operational situation. 1Commander has been designed using highperformance open architecture, enabling the integration of other NGTS solutions (Alakran, FO, etc.) and any other platform/product/ solution.

### **Forward Observer**

The Hermes forward observer system consists of a compact lightweight system which offers the forward observer a graphic communication platform to exchange information with the battle management system (BMS), enabling information to be sent to the command centre (target position, impact point, etc.). It enables a new target to be identified and located on the map using the laser rangefinder, marking impact points and sharing this information with the command centre, instantly providing aiming correction information, receiving orders from the command centre, etc.











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

Armament & Ammunition Armament; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Surveillance & Security; Systems & Equipment

Logistics, Ancillary & Services Uniforms & Equipment; Other 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 vision exporter, it produces monocular and binocular night vision systems, night vision observation and fire sights, thermal goggles and sights and compact laser systems. Product range:

C/ Aragoneses, 3 BIS 28109 Alcobendas (Madrid)

Tel.: +34 913810600 https://www.nvls.es/

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- Ruggedized, ultra-lightweight
   18-mm multi-function night vision monoculars.
- Ultra-compact 16-mm MINIMUS monocular (<170 grams).</li>
- Ultralight ANVIS pilot goggles.
- Thermal viewfinders.
- Multi-sensor day/night observation binoculars.
- Compact multi-function laser rangefinders.
- High power IR laser designators
   / illuminators.

### AM-NVM: Night Vision Monocular

Ruggedized and very lightweight multi-function night vision monocular in 18-mm technology. Lightweight metal alloy construction. Weight < 300 grams. State-of-the-art optics with extended spectrum.

Multi-functional:

- Helmet-mounted in monocular or binocular mode for driving.
- Mounted on a monocular or binocular face mask for driving.
- Mounted on a tandem weapon with red dot sights.
- Submersible to 30 m in monocular or binocular mode.



Certifications: ISO 9001

### MINIMUS Night Vision Monocular

Ruggedized, ultra-compact, multifunction night vision monocular in 16-mm technology. Made of ultralight metal alloy. Weight < 170 grams. State-of-the-art optics with extended spectrum.

Multi-functional:

- Helmet-mounted in monocular or binocular mode for driving.
- Mounted on a monocular or binocular face mask for driving.
- Mounted on a tandem weapon with red dot sights.
- Submersible to 30 m in operating mode.



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

ANVIS ultra-light goggle for helicopter or jet pilots. Made of ultra-lightweight metal alloy. Weight < 500 grams. New generation optics with increased bandwidth. Customized cut-off filters for compatible cockpits. Increased field of vision to 43°.



### **Thermal Cameras**

Uncooled thermal fire sights; made of ultra-lightweight metal alloy; short, medium and long-range models available; version for HMG available.



### Multi-Function, Compact Laser Rangefinder

Multi-function, compact laser rangefinder. Made of ultra-lightweight metal alloy. Weight < 200 grams. Mountable on any firearm. Attachable to night vision monoculars or binoculars. Attachable to night, day and thermal sights.



# PAP TECNOS 🏈

### PAP TECNOS INNOVACIÓN, S.A.U.

Land

Systems & Equipment; Maintenance & Life Cycle Support

Naval Underwater Systems

Aerospace RPAS; Aerial Systems & Equipment

Armament & Ammunition Armament; Ammunition; Missiles; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Electronic Warfare; C4ISR; Cyber Defence; Surveillance & Security; Systems & Equipment

Consulting & Engineering Consulting & Engineering

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Avenida de las Estaciones, 8 28850 Torrejón de Ardoz (Madrid) Tel.: +34 916623236 www.paptecnos.com/es/

PAP Tecnos is a Spanish company located in Torrejón de Ardoz, Madrid, which manufactures and supplies state-of-the-art equipment and systems for application in the defence and security market. PAP Tecnos has a dual commitment closely linked to society and the economy. On the one hand, the reliability and experience of our products offer the security that the Armed Forces deserve. On the other hand, the commitment to the development of the Spanish defence industry is the second driving force behind the decisions taken in the company. PAP Tecnos' great asset is its knowledge and its history. Thanks to this, we have achieved a high level of satisfaction among those to whom we provide our services: our soldiers. The entire PAP Tecnos team is grateful to them for their commitment and professionalism. El gran activo de PAP Tecnos es su conocimiento y su historia, con los que hemos conseguido un alto índice de satisfacción de aquellos a los que prestamos nuestros servicios, nuestros soldados, a quienes todo el equipo de PAP Tecnos agradece su compromiso v profesionalidad.

Certifications: ISO 9001 PECAL / AQAP 2110

### **SPIKE** missile family

Tactical guided IR and VIS missiles. Fifth- and sixth-generation, multi-purpose with ranges of 2 to 50 km. With more than 40 user countries worldwide, 20 of them NATO members, this is the most widespread family of anti-tank missiles. Manufacture, integration, support and maintenance ensured in Spain by PAP Tecnos.

- More than 36,000 SPIKE missiles delivered worldwide.
- More than 6,000 SPIKE missiles fired.
- More than 2,600 SPIKE missiles delivered to the Spanish Army.
- Successfully integrated on more than 40 platforms.



### V/UHF SDR BNET Radio

**BNET** is an advanced IP MANET (mobile ad hoc network) radio for tactical operations in the modern digital battlefield with high speed, low delay and reliable connectivity for data, voice and video on the move. Modular. multi-band and multi-channel. BNET is a networkcentric system, optimizing the use of the spectrum, for vehicular and aerial platforms, headquarters and foot soldiers. It offers high network capacity in terms of data rate, number of users (+1,000) and minimal delay, allowing all land, sea and air units to participate in a single seamless and scalable MANET network.



Effective, versatile and scalable solution for drone threats, which includes both soft and hard kill capabilities based on laser effectors.

Deployed in more than eight countries and protecting both infrastructures and platforms or deployments, ADALID is the best solution to detect, classify, identify and neutralize current and future drone threats.

### RCWS Weapon Control Systems

These remote-control weapon stations for land vehicles provide improved accuracy while maximizing crew protection from enemy fire. Designed for high performance and survivability, they have been adapted to a wide variety of tracked and wheeled armoured vehicles, are offered in six configurations and enable a variety of weapons to be mounted, including 5.56/7.62/12.7 and 30mm, 40-mm AGL, ATGM, electrooptical, and non-lethal devices.



### **C-GEM Naval Decoy**

Active RF based off-board naval decoy. The C-GEM system is a highly effective active RF decoy against current and future radarguided anti-ship missile (ASM) threats.









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

C/ Hermosilla, 14, 4.° B 28001 Madrid Tel.: +34 913889834 www.adaptive.es

Adaptive Systems, S.A. is a leading company in simulation systems for missile launchers. With experience since 2002 in building missile simulators, Adaptive Systems develops missile simulators of all types and in multiple configurations: surface-to-surface, surface-to-air, air-to-air and air-to-surface, based on low-cost standard components.

Adaptive Systems has the know-how, tools, models and technology to build simulators in short timescales, developed in Spain in accordance with the requirements defined by the Spanish Army, permanently updating these requirements on request.



### ECIA XEMEIN, S.A.L.

Avenida Xemein, 12 48270 Markina-Xemein (Vizcaya) Tel.: +34 946167616 www.eciaxemein.com

The firm manufactures metal parts for armaments. The company was founded in 1995 in Markina (Vizcaya) by a group of 20 workers 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-working shareholders. It began operations at the facilities of that 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.



### FALKEN, S.A.U.

C/ Diamante, 7 28021 Madrid Tel.: +34 917981418 www.falken.es

With 40 years of experience, FALKEN is an international leader in the manufacture of smoke devices, pyrotechnic products and non-lethal ammunition for armed forces and police corps.

We supply armed forces in more than 20 countries with a wide range of smoke concealment solutions, for both armoured vehicles and for troops or areas. These smoke devices are used for operations in the battlefield or for drills. We also offer signalling and rescue solutions of all kinds. All our products are manufactured in-house and comply with the most demanding quality standards (ISO 9001:2015, PECAL/AQAP 2110). Since 2018, FALKEN has been part of the Etienne Lacroix Group, a recognized world leader in the pyrotechnic sector, mainly for defence. Thanks to this alliance, FALKEN can offer Spanish customers the range of Lacroix pyrotechnic countermeasure solutions.



### MBDA ESPAÑA, S.L.

Plaza Pablo Ruiz Picasso, 1 28020 Madrid Tel.: +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 able to meet the complete range of current and future operational requirements of the Armed Forces, for which it currently has 45 products in service and another 15 under development, MBDA has demonstrated its ability to consolidate European technologies in the state of the art of the missile sector 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 recognized 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.

Certifications: ISO 9001 ISO 14001

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







# Electronics, Communications and ICT Sector



### **ACORDE TECHNOLOGIES, S.A.**

verospace

Aerial Systems & Equipment; Satellite Services

Electronics, Communications & ICT Electronic Warfare 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, being a global benchmark in the X and Ka bands), electronic warfare and data links. The company provides robust, reliable and fieldproven solutions for customers worldwide in the military, space, and telecom 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.

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C/ El Castro, 22 N

39011 Santander (Cantabria) Tel.: +34 942764400 www.acorde.com

Acorde Technologies S.A., founded

in 1999 and certified according to

Equipment is also certified, upon customer request, according to MIL-STD-810G/461E.

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), ensuring high stability in temperature gain. They also include internal output power detection, a temperature alarm and power amplifier shutdown to protect the equipment from permanent damage in high temperature conditions. Moreover, equipment can be configured with an AC or a DC power supply, in single band or dual band (switchable). This enables communications via serial port (RS232/RS48) with the following options: TCP/IP and SNMP.



Electronics, Communications & ICT Sector

### 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. They also include internal output power detection, a temperature alarm and power amplifier shutdown to protect the equipment from permanent damage in high temperature conditions. The equipment has an integrated AC power supply, easy to change without tools. This enables communications 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). With an adaptable gain (up to 40 dB option) and maintaining high linearity (P1dB of +20 dBm option), a very reliable solution is achieved, validating its performance over the entire temperature range (each unit). Additionally, redundancy configurations (1+1 and 2+1) supported by a controller on a 19" rack are available for large stations that require the assurance of full availability.

### Ka-Band LNBs

The ACLNB-Ka family is designed for MILSATCOM systems. With the objective of maximizing the G/T of the receiving system, a waveguide isolator is included, thereby providing an optimal input match. With superb performance in terms of NF, phase noise and gain variation, high reliability is validated in a climatic chamber (each unit over the entire temperature range). The family is offered in single (1 GHz), dual (2 GHz), wide (3.5 GHz) and ultra-wideband (4.5 GHz) versions in the 17.7-22.2 GHz range, with one output port and switchable oscillator, or multiple outputs for simultaneous reception (2 and 4 outputs).



### 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 loop translators (TLTs) and redundancy systems are some of the functionalities available for this modular solution. Full connectivity and management, both locally (via its front panel) and remotely via its communications ports.



# AKHA

### **AKKA TECHNOLOGIES SPAIN, S.L.U**

### and

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Simulation

### Nava

Systems & Equipment; Underwater Systems; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

### Aerospace

RPAS; Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Satellites; Satellite Services; Ground Segment; Satellite Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Simulation

### Electronics, Communications & ICT

Radars; Electronic Warfare; C4ISR; Cyber Defence; Surveillance & Security; Systems & Equipment; Maintenance & Life Cycle Support; Simulation; ICT

### ogistics, Ancillary & Services

Infrastructures; CBRN; Health & Medicine; Auxiliary Industry & Machinery; Consumer Goods

### Consulting & Engineering Consulting & Engineering

Simulation Simulation

# 160

C/ de Martínez Villergas, 52 28027 Madrid Tel.: +34 916496153 www.akka-technologies.com

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, industrialization, product life cycle, after-sales) and through various centres of expertise (systems engineering, mechanical engineering, process engineering, electrics/electronics and embedded software, support engineering, information systems and consulting).

AKKA Technologies Spain offers a combination of engineering services and digital technologies for delivery across sectors (aerospace, energy, railways, automotive, naval, pharmacy, agriculture, etc.).

Certifications: ISO 17020 ISO 9001 UNE EN 9100 ISO 45001

### 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, HW and SW assurance, simulation, etc.), design, integration and testing of HW and SW, mechanical and electrical design, thermal analysis, manufacturing, industrialization, supply chain, RAMS, digitalization, quality, maintenance (A/C operability, supportability, CAMO, BITE, etc.) and in-service support.



### **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, conducting inspections at source and providing document management. Also in the test department: mechanical, electrical and electronics tests, combat systems, etc.



### Engineering Services - Madrid Industry

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 the support to the development of wind farms, photovoltaic and industrial plants, in activities such as monitoring and control; development of SCADA and communications systems and IT activities for critical infrastructures.



### Engineering Services -Catalonia Industry

We develop projects mainly in the automotive and industrial sectors:

- 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 the 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.



### Engineering Services - North Industry

We are suppliers of engineering services in the energy, railway and industrial sectors mainly. We develop the integration of electrical and mechanical systems and analyse the adequacy of components to verify proper performance in the wind and photovoltaic sector systems. We carry out the design of components and parts of the wind turbine, as well as integration of customized systems and monitoring. Likewise, we carry out technological engineering of

technological engineering of analysis, supervision and control system. We also carry out simulation and validation projects with equipment in various sectors.



# 

Calle Margarita Salas, 10 28919 Leganés (Madrid) Tel.: +34 911401973 www.arquimea.com

162

# ARQUIMEA AEROSPACE DEFENCE AND SECURITY, S.L.U.

Aerospace RPAS

Armament & Ammunition Armament

Electronics, Communications & ICT Surveillance & Security; Systems & Equipment; ICT ARQUIMEA is a Spanish multisector technology company operating globally in technically demanding sectors. Founded in 2004, today it has more than 15 years of experience and over 500 professionals.

ARQUIMEA cooperates with defence ministries, NATO armed forces and with the leading companies in the defence sector, to address the current and future operational requirements of the Armed Forces. In addition, the technology company also cooperates with international space agencies, and with the main satellite operators, as well as with research centres and universities. Its product portfolio includes electronic and information devices and systems to enhance the capabilities of mortars and cuttingedge loitering systems.

### **Q-SLAM-40** Loitering System

Q-SLAM-40 is a tactical loitering system designed to perform diverse types of short-range operations including security, surveillance, reconnaissance, target acquisition and damage assessment. The loitering system has been designed to tackle complex combat environments in special or conventional operations in the field or from fixed defensive positions.

Q-SLAM-40 system is a costeffective, flexible, robust and durable system that can be easily carried by a team of two soldiers in lightweight backpacks.



Certifications: UNE EN 9100

### eCOMPASS Electronic Aiming System

eCOMPASS is an electronic aiming system that makes the aiming process for mortars easier and faster. The device combines speed, accuracy, and usability to improve the effectiveness of mortar units in the battlefield, where every second counts.



### mCOUNTER Mortar Maintenance System

mCOUNTER is an electronic device designed to increase safety and ease the maintenance tasks for mortar systems by automatically recording every shot fired by the weapon.

The system records the number, date and time of the shots fired. This information is crucial to adapt the maintenance plan for each mortar through its life cycle.



### TECHFIRE Mortar Command and Control System

TECHFIRE is a fire control and information system for mortars and artillery that automates and accelerates all tasks related to direct or indirect fire operations, in a single weapon or a complete unit, allowing greater precision and control over fire support processes.



### **SHEPHERD**

SHEPHERD-MIL ADVANCED is an autonomous aerial reconnaissance UAS in the shape of a bird. It is silent and incorporates a surveillance system. The UAS, suitable for infantry or artillery units and for special operations and security forces, is in service with armed forces around the world. Designed to resemble a bird, it is also powered by an electric motor to ensure silence. The SHEPHERD-MIL UAS can approach targets for tracking and data acquisition without being recognized.



# Atos

# 164

Ronda de Europa, 5 28760 Tres Cantos (Madrid) Tel.: +34 914569803 https://atos.net/en/industries/defense

### ATOS IT SOLUTIONS AND SERVICES IBERIA, S.L.

### Land

Systems & Equipment; Auxiliary Industry & Spares

Naval Systems & Equipment

### Aerospace

Aerial Systems & Equipment; Satellite Services; Ground Segment; Satellite Services & 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; Other

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 an annual turnover of €13 billion. Number one in Europe in cloud services, cyber security 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 its own (BULLION x86 infrastructure and HPC BULLX) or third-party, 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 digitalized battlefield by maximizing information sharing at strategic, operational and tactical level, thereby optimizing cooperation among all organizations and allies.



### **Communications Solutions**

Atos delivers turnkey projects making use of communications in all frequency bands and technologies (data networks, HF, VHF, UHF, GSM satellite communications. end-to-end encrypted phones, etc.) to implement ground-to-air solutions for the Air Force, IT infrastructure for the Defence Staff and NATO Link 11 communications for the Air Force, satellite communications for Spain's Civil Guard, etc. Unify is the leading brand of Atos for unified communications systems and real-time collaboration solutions. The UCC portfolio includes OpenScape and a Platform-as-a-Service (PaaS) with Circuit.



# Deployable and Transportable Solutions

Atos develops deployable and/ or embedded communications and command and control solutions. Armoured vehicles for battalion command stations. mobile command centres for crisis management in the Military Emergency Unit (UME) (units in Mallorca, Menorca and Simancas), NATO stations for classified and unclassified networks (Cuenca transportable station), design, development, commissioning and logistical support for the Spanish Army's deployable field hospital. Our comprehensive end-to-end solutions include digital workplace services, 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 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 cyber security (management of identities and access, encrypted phones, third-party technology integration, Security Operations Centres (SOCs), management of vulnerabilities and APTs, 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).





# 166

Avenida Rita Levi Montalcini, 3 28906 Getafe (Madrid) Tel.: +34 911840396 www.centum.com

### **CENTUM SOLUTIONS, S.L.U.**

Systems & Equipment

Systems & Equipment; Auxiliary Industry & **S**pares

Aerial Systems & Equipment; Satellites; Satellite Services; Satellite Systems & Equipment; Auxiliary Industry & Spares

Radars; Electronic Warfare; C4ISR; Cyber Defence; Surveillance & Security; Systems & Equipment; Simulation; ICT

# Simulation

CENTUM is a Spanish company with an international presence (Brazil and Germany). It is a leader in innovation and is highly specialized in communications engineering, electronic warfare, and control and signal intelligence. The company offers products, services and solutions in the defence, aeronautics, space, security and telecommunications sectors.

### **Communications and Signal Intelligence Systems**

As a complement to the services and solutions it offers. CENTUM also provides a high degree of specialization in communications systems, developing, among others, data links with high capacity or low probability of being detected, robust against threats but, mainly due to its extensive experience in this type of systems, adjusted to the needs of each customer.



Certifications: ISO 27001 ISO 9001 **UNE EN 9100** 

### NOFLYZRONE© is a counter-

**Embedded Software and** 

experience to every phase of the

software engineering life cycle of

complex, critical, embedded and

highly interoperable systems.

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CENTUM contributes key

**Systems** 

**NOFLYZRONE** 

drone system which neutralizes 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 vulnerable GNSS installations.



### 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 search missions to be conducted in low or zero visibility conditions, including night flights, thereby reducing the sweep time of a search area and optimizing the operational costs.





# 168

Camino de Vera, s/n, edif. 8F, planta 2.ª 46022 Valencia Tel.: +34 963556150 www.dasphotonics.com

### DAS PHOTONICS, S.L.

laval

Systems & Equipment

### Aerospace

Satellite Serivces, Satellite Systems & Equipment

### Electronics, Communications & ICT

Radars; Electronic Warfare; C4ISR; Systems & Equipment; Maintenance & Life Cycle Support

Logistics, Ancillary & Services 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 long-periodic 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 iammer 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.





# 170

C/ Isaac Newton, 11 28760 Tres Cantos (Madrid) Tel.: +34 918072100 www.gmv.com

### **GMV AEROSPACE AND DEFENCE, S.A.U.**

Aerospace

RPAS; Aerial Systems & Equipment; Simulation; Satellite Services; Ground Segment

Armament & Ammunition Simulation

Electronics, Communications & ICT Radars; 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 administrations 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, fully adapted to their requirements and including all the necessary support to achieve optimum results at a suitable price.

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

### ISNAV

The ISNAV vehicle navigation system is GMV's advanced navigation and time reference solution for military vehicles. It incorporates multi-constellation (GPS, Galileo and GLONASS) and multi-frequency satellite navigation technology for precise positioning. It integrates the use of SBAS services and integrity monitoring algorithms to provide reliable GNSS solutions. It is capable of operating with two internal GNSS receivers that can be processed separately or in a mixed fusion solution. One of ISNAV's internal GNSS slots is ready to operate with M-Code GPS receivers to provide robust military solutions.



### Intelligence Systems (ISTAR)

GMV's JISR suite of products is composed of:

- IIRM & CM tool: provides support for intelligence planning, collection and exploitation.
- various formats and provides intelligence analysts with the tools required to elaborate useful intelligence products.
- CSD: multi-user software that provides persistent storage and dissemination of standardized intel products.

## **Access Control Systems**

GMV offers an integrated access control, presence and security system (ACS) aimed at controlling and supervising access to the different areas of multiple centres, allowing control over the employee's working day and managing the comprehensive security of the 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 development of electronic boards, the thermal and structural design of the system, and also the performance extensive environmental and EMI tests, as well as the development of complex HW- and system-testing systems.





**Command and Control** 

eForce TALOS is a fire support

planning and coordination system

designed to meet the NEC needs

levels (company, battalion brigade,

of ground forces. eForce TALOS

can be configured at different

etc.), automating battlefield

**Systems** 

operations.





# Indra

### **INDRA SISTEMAS, S.A.**

### and

Systems & Equipment; Simulation; Maintenance & Life Cycle Support

### Nava

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 & Ammunition

Missiles; Simulation; Maintenance & Life Cycle Support

### ectronics, Communications & IC

Radars; Electronic Warfare; C4ISR; Cyber Defence; Surveillance & Security; Systems & Equipment; Simulation; Maintenance & Life Cycle Support; ICT

Logistics, Ancillary & Services Infrastructures; CBRN

Consulting & Engineering Consulting & Engineering

# 172

Avenida Bruselas, 35 28108 Alcobendas (Madrid) Tel.: +34 914805000 www.indracompany.com

Indra is one of the leading global engineering technology companies serving the defence industry and a leader in the industry's digitalization. Its state-of-the-art solutions for land, sea and air, space and cyberspace range from operations with end-to-end defence systems or systems on board the most advanced platforms to training with cuttingedge simulation systems. A specialist in radar, electronic defence, command and control and communications technologies, Indra also incorporates artificial intelligence, big data, virtual reality and combat clouds into the new generation of critical systems. Indra is the national industrial coordinator in Spain of the FCAS. Indra is the Spanish company that coordinates the largest number of projects in the European defence sector. It also participates in a large number of European and international projects.

### Certifications:

PECAL/AQAP 2110, PECAL/AQAP 2210, ISO 14001, ISO 20000, ISO 27001, EMAS EUROPEAN CERTIFICATION, UNE EN 9100, UNE EN 9110, PECAL/AQAP 2310, ISO 9001, UNE EN 9120, ISO 31000, ISO 45001, ISO 22301, ROD ((DESIGN ORGANIZATION APPROVAL)), ISO/TS 22163

### Drones and Anti-Drone Systems

Indra provides comprehensive solutions consisting of multiplatform and multi-sensor UAV systems focused on solving the different needs and strengthening security in intelligence, surveillance, target acquisition and reconnaissance (ISTAR) missions. Indra has an anti-drone system (CROW) that combines multiple types of sensors and countermeasures, ready to be deployed in different formats (fix, mobile, portable). It has been designed to interact with multiple complementary systems in order to provide the most effective defence against UAS threats.



### Simulators

Indra provides simulators for training pilots, maintenance staff, various controllers, etc., which give high fidelity when replicating platform performance. 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 of short and long guns.
- Indra also provides training services with its own simulators.



**Air Defence Systems** 

on the information from the

of the network of actuators

network.

radar network, enable, through

and management of the actions

linked through a communications

It also performs air traffic control

2D radars, approach control and

at military bases by integrating

communications management

systems, and radio navigation.

Indra provides complete integrated

command and control, the planning

air defence systems which, based



### Satellite Communications Systems

SATCOM solutions include all those networks and civilian and military communications terminals, which enable the use of communications satellites for different applications. Indra provides SATCOM solutions where there is no ground infrastructure. Indra also provides terminals in the X band, which is the frequency band reserved for military use, and C and Ku bands, which are civilian frequency bands, and in recent years in the Ka band.



### Electronic Warfare and Countermeasures Systems

Indra provides electronic defence solutions to make efficient use of the electromagnetic spectrum to gain superiority over the enemy in the area of operation (land, sea or air), by means of three actions:

- interception, analysis, identification, tracking and location of emitter stations;
- use of directed energy techniques to prevent the use of the spectrum by opposing forces;
- protection of own emissions from potential electronic attacks by adversaries.



# Positive digital flow

### INETUM ESPAÑA, S.A.

Land Systems & Equipment

### Aerospace

Satellite Services; Satellite Systems & Equipment

Electronics, Communications & ICT Vehicles; Systems & Equipment; ICT

# 174

C/ María de Portugal, 9-11 28034 Madrid Tel.: +34 913874700 www.inetum.world

Inetum applied to the defence sector:

- Inetum has extensive experience in integrating applications for command and control, tactical and strategical C4ISR and, of course, a strong commitment to logistics systems.
- Inetum is an important player in the intelligence arena within the Spanish Armed Forces, particularly in OSINT (Open Sources Intelligence) and SIGINT (Signal Intelligence), border control, and has a broad field of action in digital identity.
- Experts in cyber security, where we provide customers with three centralized security operations centres (SOCs), artificial intelligence (AI), data storage and governance, and remote smart workplace systems.
- We have a strong software development ability or muscle.
   We have eight software service centres in Spain with experienced specialists in the public and private sectors.

Certifications: CMMI ISO 20000 ISO 27001 ISO 9001 PECAL / AQAP 2110 ISO 14001

### Engineering, Development and Integration of Electromagnetic Signal Capture

Inetum programme, in line with the requirements of the Ministry of Defence, for the exploitation and control of the radioelectric spectrum (COMINT and ELINT bands).



Electronics, Communications & ICT

### Maintenance of GAMO EW (Electronic Warfare) Station

Maintenance of EW shelter equipment:

- Wiring check.
- Battery chargers check.
- Antenna and AGS watertightness check.
- RESOLVE system laptop check.
- Operational check of antennas and calibration.
- Operational check of AGS.
- Operational check of overall system.
- Operational check of positioner.
- Documentation for tests and measurements.



### Development and Maintenance of Defence Logistics Systems

Tasks related to system operation, troubleshooting and corrective and adaptive maintenance of logistics systems, software quality assurance and information security.



### Command and Control Systems and Modernization of Operation Centres

The SG2I-Framework is Inetum's military solution as the basis for command and control and intelligence systems used in the operations centres.

The SG2I-Framework is a base tool on which different humanmachine interfaces (HMIs) are built and which comprises a layered model under the NEC paradigm, where the common services of the platform are separated, i.e., acquisition/interconnection layer, knowledge layer, common services, specific services, interoperability layer and presentation layer.



### Development and Implementation of Defence Intelligence Systems

Inetum has developed and implemented two intelligence systems: one for the Ministry of Defence (SICONDEF) and another for the Army (SIS). These systems are operational and are used by the Intelligence Centre of the Armed Forces and by the Operations Division of the Army, respectively.

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### INSTER TECNOLOGÍA Y COMUNICACIONES, S.A.

### Land

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 176

Avenida Rita Levi Montalcini, 2 28906 Getafe (Madrid) Tel.: +34 913802022 www.inster.es

Inster is a technology and engineering company that designs and builds innovative products and solutions for the sectors of telecommunications, defence and security. The company is part of Grupo Oesía, a solid 100% Spanish private corporation with a prominent presence in the markets of aeronautics, space, defence and security and ICT.

The core of Inster's technological developments and know-how are radio communications, in particular wideband satellite communications and data links for mobility applications. The company has developed a sound portfolio of products and solutions in the fields of fixed and mobile wireless communications for land, rail and aeronautical applications. **SATCOM Solutions** 

- A broad family of satellite terminals for on-the-move applications (SOTM) intended for the military and civilian spheres, on vehicles, railways, ships and aircraft.
- Configurations adapted to lowprofile, low-footprint or smallsize requirements, in single or dual band, while optimizing 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 UNE EN 9100

### **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.
- Industrialization.
- Configuration and commissioning.



### **Mobile Surveillance**

Surveillance solutions based on the FULMAR Delta tactical UAS.

- 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.

FUIMAR

### **Situational Awareness**

Management solutions for realtime mission information through a centralizing and integrating software platform, at the control centre or on board the operational vehicle.

- 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.





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C/ Barbastro, 5 28022 Madrid Tel.: +34 913930396 www.krc.es

### KRC ESPAÑOLA, S.A.

Naval Systems & Equipment

Aerospace Aerial Systems & Equipment

Electronics, Communications & ICT C4ISR; Cyber Defence; Systems & Equipment; ICT Specialists in computer and telecommunications engineering solutions. Design and supply of high-level IT equipment. Specialized maintenance and experts in military messaging systems, technology consulting and cyber security.

### Medium/High/Extreme Performance Servers

Servers with medium, high or extreme performance designed for critical, corrosive and extreme environments. We manufacture fully customized equipment according to customer requirements. Equipment operates under Windows, Linux and Solaris operating systems.



Certifications: ISO 9001 ISO 14001

### Hyperconvergence/ Virtualization Server

Virtualization server and cloud computing. Configurable according to end user requirements. Equipment operates under Windows, Linux and Solaris operating systems, with cloud and virtualization software.



### Semi-Rugged Laptop with Mobile Server Capability

Semi-rugged laptop. IP 53/MIL-STD-810G.

Fully customizable, operates under Windows, Linux, Unix and Solaris operating systems, with desktop or mobile server functionality.



### High-Performance Workstations

Workstations specially designed for simulation and automation environments. Configurable according to end user requirements. Operate under both Windows and Linux operating systems.



### Scalable, Multi-Purpose Entry-Level Desktop Equipment

Scalable, multi-purpose desktop unit, compatible with Windows and Linux platforms. VDI.





### MÁLAGA AEROSPACE, DEFENSE AND ELECTRONICS SYSTEMS, S.A.U.

### laval

Systems & Equipment

### Aerospace

Aerial Systems & Equipment; Satellite Systems & Equipment

Armament & Ammunition Armament; Missiles

Electronics, Communications & ICT Radars; Surveillance & Security; Systems & Equipment

manufacturing, assembly, testing, integration and life cycle support services for critical electronics systems to the main contractors in Europe and North America. The company has over 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. MADES applies Lean Manufacturing principles and adheres to its rigorous MADES Six Sigma programme. Some examples of the systems manufactured are surveillance, telemetry, radar, radio frequency, power electronics, electro-optics, target identification, along with a host of other applications.

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

### **Defence Electronics 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 support systems for navigation, communications, target acquisition, as well as support for several aerospace and defence platforms and applications.



Avenida Juan López de Peñalver, 12 29590 Málaga Tel.: +34 952249200 www.mades.es

MADES provides development,

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#### 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, is of note. 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 systems 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 a 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 guarantees.





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Ctra. Ártica, 29 31013 Berrioplano/Berriobeiti (Navarra) Tel.: +34 948346776 www.orbitalcs.com

#### **ORBITAL SISTEMAS AEROESPACIALES, S.L.**

# Electronics, Communications & ICT ector

Aerospace

Aerial Systems & Equipment; Auxiliary Industry & Spares; Satellite Systems & Equipment

Electronics, Communications & ICT C4ISR; Systems & Equipment

Simulation 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 the 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 integration.

#### **Critical Embedded Systems**

Development, integration and testing of critical software under DO178B/C standard (up to DAL-A). Experience in BSP development for various RTOS 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.

Specialized 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

## Flexible Infrastructure for Test (FIT)

FIT is a hardware architecture that manages and monitors low and medium power interfaces. 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 safetycritical requirements.



#### Critical Embedded Systems Computer

A hardware platform for critical embedded 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.



# S Λ T L 🤼 Ν T I S

## 184

Edificio Sede Parque Científico, Campus UPV Bizkaia 48940 Leioa (Vizcaya) Tel.: +34 944344780 www.satlantis.com

#### SATLANTIS MICROSATS, S.L.

Aerospace Satellites SATLANTIS is a medium-sized Spanish space technology company for Earth observation and Universe exploration, which has positioned itself as a global leader in optical technologies thanks to its advanced cameras. SATLANTIS aims to democratize access to satellite imagery with state-of-theart solutions at a fraction of the current size and cost, providing systems with resolutions between 1.65 and 0.5 m, and with innovative features such as simultaneous VNIR and SWIR spectral capture. Applications for this technology include defence, security and environmental monitoring. SATLANTIS launched its first IOD missions to the ISS with JAXA and NASA in 2020 and 2021, its first full satellite solution in May 2022, and has a contracted mission plan up to 2025.

#### iSIM-90 Camara

The iSIM-90 camera is the lightest and most compact solution of the iSIM family. Its design, compatible with integration into 12/16U CubeSats platforms, offers both high performance and low weight. The iSIM-90 camera offers a resolution of up to 1.65 m (at 500 km altitude), covering the VNIR (450-900 nm) and/or SWIR (900-1700 nm) spectral range, and can be tailored to users' needs, enabling satellite imagery and video acquisition for different applications. iSIM-90 flew on two missions in 2021 and 2022, and is scheduled to embark on another four confirmed missions from 2023 to 2024.



Electronics, Communications & ICT Sector

#### iSIM-170 Camara

The iSIM-170 camera is a solution specifically designed for microsatellites, with sub-metre resolution demonstrated in orbit. The iSIM-170 camera offers a resolution of up to 0.8 m (at 500 km altitude), covering the VNIR (450-900 nm) and/ or SWIR (900-1700 nm) spectral range, and can be tailored to users' needs to acquire satellite images and video for different applications. iSIM-170 flew on a mission to the ISS in collaboration with JAXA in 2020, acquiring more than 60,000 images, and is scheduled to embark on two more confirmed missions in 2024.

#### iSIM-300 Camara

The iSIM-300 camera is a solution for mini-satellites that is currently under development. The iSIM-300 camera is designed to offer a resolution of up to 0.5 m (at 500 km altitude), covering the PAN and VNIR spectral range (450-900 nm), and can be adjusted to users' needs, enabling the acquisition of satellite images and videos for different applications. iSIM-300 is being developed for specific applications in defence and security, and the monitoring of critical infrastructures and targets.





## Complete Solutions for Small Satellites Camera

Complete solutions for small satellites consist of a flight segment responsible for acquiring Earth observation data and the ground segment responsible for operating the satellite and for receiving, filing, processing and providing the data ready for analysis to end-users. In addition, the solution includes launch, orbiting, operations and receiving antenna. The flight segment has the added value of the iSIM family of optical cameras developed by SATLANTIS, on board nano-, micro- and minisatellite format platforms.



#### **Video Capability Camera**

The iSIM family cameras operate at a high frame rate that enables the combination of several images to generate videos from a satellite in Panchromatic channel. This capability has been tested and validated with real images generated by the iSIM-170 IOD mission. When iSIM technology is embarked on very agile satellite platforms that allow backscanning, the cameras can generate videos of several seconds, and up to 1 minute. The video capability can provide information on dynamic features and targets.



## tecnobit grupo oesía

#### **TECNOBIT, S.L.**

#### Land

Systems & Equipment; Simulation; Auxiliary Industry & Spares

Naval Systems & Equipment

#### Aerospace

Aerial Systems & Equipment; Simulation; Satellite Systems & Equipment; Auxiliary Industry & Spares

Armament & Ammunition Simulation

#### Electronics, Communications & ICT

Radars; Electronic Warfare; C4ISR; Cyber Defence; Surveillance & Security; Systems & Equipment; Simulation; Maintenance & Life Cycle Support; ICT

## 186

C/ Marie Curie, 19 28521 Madrid Tel.: +34 916617161 www.grupooesia.com

Tecnobit, belonging to the Oesía Group, specializes in the development of electronics engineering for the defence and security sectors. The company's most significant 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

#### Naval Infrared Search and Track (NIRST)

NIRST is an autonomous. 360° naval surveillance system with automatic, multiple-target detection and tracking capability, which provides coverage against air, land and sea threats. The system incorporates integrated shortand long-range sub-systems providing multispectral capability in the infrared, MWIR (medium wavelength infrared) and LWIR (long wavelength infrared) bands, as well as information from 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.



#### LINPRO - Multi Data Link Processor

LINPRO (LINk PROcessor) is an advanced Tactical Data Link (TDL) processor that processes and integrates Link 11 A/B, Link 16. Link 22. JREAP-C and VMF data links, and has dataforwarding capabilities between these protocols defined by NATO STANAGS, LINPRO is the result and evolution of nearly 20 years of knowledge and reallife 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.

#### 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)**

Vehicular V/UHF software defined radio (SDR), multi-mode (fixed frequency/frequency hopping, clear/encrypted) and multi-role based on SDR technology, certified according to SCA 2.2.2. Simultaneous transmission of voice, data, video, IP services and friendly force tracking (FFT). Hosting of up to 3 RF channels. Cognitive radio capabilities and dynamic spectrum assignment, enabling situational awareness of the electromagnetic spectrum. Multi-channel reception (MCR), enabling multiple frequencies to be received simultaneously. Mobile ad hoc networking (MANET) in order to establish self-organized radio networks.



**ARGOS System** 

The ARGOS system is a high-

performance optronic system,

observation and surveillance at

fixed installations, on ships and

camera, a visible camera and a

helicopters, etc. It is made up of a

high-performance thermal imaging

laser to measure ELRF distances.

This system has the capability to

both cameras. Electro-optical,

4-axle gyro-stabilized platform.

automatically track the image from

multi-sensor system mounted on a

intended for navigation,







# **Telefónica**

## 188

Gran Vía, 28 28013 Madrid Tel.: +34 915845301 www.telefonica.com

#### TELEFÓNICA DE ESPAÑA, S.A.U.

Land Systems & Equipment

Aerospace Satellite Services

Electronics, Communications & ICT Systems & Equipment; ICT

Logistics, Ancillary & Services Infrastructures Telefónica, with almost 100 years of experience, is one of the world's leading telecommunications service providers. The company offers services related to connectivity, both fixed and mobile, as well as a wide range of digital services. In the field of Defence and Security, Telefónica provides the Armed Forces and the State Security Forces with infrastructures for telecommunications, tactical and strategic communications, cyber defence, digital transformation and robotization of the operations area, based on IoT, cloud, big data, data governance, artificial intelligence and blockchain.

## Tactical Communications: TETRA, SDR, 5G

Telefónica supplies accurate information exchange at the right time providing information superiority in a multi-domain environment.

Telefónica provides tactical communications through three product lines: 1) TETRA radiocommunications within the State Emergency Digital Radiocommunications System (SIRDEE) programme since 2000, including terminal equipment and upgrades; 2) Software Defined Radio (SDR) in different formats, present for example in the Army's 8x8 VCRs; 3) Stand Alone 5G Communications, specific to tactical and logistical environments.



Electronics, Communications & ICT Sector

Certifications: ISO 9001 PECAL / AQAP 2110 ISO 14001

#### **Combat Tactical Cloud**

Telefónica has extensive experience in cloud computing and cloud services. It is backed by its capacity in the design, installation and operation of data centres, which are the key to processing and cloud services. Telefónica has the only public Tier IV data centre in Spain, the highest level that a data centre can reach in terms of data availability and security. It also has preferential agreements with companies such as Microsoft and Google through which they use Telefónica to provide their cloud services in the southern European reaion.

The company combines its cloud experience with capabilities in tactical communications and security.

#### Cyber Defence and Cyber Security

Design, supply, configuration and implementation of cyber defence and cyber intelligence solutions and technologies, as well as training and simulation solutions in this field for weapon systems such as frigates and submarines. Telefónica also helps its customers to protect their assets from a cyber security point of view. To this end, Telefónica has a **Digital Operations Centre (DOC)** specialized in centres of excellence that combines advanced platforms. operational processes and more than 2,300 digital experts in specific solutions in security and cloud services.

#### Information Infrastructures and Digital Transformation

Telefónica is the Ministry of Defence's partner in the configuration, installation, implementation, and technical and logistical support of data, telephony and location services and infrastructures in the Integrated Defence Information Infrastructure (I3D). In addition, Telefónica accompanies the Ministry of Defence in the digital transformation of the Armed Forces through the implementation of the harmonization platform for organizational management (ARGO), one of the Ministry of Defence's driving digitalization projects included in the 2021-2025 Public Administration Digitalization Plan.



#### **Strategic Communications:** SATCOM. Fixed and Mobile Communications

Design, installation, integration, operation and maintenance of satellite communications systems. Since 2010 Telefónica has supplied SAT-on-the-move for the Military Emergency Unit (UME) and the Spanish Army. In addition, it has provided the maintenance of SECOMSAT satellite communications equipment since 2021.







## THALES Building a future we can all trust

#### THALES PROGRAMAS DE ELECTRÓNICA Y COMUNICACIONES, S.A.U.

#### Land

Systems & Equipment; Maintenance & Life Cycle Support

laval

Systems & Equipment; Underwater Systems

#### Aerospace

RPAS; Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Electronics, Communications & ICT Electronic Warfare; C4ISR; Surveillance & Security; Systems & Equipment; ICT

Logistics, Ancillary & Services CBRN

## 190

C/ Diego Marín Aguilera, 1 28919 Leganés (Madrid) Tel.: +34 914532434 www.thalesgroup.com

Thales España is a Thales group company specialized in information systems, tactical communications, and smart surveillance and simulation solutions in the defence and security areas. The company is leader in Spain in information systems and tactical communications, covering the entire product life cycle, from design to after-sales service. Thales España employs more than 100 highly specialized people, most of them engineers. Its activities include C4ISR systems (command and control systems, communications, intelligence, surveillance and reconnaissance). secure communications and military networks, air navigation aids, smart surveillance systems, avionics, naval equipment and C-UAS systems (counter drones).

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 PECAL / AQAP 2210 UNE EN 9100 UNE EN 9110 ISO 45001

#### enhanced-C2 - C4ISR Systems

e-C2 is a set of fifth generation C4ISR systems capable of providing a common view of the battlefield at all levels of command and in all functional areas to meet information needs, integrate weapon systems, exploit sensor information, conduct simulationbased training exercises and integrate with any available communications system. It is compliant with national, NATO and MIP specifications, suitable for dual operations (civilian and military) and service-oriented.



#### SYNAPS - Software Defined Radio

The state-of-the-art SYNAPS software defined radio (SDR) family is compatible with the ESSOR European waveform in UHF band and with Thales' PR4G waveform in VHF band.

These are U/VHF radios with two channels, for land, air and naval forces and for joint operations. SYNAPS is a scalable system compatible with current radios, enabling information superiority, cross-cutting and geographical exchanges and collaborative combat.



#### GECKO - Long-Range Optronics Solution

GECKO is the long-range optronics solution by Thales España for surveillance and reconnaissance tasks, including applications such as route clearance, coastal surveillance, infrastructure protection, etc.

GECKO can be installed on tripods, masts, vehicles, fixed installations, etc. It includes two high-definition cameras –one daylight and one thermal infrared– with image stabilization and video tracking, GPS, long-range laser rangefinder and laser pointers.

#### TUUM-6 - Underwater Telephone

TUUM-6 is an underwater voice and data communications equipment for both new and existing vessels. It allows communications between different naval actors: submarines, surface ships, unmanned vehicles and divers. The equipment is compatible with STANAG 1074 and is the reference equipment in underwater communications in several navies.

### Display Keyboard Unit

Aeronautical communications management equipment for helicopters. The DKU acts as an interface between pilot and helicopter for mission control and management. It provides all the information required by the pilot, both to fly the aircraft and to ensure that the mission is successfully accomplished, and enables the control of communications means and other avionics equipment.







## axians

#### ACUNTIA, S.A.U.

C/ Valle de la Fuenfría, 3 28034 Madrid Tel.: +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 organizations as a supplier of solutions and services in IP convergence networks and secure systems and applications, supported by consulting, integration, management and externalization services.

We have more than 20 years of experience in the Spanish information and communications technology market, and we are committed to specialization and expertise in order to serve modern telecommunications infrastructures throughout their life cycle. The company is certified by the main manufacturers of the ICT market: Cisco, Extreme, Juniper, Huawei, etc.

Certifications: ISO 14001 ISO 20000 ISO 27001 ISO 9001 PECAL / AQAP 2110 ISO 45001





Avenida Somosierra, 12, 1.º, oficina A 28703 San Sebastián de los Reyes (Madrid) Tel.: +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. We optimally integrate the best technologies to create competitive advantages for our customers. We also form a highly specialized team together with our suppliers.

Certifications:

PECAL / AQAP 2110

ISO 166002

ISO 14001

ISO 9001



#### ALCORCE TELECOMUNICACIONES, S.L.

Avenida de las Águilas, 2 B, oficinas 4-8 28044 Madrid Tel.: +34 917106310 www.alcorce.es

A Spanish company that has been in the market for over 20 years. We provide:

- Solutions and services in the Information and Communications Technology (ICT) sector.
- Deployment and commissioning of core and access networking equipment: Cisco, Juniper, etc.
- Implementation, commissioning, optimization and auditing of Fortinet, Palo Alto, CheckPoint, Allot equipment and SIEM platforms.
- Professional services for migration to cloud environments. Servers, databases, firewall, networking.
- Process consultancy for automation.
- Professional services for machine learning projects. Big data projects.
- Certified in services by the main manufacturers: Cisco, Huawei, Juniper, Extreme Networks.
- Distribution and implementation of database encryption solutions.

	150 140
Certifications:	ISO 200
ISO 9001	ISO 270
ISO 14001	CMMI
ISO 27001	ISO 223



#### ALHAMBRA SYSTEMS, S.A.

C/ Albasanz, 16, 4.ª 28037 Madrid Tel.: +34 917872300 www.alhambrait.com

Alhambra is an IT company that helps any type of organization 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 specialization in the financial management systems of the Public Administration. Furthermore, it is recognized as having highly qualified professionals who share its original values: customer satisfaction, commitment, continuous improvement in service quality and innovation.

Certifications: ISO 9001 ISO 14001 ISO 20000 ISO 27001 CMMI ISO 22301



#### **ARTEIXO TELECOM, S.A.**

Pol. Ind. de Penapurreira, Parcelas B1-B2 15320 As Pontes de García Rodríguez (A Coruña) Tel.: +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券

#### AUTEK INGENIERÍA, S.L.

Avenida de Burgos, 9, oficina 1 28036 Madrid Tel.: +34 915974629 www.autek.es

Autek is a Spanish manufacturer of cyber security products, specializing in secure information exchange across different security domains. For over 20 years, it has been developing information security solutions for organizations 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 closely with our customers in the development of new solutions for any secure information exchange issues.



## BLANCH INTERNACIONAL & ASOCIADOS, S.L.

C/ Almanzora, 18 C 28023 Madrid Tel.: +34 917400056 www.blanch-internacional.com

Blanch Internacional y Asociados (BIA), a Spanish company with offices in Spain and Portugal and founded 20 years ago, specializes in R&D&i and the supply of high-tech systems for defence and armed forces, including integrated logistics support.

BIA is one of the largest suppliers of electrooptical equipment, thermal imagers, laser designators and night vision devices 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 to ensure the life cycle of our systems and customer satisfaction.



#### CENTRO REGIONAL DE SERVICIOS AVANZADOS, S.A.

Plaza Santo Domingo de Guzmán, 1, planta 6.ª 09004 Burgos Tel.: +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 focused 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.
- Administration.
- Banking and Stock Exchange.
- Health and Social Services.

Certifications: ISO 27001 ISO 20000 ISO 14001 ISO 9001 ENS - NATIONAL SECURITY SCHEME

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110

Certifications: ISO 9001

## aeromarine

#### COMPUTERS AND COMMUNICATIONS AEROMARINE, S.A.

Avenida Pío XII, 10-12, bajo 28016 Madrid Tel.: +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.



#### COTECO INFORMÁTICA INTERNACIONAL, S.L.

C/Cristóbal Bordiú, 35 OFIC. 406-408 28003 Madrid Tel.: +34 915347982 www.cotecoint.com

Specialists in technology consulting and talent management, TV and video broadcasting and satellite transmission. Video and news production services. Specialized in international defence and security environments



#### **ELECTROSONI, S.L.**

Avenida de Monelos, 107 entreplanta 15009 A Coruña Tel.: +34 981177935

Electrosoni, S.L. is a company established in 1980 and currently engaged in the design, manufacturing, technical support for and maintenance of equipment for electronic countermeasures for the State Security Forces and the Ministry of Defence. The company also has a specialized group that provides technical support to the legal interception systems of the State Security Forces.



#### EXCEM GRUPO 1971, S.A.

Paseo de la Castellana, 93, planta 9.ª 28046 Madrid Tel.: +34 914174620 www.excem.es/

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 advisory services for large organizations. 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.

Certifications: ISO 9001 ISO 14001 ISO 27001

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



#### FUNDACIÓN CENTRO TECNOLOXICO DE TELECOMUNICACIONS DE GALICIA

Ctra. Vilar 56-58 36214 Vigo (Pontevedra) Tel.: +34 986120430 www.gradiant.org

At Gradiant, we incorporate our vision and knowledge of telecommunication technologies into the processes and products that companies develop. We bring our expertise from the point of view of connectivity, intelligence and security to work hand in hand with the industry from our surroundings.

Certifications: ISO 9001 ISO 166002 ISO 27001



#### FUTURE SPACE, S.A.

Avenida Tenerife, 2 28703 San Sebastián de los Reyes (Madrid) Tel.: +34 916586609 www.futurespace.es

Future Space is a Spanish company specialized in developing software solutions and services and in providing data analytics services. We have more than 25 years of experience in the defence sector and we have established relationships of trust with our customers that allow us to offer:

- Advanced application analytics in the industrial sector of national defence.
- Sensorization of industrial plants and generation of data projects on the plant.
- Software integration in Industry 4.0 projects.
- Digital Twin in industry projects.
- Development of intelligence analytics solutions for LEAs and defence agencies.
- Provision of open source analytical and intelligence services (OSINT) together with cyber intelligence and Red Team capabilities.



#### I.C.A. INFORMÁTICA Y COMUNICACIONES AVANZADAS, S.L.

C/ La Rábida, 27 28039 Madrid Tel.: +34 913119844 www.grupoica.com

The ICA Group was founded in 1983, is 100% Spanish-owned and made up of over 650 professionals. It focuses its business activity on ICT security engineering, cyber defence, consulting, networks, systems and software development. Since 2000, the ICA Group has been developing the following proprietary cyber security products and services:

- LogICA and 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. Certified services: ISO 27001, ISO 9001, ISO 20000, High-level National Security Scheme (ENS).
   Certifications:
   ISO 9001, ISO 14001, CMMI, EFR 1000-1

## Entelgy Innotec

#### **INNOTEC SYSTEM, S.L.U.**

Calle Orense, 70 28020 Madrid Tel.: +34 914251111 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.

Certifications: ISO 22301 ISO 27001 ENS - NATIONAL SECURITY SCHEME

Certifications: ISO 14001 ISO 20000 ENS - NATIONAL SECURITY SCHEME ISO 9001 ISO 27001 Ingloba Seguridad

## INNOVACIÓN GLOBAL DE SEGURIDAD, S.A.

C/ Pierre Curie, 17 28806 Alcalá de Henares (Madrid) Tel.: +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, comprising two mid-range radar systems with an optronic system (thermal and visible camera), unattended detectors and command and control software.

#### Certifications: ISO 14001

ISO 9001 ISO 45001 ISO 27001

## SURCONTROL

INSTRUMENTACIÓN Y CONTROL DEL SUR, S.L.

C/ Manantial 13, nave 4 11500 El Puerto de Santa María (Cádiz) Tel.: +34 956833700 www.surcontrol.com

Surcontrol is a company specialized in automation engineering, control, system supervision, robotic cells and digitalization. We implement advanced solutions, giving priority to continuous research and innovation in our products and services.

Automation has always been our core business; we program PLCs to incorporate them into the control panels we develop. We carry out our own engineering and make our own electrical/ control panels.

Robotics. Development and integration of industrial and collaborative robots in production lines. Additive design and manufacturing. Digitalization platform. Visualizes, manages and controls all assets, fully modular and adapted to your needs. Includes remote assistance and performance prediction module. Real time crane control.

## S INTEGRASYS

#### **INTEGRASYS, S.A.**

Calle Jose Echegara, 8 28232 Las Rozas (Madrid) Tel.: +34 916316846 www.integrasys-sa.com

INTEGRASYS was established in 1990. The company was founded by the Marquess of Antella and a team of Hewlett Packard engineers, who spun off to develop automated signal monitoring for the government. Since then, the company has specialized in developing technologies to streamline communications, especially in satellite network environments and remote areas. INTEGRASYS is an engineering and software development company specializing in the design, deployment, maintenance, and interference mitigation tools for the monitoring of critical satellite infrastructures in the commercial and defence fields. The company offers a wide range of signal monitoring and deployment products, maintenance and cost-effective link calculation solutions for telecommunications companies and suppliers.



#### J.P. ALCARAZ ELECTRÓNICA, S.L.

C/Berlín, Nave 1, parcela B2, Pol. Ind. Cabezo Baeza 30353 Cartagena (Murcia) Tel.: +34 968324005 www.jpalcaraz.es

J.P. Alcaraz Electrónica, a company with extensive experience in working for the Spanish Navy since 1995, has developed progressively in different areas, always within the supply, installation and repair of electronic and telecommunications equipment, as well as underwater communications. Since 2000, the company has expanded its field of action towards customers and activities in the industrial and service fields, as well as the public naval sector.

Currently specialized in the maintenance and repair of naval and industrial electronic equipment, hyperbaric chambers and pressure systems, LV electrical equipment, navigation systems, rescue and internal security systems, access control systems and CCTV.

Certifications: ISO 9001 ISO 14001 ISO 45001

Certifications: CMMI Certifications: ISO 9001 ISO 14001 ISO 45001



#### JOJACAR TELECOMUNICACIONES, S.L.

C/ Lérida, 9, local 1 28020 Madrid Tel.: +34 915722927 www.jojacar.com

Jojacar Telecomunicaciones is formed by a group of professional engineers and experts in the economic field with an understanding of the demands of the electrical and electronics sector, and particularly the telecommunications sector. Therefore, in the field of telecommunications we specialize in the installation and maintenance of radio links, HF antennas, infrastructures and associated electronic equipment. We also specialize in intelligent data networks, including installation and certification, in addition to structured cabling, state-of-the-art fibre optic links and all the necessary instrumentation.



#### MILETHOS TECHNOLOGIES, S.L.

C\ Manantial 13, oficina 138 11500 El Puerto de Santa María (Cádiz) Tel.: +34 956053061 www.milethos.com

Milethos Technologies is a company specializing in software consulting and engineering, founded in 2004. At Milethos Technologies, we offer our customers technological solutions in 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.



## MNEMO, EVOLUTION & INTEGRATION SERVICES, S.A.

C/ Cardenal Marcelo Spínola, 14, 5.ª planta 28016 Madrid Tel.: +34 914176776 www.mnemo.com

MNEMO is a private Spanish company founded in 2001. It has over 700 employees, is headquartered in Madrid (Spain) and has 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 that are officially CERT-approved (Computer Emergency Response Team), and is a member of FIRST. These centres are specialized in electronic fraud (focused on the financial sector) and in the preventive protection of SCADA systems at critical infrastructures.



#### **MOLLITIAM INDUSTRIES, S.L.**

C/Jarama, 132 - Edif. Sing. 4.03 - bajo c 45007 Toledo Tel.: +34 925245940 https://www.mollitiamindustries.com

Mollitiam (incorporated in Spain in August 2018 with 100% Spanish capital) is the result of the integration of capabilities of two Spanish companies with more than 15 years of experience in the development of software services and tools for defence and cyber security.

Mollitiam's activity as a provider of cyber intelligence software solutions in the cyber security and cyber defence industry is mainly based on the sale of its technology to governments and public institutions as well as international companies.

In addition to public institutions, Mollitiam positions itself in multinational projects such as the so-called "special projects" (projects in which a country, institution, company or events of special relevance are provided with a series of capabilities in the cyber environment).

Certifications: ISO 14001 ISO 9001

Certifications: ISO 9001 Certifications: ISO 14001 ISO 27001 ISO 9001 ISO 22301 ISO 20000



#### NEXTRET, S.L.

Avenida del General Perón, 27 28020 Madrid Tel.: +34 917021645 www.nextret.net

NexTReT is an IT consulting company engaged in optimizing 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 (ISO 9001, ISO 14001, ISO 20000-1, ISO 27001) 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) Tel.: +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 organizations. The teleport facilities are built to the highest standards of security and resilience and are operated 24/7 to provide critical communications services. There is also a secure technical room built according to NATO standards. Santander Teleport is committed to maintaining the highest quality standards. Its services include VSAT managed 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 2.ª, local 8 28041 Madrid Tel.: +34 915003829 www.siadde.es

An innovative and global partner providing technology solutions and services in communications and information technologies to private companies and public bodies. We have distinguished ourselves by developing and implementing turnkey projects to offer cutting-edge project and service integration techniques, making a firm commitment to innovation and continuous improvement in procedures that provide efficiency and profitability.

We design and implement systems in various ICT fields, managing the complete life cycle of the project, and providing the added value of systems integration capability with global engineering, software development, implementation and installation, commissioning, maintenance and documentation.



#### SISTEMAS AVANZADOS DE TECNOLOGÍA, S.A.

Avd. Europa, 34.ª 28023 Madrid Tel.: +34 917089000 www.satec.es

SATEC, Sistemas Avanzados de Tecnología, S.A., is a Spanish multinational company that integrates technological solutions and specializes in advanced services associated with new information technologies.

Certifications: ISO 14001 ISO 27001 ISO 9001 ISO 15504 ISO 20000 ENS - NATIONAL SECURITY SCHEME

Certifications: ISO 9001 ISO 27001 Certifications: ISO 9001 ISO 14001 ISO 27001 ISO 20000

Certifications: ISO 9001 ISO 20000 ISO 27001 ISO 14001



#### TAISA SYVALUE, S.L.

Avenida de la Victoria, 23 28224 Madrid Tel.: +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.

#### Certifications: ISO 14001 ISO 9001 ISO 20000 ISO 27001 ISO 45001



#### **TEDITRONIC, S.L.**

Avenida Luxemburgo, parcela G7 Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Tel.: +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. Maintaining a close relationship with our customers, we are committed to individual attention to each customer's 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.
- Firefighting, detection and extinguishing systems.
- Repair of electronic equipment.
- Renewable energies.
  Constantly evolving, Teditronic, S.L. continues

to strengthen its position in the national market, while remaining committed to internationalization.



#### **TELTRONIC, S.A.U.**

Pol. Malpica, C/F-oeste 50016 Zaragoza Tel.: +34 976465656 www.teltronic.es

With over 50 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 customization capacity allow it to adapt to the specific needs of each project.

It has a full range of communications solutions, including TETRA, LTE and 5G infrastructures, vehicular and portable terminals, control and dispatch centres and video surveillance solutions. With over 600 networks in more than 60 countries, it has extensive experience with governments and defence agencies worldwide.



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

C/Rivas, 10 28820 Coslada (Madrid) Te. +34 916722731 www.temai-ingenieros.com

Design, development, manufacture 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.

Manufacture of electro-mechanical equipment for the aerospace sector.

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

Certifications: ISO 45001 ISO 14001 ISO 9001 Certifications: ISO 9001 UNE EN 9100 EASA



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#### **TICOMSA SISTEMAS, S.L.**

C/ Budapest, 108, Pol. Ind. Cabezo Beaza, Apdo. 2100 30353 Cartagena (Murcia) Tel.: +34 968324228 www.ticomsa.com

Ticomsa Sistemas, S.L. is an engineering firm specializing in the global integration of communications systems, focusing on the design, installation and maintenance of converged solutions in the following areas:

- 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.

The research and development of new products and the global integration of tailored systems for our customers, together with a highly qualified and flexible working team, enable 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 Tel.: +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 specialized software developer, integrator and technology provider, focusing its activity on the following areas:

- Integration of systems and telecommunications technology (networking, mobility platforms, virtualization, hyperconvergence, hosting and cloud services).
- Cyber security services and implementation of vendor technology.
- Deployment of IT infrastructure (SCS, security systems, audiovisual systems, data centre, electrical installations and air conditioning, BMS, TViP, etc.).
- Development of software and specialized applications in three R&D&i centres in Spain.
- Voice and connectivity operator.
- Electronic warfare systems. Development of drone detection and intervention technology.

Certifications:
ISO 14001
ISO 15504
ISO 9001
ISO 20000
ISO 27001
ISO 45001
ENS - NATIONAL SECURITY SCHEME







## Logistics, Ancillary and Services Sector

# aac

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

Aerospace

RPAS; Aerial Systems & Equipment; Maintenance & Life Cycle Support; Satellites; Satellite Systems & Equipment

Electronics, Communications & ICT Cyber Defence; ICT

Logistics, Ancillary & Services Infrastructures; Services

Consulting & Engineering Consulting & Engineering 204

C/ Marie Curie, 2 P. T. La Cartuja 41092 Sevilla Tel.: +34 954467046 www.ayesa.com

Ayesa Air Control provides aeronautical engineering services throughout 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 in accordance with the 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

ISO 45001

PERAM 21 (MILITARY DESIGN ORGANIZATION)

#### Aeronautical Engineering Services

Aeronautical engineering services covering the whole life cycle of aeronautical products. EASA DOA Part 21J.428 and UNE:EN 9100 certifications. Experts in the A400M.



Logistics, Ancillary & Services Sector

#### **Software Engineering**

Specialized engineering in communications and information technologies, especially big data, business analytics, special software development, data management, DPCs and cyber security.



#### Civil Engineering and Infrastructures

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





#### CIMSA INGENIERÍA DE SISTEMAS, S.A.

Aerospace Aerial Systems & Equipment S.A. specializes in the design, development, production, maintenance and marketing of textile structures and deceleration systems, stabilizers, lifting systems, flotation systems, security and communications systems, positioning and guidance systems. The company is also engaged in the marketing of technical garments and military parachute components and accessories.

CIMSA Ingeniería de Sistemas,

Paseo de la Castellana, 115, 3.º izq.

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28046 Madrid Tel.: +34 915631744 www.cimsa.com

#### 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 up to 150 knots, with a descent rate of 4.92 metres 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. tactical configurations up to 260 kg





**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



#### EF-2000 Aircraft Brake Parachute

CIMSA Ingeniería de Sistemas, S.L. 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 enables the combination of 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.





#### **EL CORTE INGLÉS, S.A**

Logistics, Ancillary & Services Field Logistics; Infrastructures; CBRN; Uniforms & Equipment; Auxiliary Industry & Machinery; Consumer Goods; Other At El Corte Inglés Business Division, we are experts in offering solutions to companies and public institutions because we share our customers' desire to ensure that important projects turn out well. More than 50 years of working with professionals from many sectors has given us the necessary experience to guarantee high guality and assurance in all types of projects. At El Corte Inglés Business 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 Business Division, because our customers have the peace of mind that comes from being in the hands of an innovative and expert team of people.

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C/ Hermosilla, 112 28009 Madrid Tel.: +34 914000700 www.elcorteingles.es

Certifications: ISO 14001 PECAL / AQAP 2110 ISO 9001 ISO 45001

## Military Uniforms and Accessories

Meeting the protection, safety, comfort and functionality requirements of users, in addition to transmitting the right image.

- Standardized image.
- Workwear.
- Uniforms for groups.
- Footwear and accessories.
- PPE.
- Process phases:
- Contact with the customer.
- Design and development of the uniform.
- Management of the operation.
- Information on the operation and logistics.



Logistics, Ancillary & Services Sector

#### **Furniture**

Advice on the most suitable equipment, customizing the best solutions to achieve the best performance.

- General furniture.
- Hospitality.
- Healthcare.
- Education.
- Office.
- Clinic and laboratory.



#### Audiovisual Equipment

Providing the customer with all the latest market innovations in electronics, audiovisual and office equipment for their workplace.



#### **Industrial Kitchens**

Design and installation of the materials required to equip a kitchen according to the needs of each business: restaurants, hotels, groups, 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 specialized professionals offers advice and service, from project planning to delivery of the finished project.



#### **Tableware**

A range of items from leading brands to equip kitchens, dining rooms, cafeterias, self-service diners. Crockery, glassware, cutlery, silverware, buffet items, tableware for groups and kitchenware.





EQUIPOS MÓVILES DE CAMPAÑA

#### EQUIPOS MÓVILES DE CAMPAÑA ARPA, S.A.U.

Land Systems & Equipment

Armament & Ammunition Auxiliary Industry & Spares

Electronics, Communications & ICT Systems & Equipment; Surveillance & Security

Logistics, Ancillary & Services Field Logistics; Infrastructures; CBRN; Uniforms & Equipment; Health & Medicine; Auxiliary Industry & Machinery EMC ARPA designs, manufactures and markets logistics solutions for diverse types of mobile platforms such as containers, trailers, modular architecture and field tents, creating innovative solutions for military logistics, field hospitals and camps, providing global logistics such as kitchens, tents, ammunition containers, logistic trailers, hangars or medical infrastructures.

Pol. Centrovía. C/ La Habana, 25 50198 La Muela (Zaragoza) Tel.: +34 976144770 www.arpaemc.com

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ARPA's solutions are or have been deployed in multiple international peacekeeping missions, thus forming a part of the logistics for numerous armed forces and international organizations. It has delivered totally equipped and ready-to-use (turnkey), integral projects.

#### **Containerized Field Hospitals**

ARPA designs and develops customized field hospitals comprising 100 to 500 beds, incorporating the necessary medical specialities in 20' containers (single or expandable) that allow rapid deployment and assembly with an unsurpassed level of quality and technology. The use of containers improves comfort, functionality and asepsis control 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 refrigeration chamber and a freezer chamber.

Stainless steel equipment.



#### Camps

ARPA develops comprehensive projects such as military camps, refugee camps, living areas, mining and petroleum industry camps and civilian camps for NGOs and youth organizations, therefore incorporating all the necessary services for deployment and operation.



#### **Various Trailer Models**

Light logistic trailers suitable for military and civilian use, to cover any logistic support need (from food, hygiene, energy or water, to general transport).

ARPA has trailers for kitchens, laundry, showers, refrigerators, water tanks, cargo, power generators, etc. One of the most innovative solutions to date is a solar-powered water purification plant.

Reliable, low-maintenance and towable by any type of military vehicle with NATO connection.



#### **Data Processing Centre**

A data protection centre is the infrastructure in which specific facilities are concentrated to house computer servers in a fully controlled operating environment to ensure that they never cease to be operational.





#### FÁBRICA ESPAÑOLA DE CONFECCIONES, S.A.

Logistics, Ancillary & Services CBRN; Uniforms & Equipment FECSA is a company belonging to the textile industry. It was founded in 1934, is Spanishowned, has 158 employees and holds internationally recognized certifications.

28703 San Sebastián de los Reyes (Madrid)

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C/ Acacias, 3

Tel.: +34 916523400 www.fecsa.net

Our customers belong mainly to the defence and security forces sector (70%), as well as the corporate image sector (30%), at national and international level, including international organizations.

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. Salt water immersion for 12 hours. Ageing cycles and solar radiation.

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# Logistics, Ancillary & Services Sector

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110

## Bullet-Proof Vests for Internal and External Use

Anti-fragment and bullet-proof combat vest with short and/or long weapon protection, according to NIJ procedures; protection of different areas; adjusted weight; minimum thickness; improved breathability; MOLLE type attachment 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.

AIRCREW FR FLYING UNIFORM



Sleeping systems manufactured with a variety of camouflages, including medium-weight and lightweight sleeping bags, sheet bags, compression sacks, and bivouac roofs, mats and covers. 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 carbonized fabric.



## hispan

## 214

Pol. San Valero, nave 70 50013 Zaragoza Tel.: +34 976454418 www.hispanovema.es

#### **HISPANO VEMA, S.L.**

Land Systems & Equipment

Logistics, Ancillary & Services CBRN; Health & Medicine Hispano Vema is a Spanish company with more than 20 years of specialized experience in the defence, security and emergencies sector. Innovation, the highest quality standards in manufacturing (ISO and STANAG) and the development of tailored solutions to customer needs are its hallmarks and have allowed it to position its systems as a reference in terms of operational capabilities, interoperability and sustainability. Close collaboration with armed forces, security and emergency agencies, and international organizations has enabled the development of projects in more than 40 countries, and has consolidated Hispano Vema as an international benchmark in its areas of activity: CBRN decontamination and collective protection (COLPRO) Field Logistics Systems Field Hospitals Water Treatment Logistic Accessories

Certifications: ISO 9001 PECAL / AQAP 2110

## **CBRN** Decontamination and Collective Protection

Multi-function decontamination systems for the management of incidents with chemical, biological or radiological agents, for the decontamination of people and vehicles, materials, equipment and land, as well as the decontamination of critical infrastructures (electronic equipment and sensitive material). Full range of CBRN decontamination solutions: decontamination equipment (portable and autonomous), mobile decon stations and mass decon stations, as well as a wide range of decontamination agents.



Logistics, Ancillary & Services Sector

#### **Field Logistics Systems**

Development of field logistics systems for military or emergency deployments, with minimum logistic footprint. Developed in accordance with STANAGs to ensure maximum interoperability and modularity in any type of deployment or mission. Systems developed and integrated in tents, containers or trailers. Covering the full range of logistics capabilities required in theatres of operations: accommodation, command posts, telecommunications, food, storage, hygiene, energy, transport, etc. Individual systems and equipment as well as complete turnkey camp solutions.



#### **Field Hospitals**

Field Hospitals for military or emergency deployments, with rapid deployment and minimal logistics footprint. Fully scalable according to customer needs, both in their configuration and in their medical response capabilities (Role 1, Role 2 or Role 3). Developed according to STANAGs to ensure maximum interoperability. Turnkey solutions, both in the field hospital structure (in containers or tents) as well as in the medical equipment and the necessary ancillary services (food, hygiene, energy, telecommunications, etc.).



#### Water Treatment

Mobile systems for water treatment in missions or theatres of operations, following a holistic point of view: Purification, storage, distribution and treatment of wastewater generated. Innovative HYDROS mobile portable water purifier provides up to 1,000 litres of drinking water per hour, thanks to its disruptive nanofiltration technology. A milestone both in sustainability (zero emissions) and in operations (plug-and-play system without the need for specialized personnel or chemical products).



#### Logistic Accessories and Special Shelters

Complete set of systems to optimize interoperability in any deployment or mission, covering a wide range of operational needs: storage and transport management (SOLUX), lighting systems, container handling, portable incinerator, etc. The SOLUX system provides the ultimate solution for the storage, transport and distribution of all types of materials in the fields of logistics, health, telecommunications, etc., for both operational and logistics units,

thanks to its revolutionary integral modular system.

The special shelters are designed and manufactured individually, adapting to the customer's specific operational needs.





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Camino Robledo de Chavela, 98 28210 Valdemorillo (Madrid) Tel.: +34 918990990 www.i-4s.com

#### **INNOVATION FOR SHELTER, S.L.**

Electronics, Communications & ICT Surveillance & Security

Logistics, Ancillary & Services CBRN; Uniforms & Equipment; Health & Medicine I-4S was established in 2000 by professionals with 20 years of experience in the sectors of defence and civil protection for the design and manufacturing of materials for field logistics and CBRN. Most of our customers are from NATO countries. Our activity includes the manufacturing and maintenance of field tents with a guick-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 decontamination units, collective CBRN protection (COLPRO) and individual CBRN protection. The company has an eCat1 framework agreement with the NSPA (No. LB-IFS-03) for our tent items.

Certifications: ISO 9001 ISO 14001 PECAL / AQAP 2110
#### **Camp and Field Logistics**

The TV tent represents the new tent system with an external frame. Set-up and fold-down are safe, quick and easy, requiring no tools. Vertical walls for more interior space. Can be used for all applications, including: command posts, field camps, hospitals, COLPRO. Compatible and connectable with other models. Logistics benefits: reduced weight and volume, transport, storage. Models: T18V (3x6m), T36V (6x6m), T54V (9x6m).





#### **ITURRI, S.A.**

Land Vehicles; Systems & Equipment

Aerospace Maintenance & Life Cycle Support

Logistics, Ancillary & Services CBRN; Uniforms & Equipment; Auxiliary Industry & Machinery; Other The ITURRI Group is committed to specialization 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.

Avenida Roberto Osborne, 5

218

41007 Sevilla Tel.: +34 670990979 www.iturri.com

We are committed to the manufacturing of technical workwear, 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.

Certifications: PECAL / AQAP 2110 ISO 14001 ISO 9001 ISO 27001 ISO 45001 EN ISO 14065

#### **4X4 Vehicle**

VIM 4x4 vehicle, TGS 18,400 BB (4x4) model 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 servoassisted steering. Barkematic drum brakes and ABS system. Front and rear suspension. 220-I diesel tank.



Logistics, Ancillary & Services Sector

## Injected Footwear

Operational military footwear, for combat and assault use.

- Multi-terrain.
- Calf-length boot with lace hooks closing system.
- Manufactured by direct injection moulding.



#### Lightweight, Camouflaged Rain Suit

Ample and lightweight garment. Protection from the weather with great comfort due to its light weight and breathability. Central, waterrepellent zip, polar fleece lining inside 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. PPEcertified: EN ISO 11612:2008 (protective clothing against heat and flames) and UNE-EN 15614:2007 (protective clothing for forest firefighters), main fabric with high mechanical resistance (ripstop), lower leg made of special fabric for protection against incandescent materials, fire-resistant rescue tape hidden on upper back, self-extinguishing retro-reflective bands on front, back, sleeves and legs.



#### Flame Resistant Combat Gloves

Dry fireproof combat gloves:

- Lightweight, short, great adaptation to the hand and maximum dexterity (level 5).
- Nomex<sup>®</sup> fabric on back and between fingertips, with leather reinforcement on fingertips and impact protection reinforcement.
- Rigid knuckle protector.
- Leather strap with Velcro<sup>®</sup> for cuff adjustment.
- Reinforced thumb with high grip capacity.
- Leather palm, with digital leather reinforcement for high grip and flexibility.
- High abrasion-resistant ceramic fabric.





#### **METALMECÁNICAS HERJIMAR, S.L.**

#### Naval

Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares

Logistics, Ancillary & Services Infrastructures; Auxiliary Industry & Machinery; Services Metalmecánicas Herjimar was created from a family business, which has been carrying out construction, repair, assembly and maintenance activities for the industrial and transport sectors naval, road, railway- for more than forty years, becoming a metalmechanical services company. Metalmecánicas Herjimar is a company that has based its strategy on the promotion of R&D&i, quality and customer service, which has enabled 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 in terms of flexibility and levels of customer service. applying the most appropriate formula at all times.

30369 Cartagena (Murcia) Tel.: +34 968147528

www.herjimar.com

Certifications: ISO 14001 ISO 9001 ISO 45001

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#### **Submarines**

Calle Manganeso, 78-86 Polígono Industrial los Camachos

An ancillary company of Navantia in the construction and installation of the S-80 class submarines for the Spanish Navy. An ancillary company of the DCN shipyards (France) and the Navantia shipyards in the construction of the Scorpène-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 the expansion of Navantia's floating dry dock.



#### Construction of Lighthouses and Maritime Signalling Beacons

Construction of towers and beacons in various sizes up to 35 metres high in stainless steel and galvanized steel, prepared for storms and typhoons. Located and currently in operation in Indonesia, Vietnam, Cape Verde, Yemen and Peru. Construction of autonomous buoys (solar panel) in carbon steel of various diameters and dimensions. with signalling tower at various heights and with 4 anchoring points to the bottom. Located in the docks of Cartagena and Escombreras (Spain), Colombia and Nicaragua. Construction of lighthouse domes in stainless steel or galvanized steel mounted on the Portman and Cabo Tiñoso lighthouses (Cartagena).



#### Boilermaking

- Ancillary company of various national construction companies in the new expansion of the Cartagena Refinery.
- Ancillary company in the construction of solar and cogeneration plants in Spain.
- Construction of formwork and metal formwork for prefabricated elements.
- Boilermaking (tanks, pressure vessels, silos, pipes, metal structures, etc.).
- Construction and machining of all types (shafts, flanges, bearings, gears, etc.).



#### Naval and Industrial Maintenance

Dismantling, overhaul and commissioning of pneumatic and hydraulic equipment and systems, engines, fluid pumps, compressors, fans, turbines, and pumping installations in general. Repair and commissioning of conveyor belts, excavator shovels, gantry cranes, harbour crane grapples, hoppers, and storage tanks.

Overhaul and maintenance of central crude distillation units, thermal power plants, and gas storage plants. Ancillary services for large assemblies.



#### **Maritime Signalling Buoys**

Construction of maritime signalling beacons and buoys in various shapes and sizes. Construction of mooring buoys for mooring large tonnage vessels. Construction of luminous buoys. Construction of medium and longrange rotating buoys.





#### PARAFLY, S.A.

Aerospace Aerial Systems & Equipment

Logistics, Ancillary & Services Uniforms & Equipment; Other

company, founded in 1986, specialized in the design, development and manufacture of different equipment of basically textile origin for military applications, as well as the different complementary mechanical, pyrotechnical and electronics systems. Within its sector, PARAFLY, S.A. is considered one of the ten companies worldwide with the greatest technological and innovative capacity, having participated both individually and as a subcontractor in major national and international projects. Some examples are its selection by the Pentagon as a company of scientific and technological interest, or its participation as an official contractor in the Eurofighter programme.

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C/ Isaac Newton, 3

PARAFLY, S.A., is a Spanish

28760 Tres Cantos (Madrid) Tel.: +34 918039699 www.parafly.com

#### **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 proprietary designs has been selected by the US Department of Defense to take part in the FCT programme (Foreign Comparative Testing), for the ATPS (Advanced Tactical Parachute System) project.



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 manufacture 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 suppliers 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 in the most notable Spanish projects: SIVA recovery system; ALO recovery system; ALBA recovery system; and SCRAB recovery system. PARAFLY has reached another milestone with these projects and has achieved 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 leader at national level, having great experience in the development, production, integration and maintenance of complex systems of parachutes, stabilizers and their complements for different types of aviation weapons, braked or super braked and for different types of illuminating ammunition. PARAFLY has sufficient capacity to meet the current needs of the different armament industries within this sector.





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C/ Marqués de Monteagudo, 24 28028 Madrid Tel.: +34 913610041 www.sintersa.es

#### SISTEMAS DE INTERCONEXIÓN, S.A

Land Systems & Equipment

Naval Systems & Equipment

Aerospace Aerial Systems & Equipment; Satellites

Armament & Ammunition Armament; Missiles

Electronics, Communications & ICT C4ISR; Systems & Equipment SINTERSA was established 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 wire harnesses and equipment, both in Madrid (4.000 m<sup>2</sup>) and Seville (2,000 m<sup>2</sup>). It holds the most important military certifications and is present in the main international aeronautical and military projects (Airbus, Bombardier, Embraer, Boeing, GD, Navantia, Escribano, Sener, Cesa, Indra. etc.). SINTERSA has capabilities in production engineering, aeronautical assembly. EMI/RFI wire mesh technology, laser marking of electrical wires, continuity and insulation testing of complete systems and calibration and repair of crimpers. The company has a capacity of 260,000 manufacturing hours and an available manufacturing space of 7,000 m<sup>2</sup>.

Certifications: UNE EN 9100 ISO 9001 PECAL / AQAP 2110

#### Wire Harnesses and Connection Sub-Assemblies

Design and manufacture of wire harnesses and electrical subassemblies, aeronautical and military control units, test benches, communication racks, lightweight cabling, fibre optic solutions for tactical deployments, and customized cable development. Solutions for the interconnection of equipment for turrets, electronic warfare, 3D radar, missiles, military vehicles, UAVs, communications and power supply, etc. High performance wire harnesses for demanding requirements (watertight, temperature -55°C/200°C, resistant to hydraulic fluids, vibrations, EMI/RFI). SINTERSA guarantees a high level of quality and production capacity.



Logistics, Ancillary & Services Sector

#### **Electrical Connectors**

Circular connectors under military specifications for power and

allation egration on 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

Team specialized in the electrical installation and termination of connectors on aircraft. Aeronautical assembly of wire harnesses, supports and structural assemblies. Electrical assembly, manual continuity testing, testing and operational testing, mechanical and electrical repair work, deinstallation and installation of panels and piping. Assembly on military vehicles, redistribution of equipment, wiring design and installation, manual continuity testing.



Custom-designed connectors, especially for resistance to high temperatures, vibrations and pressure. Aluminium, stainless steel or bronze connectors. Cadmium

bronze connectors. Cadmium or nickel plating under RoHS specifications 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.



#### Electrical Harness Construction Tools

Crimping tools for all types of contacts for connector assembly. Tools manufactured to military specifications (M22520). Tool kits. Electrical testing machines for

continuity and insulation. Design and manufacture of special harnesses and electrical testing. Special strippers for shielded military cables.

Machines for Band-IT and shielded backshells.

Crimp tension testing tools. Go/no-go calibration tools. SINTERSA offers tools and manuals for military cabling processes.





#### UNION CASTELLANA DE ALIMENTACIÓN, S.A.

Logistics, Ancillary & Services Food

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C/ Oquendo, 23, 4.ª planta 28006 Madrid Tel.: +34 917813780 www.ucalsa.com

UCALSA is an integral management services company that operates both nationally and internationally, with special experience in difficult or conflict areas. UCALSA is in charge of the 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 in large projects and in critical situations (wars, natural disasters, instability), which is why it incorporates risk in its operating plan. UCALSA's mission is to provide the necessary services so that customers can focus on their main activity.

#### Certifications: ISO 9001 ISO 14001 ISO 45001 ISO 22000 ISO 28000

#### **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.

Customized packages according to the group/season. UCALSA produces field rations adapted to the diverse cultural conditions of the users: Western, Hindu, vegetarian, Halal (Muslim).

**Field Rations** 



#### Meal Service, Home Help, Social and Healthcare Services

UCALSA has a technical team of professionals with expertise in designing, planning and managing a wide range of services, including social- and healthcare-related services.

Its programmes are aimed at vulnerable groups and/or those at social risk: the elderly, the highly dependent, immigrants, Alzheimer's patients, the disabled, children, etc.

UCALSA currently delivers more than 4,000 meals to people every day.



**Catering Services** 

Spain and abroad.

UCALSA is a leader in the catering

solutions for specific requirements.

sector and offers tailor-made

We specialize in the integral

management of specific and

special catering needs, both in

Group catering services must take

into account the specific features

(cultural, social and local) of the

group they are designed for.





#### YUMA, S.A.

Logistics, Ancillary & Services Uniforms & Equipment Design, manufacturing and distribution of mountain and camping articles (rucksacks, sleeping bags, insulating mats, field tents, clothing, footwear and other leisure accessories) for athletes and professionals (Ministry of Defence, forestry workers, firefighters, security forces and others).

Pol. Ind. Malpica. C/ D 50016 Zaragoza Tel.: +34 976330000 www.wearealtus.es

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#### **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. MOLLE strap system for securing pockets and other components. Accessories:

- Accessones.
- Integrated raincover.
- Removable inner panel
- Lightweight, 20-litre dry bag to keep delicate elements dry in case of rain.
- Detachable pockets
  Weight: 1,600 kg
  Volume: 35 litres
  Dimensions: 36 x 53 x 18.5 cm
  Total weight: 2,225 kg



Certifications: ISO 9001 PECAL / AQAP 2120 ISO 14001

#### Extreme Cold Bag Set: 3-in-1 Sleeping Bag

Temperatures and weight of both sleeping bags:

- Weight: 2.9 kg.
- Temperatures: -6°C / -13°C L / -32°C E (UNE EN 13537).

Characteristics:

- Indoor and outdoor sleeping bags
- Alpine-type design
- Wrap-around hood
- Elasticated drawstrings for ease of movement
- Elasticated drawstrings for ease of movement
- Double slide zip for internal temperature regulation and easy access
- Thermal collar and flap cover zip
- Interior pocket
- Straps to hang the bag
- Detachable, interchangeable hood for both bags
- Compression bag

The bags can be used individually or together, as they are equipped with the elements that make this possible.



#### **Individual Field Tent**

- 1. Technical characteristics:
- Frame:
  - Composition: duraluminium
  - Quantity: Two lines.
  - Two ventilation areas with cover.
  - Front vestibule area with floor extender.
  - Heat sealed seams.
  - Interior pocket.
  - Interior mesh fixed with rings.
  - 4 guy ropes.
- 2. Dimensions:
- Approximate weight, including bag: 4 kg.



### Extreme Cold Suit

A set designed for extreme cold conditions. Its light weight and thermal insulation make it ideal for moving at low temperatures that hinder mobility.

The jacket has underarm ventilation that enables regulation of body temperature. It is adjusted by elastic cords in the hood and bottom hems, while the sleeves have anti-blizzard cuffs and felt closures.

The trousers have suspenders and detachable inner gaiters, while zips at the bottom hems make it easier to put on boots.



#### **Imperator Ice Axe**

Technical ice axe for climbing, with an ergonomic, non-slip and high-density grip. It includes a pick sheath for safer transport and storage. The hammer area is made of high strength steel and is the ideal shape for a precise hit. Characteristics:

- Material: STS440 / SCM435 / AL 7075 / EPDM.
- Weight: 660 g.
- Length: 52 cm.
- Pick sheath included.





#### ALONSO HIPERCAS, S.A.

Avda. San Martín de Valdeiglesias, 2 28922 Alcorcón (Madrid) Tel.: +34 916427042 www.grupoalonso.com

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, field tents, vehicles and protection for developing activities in national defence, foreign defence or the defence of international organizations.



#### ARIETE SEGURIDAD, S.A.

C/ Industrias, 51. Pol. Ind. Urtinsa II 28923 Alcorcón (Madrid) Tel.: +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, for 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 a dynamic nature (patrolling), including security patrols, control centre management, airport services, scanner access control, etc.



#### BEYOND SOLUCIONES Y SERVICIOS, S.L.

C/ Oquendo, 23, esc. 3.ª, 4.ª planta 28006 Madrid Tel.: +34 918286673 www.beyondss.com

We are a global integrated logistics company, specialized in offering solutions and services to cover the entire supply chain of our public- and private-sector customers.



#### **BLACK BULL LOGISTICS, S.L.**

C/ Albert Einstein, s/n, edificio Insur, 1.ª planta 41092 Sevilla Tel.: +34 955225169 http://www.blackbull-group.com

Black Bull Group, a strategic partner to the world's leading armed forces, is a company that provides innovative solutions and strategic resource optimization tools in international deployment logistics management for land, naval and air defence forces. Black Bull Group is an integrated logistics support group with a proven track record of successful large-scale assignments for multiple military forces including the Spanish Navy, US Navy, Singapore Navy, and 90% of Latin American Navies, as well as multilateral defence agencies including NSPA (NATO), EUTM, etc. Black Bull Group is ISO 9001, ISO 14001, ISO 22320, ISO 27001, ISO 45001, ISO 27032 and TRACE certified, meeting the highest industry standards

Certifications: ISO 9001 Certifications: ISO 14001 ISO 9001 ISO 45001 Certifications: ISO 27001 ISO 9001 ISO 14001 ISO 45001

Certifications: ISO 14001 ISO 9001 ISO 27001 ISO 45001



#### **CALZADOS ROBUSTA, S.L.**

Ctra. de Prejano, 72 26580 Arnedo (Logroño) Tel.: +34 941385411 www.robusta.es

Robusta is a Spanish safety footwear brand, founded in 1999 in Arnedo, La Rioja (Spain). One of the company's main values is that of knowing how to adapt to the needs of its customers. The excellent quality level of its products has enabled the company to obtain several ISO certifications. Calzados Robusta also works with the best partners (Gore-Tex®, Vibram<sup>®</sup> and Thinsulate<sup>™</sup>) in order to produce footwear that guarantees safety standards and maintains user comfort at all times. In all processes. Robusta is committed to preserving and caring for the environment. Currently, its products have a market presence in Europe, America, Africa, the Middle East, the Far East, and wherever there is a need for reliable, highquality footwear.





Barrio San José, s/n 03360 Callosa de Segura (Alicante) Tel.: +34 965310004 www.panter.es

Manufacturer of safety footwear and uniforms, 100% made in Spain, with more than three decades of experience at the forefront of the sector; we are innovative and apply the latest technology and designs to our footwear. We have a footwear catalogue, with more than 800 references, to cover every need and every professional sector: armies, police, firefighters, etc.

We adapt to the demands and needs of our customers, with specific solutions. PANTER has its own 50,000 m<sup>2</sup> industrial estate, with a production capacity of 14,000 pairs/day and a logistics platform for exporting worldwide, making it one of the leading companies in the sector.



#### **CARTAGO MARPOL, S.L.**

C/ Helsinki, 107-108, Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Tel.: +34 968125181 www.cartagomarpol.com

- Removal, cleaning and management of waste from vessels and land-based facilities.
- Port cleaning and marine decontamination.
- Industrial cleaning, including tanks and septic tanks.
- Maritime transportation.
- Ship provisioning.



#### COMPAÑÍA ESPAÑOLA DE PETRÓLEOS, S.A.U.

Paseo de la Castellana, 259 A, Torre CEPSA 28046 Madrid Tel.: +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, made up of over 10,000 professionals. It carries out oil exploration and production activities; refining, distribution and marketing of oil derivatives; petrochemicals; gas and electricity.

CEPSA, Spain's fourth largest industrial group in terms of turnover, has been in the market for more than 80 years. Thanks to its flexibility and ability to adapt, CEPSA has become a benchmark company in its sector in Spain. It is also present in Algeria, Morocco, Brazil, Canada, Colombia, Panama, Peru, Netherlands, Belgium, United Kingdom, Italy and Portugal.

Certifications: PECAL / AQAP 2120 ISO 14001 ISO 9001 ISO 45001

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Certifications: ISO 14001 ISO 9001 ISO 45001



#### CONSTRUCCIONES FRANCISCO ROCA SÁNCHEZ. S.L.

C/ Huerto, 1 30369 La Unión (Murcia) Tel.: +34 968548557 www.construccionesfranciscoroca.com

Construcciones Francisco Roca Sánchez was founded in Roche (La Unión) in 1972. It operates in the construction sector, for which it has the appropriate staff and machinery to meet the technical specifications of its customers. The company's services are primarily aimed at companies in the naval sector, as well as public administrations, 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.





#### EASA NAVAL. S.L.

C/ Oso. 7 11405 Jerez de la Frontera (Cádiz) Tel.: +34 956307450 www.easanaval.com

EASA NAVAL, S.L. has extensive experience in supplying, repairing and maintaining rescue and survival equipment.

We provide comprehensive maintenance for life rafts and life jackets, breathing equipment (for use on the surface and underwater), flight suits for pilots and flight crews, dry suits for amphibious units, etc.



#### **ECOHER INDUSTRIAL Y** NAVAL, S.L.

C/Viena, parc. D-20-21-22 30353 Cartagena (Murcia) Tel : +34 968521144 www.ecoher.com

- Industrial and naval electricity and electronics: Installation, repair and maintenance (low and high voltage) with supply of necessary materials and equipment.
- Telecommunications: Installation, repair and maintenance (construction, industrial and naval) with supply of necessary materials and equipment.
- Overhaul and repair of electric motors.
- Vibration analysis and balancing.
- Electromechanical repairs.

We have a constructed surface area of 1,715 m<sup>2</sup>, of which an area of 1,200 m<sup>2</sup> is used for workshops and the rest for offices, warehouses and services, as well as for the implementation of machinery and the execution of the work. Our human and technical teams are trained professionals who guarantee maximum confidence in this work.

Certifications:

Certifications: ISO 14001 ISO 9001



#### **ELECTRO RUIZ, S.A.**

C/ Electricidad, 19 28918 Leganés (Madrid) Tel.: +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, 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 organization 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.

ISO 9001 ISO 45001 ISO 14001



#### **ELECTROCANTERAS, S.L.**

C/ Fósforo, parc. 105 30369 Cartagena (Murcia) Tel.: +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 vessels.

Upkeep and maintenance of buildings, in addition to paving, maintenance and mechanical installations in general in the industrial and naval sectors. The company holds ISO 9001:2015, ISO 14001:2015, and ISO 45000 quality certifications.



#### ELECTROMECÁNICAS DEL LEVANTE, S.L.

C/ Berlín, nave 1B, parc. B2, Pol. Ind. Cabezo Beaza 30353 Cartagena (Murcia) Tel.: +34 968528011 www.emlevante.es

Electromecánicas del Levante was founded in 2010 with the aim of providing solutions to the requirements of the public naval industry. For the Spanish Navy, it carries out different activities in the specialties of repair, installation and maintenance of boilers, ship habitability, mechanical, hydraulic and pneumatic equipment for naval and industrial installations. The company is rapidly extending its activity to the industrial environment, participating in a multitude of projects carried out on the main platforms of the Spanish Navy and private naval industry.



#### **EULEN SEGURIDAD, S.A.**

C/ Gobelas, 25-27 28023 Madrid Tel.: +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, while remaining committed to excellence in the provision of services. We develop activities aimed at assuring the security of organizations 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 include: security consultancy; surveillance; security systems: intelligence: cyber security: integral security control centre; critical infrastructures protection; airport, maritime and itinerant security; and remote video surveillance.



#### FACET BOX, S.L.

C/ Santiago Estévez, 27 28019 Madrid Tel.: +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 bodies, in addition to the main companies operating in Spain in the telecommunications, audiovisual, aeronautical and armament sectors.

Certifications: ISO 9001 ISO 14001 ISO 45001 Certifications: ISO 9001 ISO 14001 ISO 45001 Certifications: ISO 14001 ISO 27001 ISO 9001 ISO 45001 ISO 22301

Certifications: ISO 9001



## FAL CALZADOS DE SEGURIDAD, S.A.

Avenida de Logroño, 21 bis 26580 Arnedo (Logroño) Tel.: +34 941380800 www.falseguridad.es

A manufacturer of footwear for professional use: armies, police, firefighters 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, providing our know-how and R&D. We currently supply various armies, police forces and firefighting corps throughout the world (America, Europe, Africa, Asia and the Middle East), including the Spanish Army and Air Force.



#### FEDUR, S.A.

C/ Brazal Almontilla, 4 50410 Cuarte de Huerva (Zaragoza) Tel.: +34 976505556 www.fedur.com

Manufacture of personal defence equipment: bulletproof, fragmentation-proof, knife-proof and riot-proof vests, police and military vests, helmets, as well as protective and ballistic shields.



#### FRÍO CLIMA VALENTÍN, S.L.

C/ Banderas, 6 11510 Puerto Real (Cádiz) Tel.: +34 956883426 www.frioclimavalentin.com

Company engaged in the supply, installation, maintenance and repair of catering, air conditioning, refrigeration and freezing machinery for the industrial and naval sectors. We supply electrical materials, and also install, maintain and repair low-voltage electrical installations. Our facilities are located in the area of Cádiz (Spain).



#### FRIMARTE, S.L.

Pol. Ind. Espíritu Santo, c/Daimler 30 15650 Cambre (A Coruña) Tel.: +34 981649800 www.frimarte.com

Frimarte is a company that specializes in naval and industrial refrigeration and air conditioning systems. Since its beginnings, it has developed all projects while adapting to meet customers' needs, therefore incorporating top-quality and innovative solutions in its refrigeration systems. Its skilled technicians attend specialized courses and exhibitions in order to constantly update their knowledge of the refrigeration industry. Frimarte focuses on providing its customers with tailored solutions that meet their needs, from technical engineering advice to the supply, assembly, testing, implementation and maintenance of all types of refrigeration systems.

Certifications: PECAL / AQAP 2110 ISO 14001 ISO 9001 Certifications: PECAL / AQAP 2110 ISO 14001 ISO 9001 Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110 ISO 45001

Certifications: ISO 9001 ISO 14001 ISO 45001



#### **GAPTEK 2011, S.L.**

C/ Balmes, 226, pral. 2.° 08006 Barcelona Tel.: +34 972445072 www.gaptek.eu

GAPTEK is a leader in the design, manufacture, construction, and maintenance of sustainable and energy efficient buildings. We operate on a global scale for the aeronautical industry, logistics platforms, military defence, air cargo, mining, hospitality and social development. We carry out large-scale projects providing high quality, IBC compliant turnkey solutions. What distinguishes our patented system from other traditional constructions is its high versatility, our fast construction times, our low  $CO_2$  footprint, the possibility of dismantling and relocating our buildings overseas and many other advantages.



#### GLR SERVICIOS Y SISTEMAS CONTRA INCENDIOS, S.L.

C/ Almacén de Hierros, parc. 61 46520 Sagunto (Valencia) Tel.: +34 962699015 www.qlrservices.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 Tel.: +34 913669611 www.roal.com

Manufacture of leather and canvas articles, including military, police and professional equipment. Marketing of leather and canvas articles, gunsmithing articles, workwear and accessories, emblems, badges, personal protective equipment, sports equipment, leather goods and footwear.



#### **IBER PRECIS, S.L.**

Pol. Pignatelli, 17 50410 Cuarte de Huerva (Zaragoza) Tel.: +34 976503727 www.iberprecis.com

IberPrecis: 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.

Aeronautical Industry:

- Flight parts.
- Lifting industry:

- Safety assemblies.

- Food industry:
- Parts and assemblies for fillers and labellers.
  IberPrecis capacities:
- Machining: maximum part of 50 kg, measuring 650 mm in length and 250 mm in diameter.
- Assembly: maximum of 250 kg, length of 2 metres.
- Metrology (in-house laboratory).
- Subcontracting department (processes and treatments).
- Raw materials and cast-iron purchasing department (semi-processed).

Certifications: ISO 9001

Certifications: ISO 14001 ISO 27001 ISO 45001 ISO 9001

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



#### **INDUSTRIAL MATRICERA** PALENTINA. S.L.U.

Ctra. Palencia Magaz, km 2,5 34190 Villamuriel de Cerrato (Palencia) Tel.: +34 979165048 www.inmapa.com

Industrial Matricera Palentina is one of the divisions of Grupo Inmapa that operates in different sectors such as aeronautics, defence, automotive, railway and energy. The company is specialized in:

- Design, manufacture and commissioning of industrial installations and capital goods, offering a turnkey service.
- Machining and/or welding of parts for different sectors.



#### INDUSTRIAL SEDÓ, S.L.

Camí Mas Llagostera, s/n. Políg. Industrial 43762 La Riera de Gaià (Tarragona) Tel.: +34 977655007 www.industrialsedo.com

Manufacturer of military technical fabrics, camouflage nets and field tents, in addition to truck tarpaulins, canvas covers for seats and canvases for the protection of materials. References: IR gamma-2 khaki, truck tarpaulin 824, tent canvas 884, seat canvas 826, NATO IR gamma-0 green tent canvas.

## ABENGOA

#### **INSTALACIONES INABENSA, S.A.U. (ABENGOA)**

Energía Solar, 1. Campus Palmas Altas 41014 Sevilla Tel.: +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 embedded electronics systems, in addition to electrical rooms and modular units with leakproof 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.



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

Estrada de Cedeira 209 15570 Narón (A Coruña) Tel.: +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 specialized services and products in various industrial sectors, mainly metal working, which includes engineering, manufacturing of capital goods, machining, boilermaking, 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 specialized 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. The company holds ISO 9001, ISO 14001, 45001, ISO 3834-2, and EN 1090-1 quality certifications.

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

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



#### INTEGRA INTERNATIONAL FREIGHT & LOGISTICS NETWORK SPAIN, S.R.L.

C/ Tierra de Barros, 2 28220 Coslada (Madrid) Tel.: +34 911888898 www.integra-international.es

Integra International is a 100% Spanishowned logistics operator, with an international outlook and specializing in the development of integrated logistics solutions at all levels 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.

😻 jomipsa

#### JOSÉ MIGUEL POVEDA, S.A.

C/ Molí Nou, s/n. Pol. Ind. Riodel 03110 Mutxamel (Alicante) Tel.: +34 965657135 www.jomipsa.es

For the past 40 years ago, JOMIPSA has been a leader in the production and distribution of food rations and humanitarian aid kits for security, defence, emergency, NGOs and international cooperation agencies all over the world. The company's main values are a quick response to emergencies, a totally personalized service, flexibility to adapt to any project and a team of more than 150 highly qualified people.



#### LORPELAND, S.L.

Ctra. General, s/n 31760 Etxalar (Navarra) Tel.: +34 948635384 www.lorpen.com

Production and supply of technical socks and first layer sportswear. Manufacturers for over 30 years, at Lorpen we work with one foot in intelligence and the other in imagination, with one foot in the specialization and functionality of our products and the other in the mystique of effort in the middle of a breathtaking natural landscape. We are a brand with authenticity and determination, with roots and with ideas, with our feet on the ground and our minds in the sky. We work with great ambition and skill, developing exclusive fibres and technologies, such as T3 and SLS.

We are specialists and experts in a single product: technical and innovative socks, designed for different outdoor activities, such as; trekking, hiking, skiing, snowboarding, trail running, running, etc.



#### M. TORRES, DISEÑOS INDUSTRIALES, S.A.U.

Ctra. Huesca, km 9 31119 Noáin (Valle de Elorz) / Noáin (Elortzibar) (Navarra) Tel.: +34 948317811 www.mtorres.es

MTorres is an industrial group specializing in advanced technologies for the development of innovative solutions in the automation of highly complex industrial processes for the aeronautical and converting sectors. The aeronautics division is dedicated to the design. manufacture and installation of special machine tools for the manufacture of aeronautical components, tooling and assembly systems. The range of products covers the entire production process, from the machining of individual components to the assembly of the final product, in metal and composite materials. MTorres products are present in more than 70 countries with more than 620 customers. With more than 700 workers in R&D&i in centres in Navarra, Murcia, Madrid, USA, Germany and Brazil, the group reinvests 10% of its turnover in R&D.

Certifications: ISO 9001 UNE EN 9100 ISO 45001

Certifications: ISO 9001 Certifications: ISO 14001 ISO 9001 ISO 22000 ISO 22301

Certifications: ISO 9001 ISO 14001 PECAL / AQAP 2110



#### MANTENIMIENTO Y SERVICIOS TECMAN, S.L.

Ctra. de Cedeira, 209 15570 Narón (A Coruña) Tel.: +34 981397283 www.tecman.com.es

Tecman is a company specializing 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 to provide an efficient and reliable service and a policy aimed at customer satisfaction.

Tecman offers specialized services in the industrial sector and in non-renewable and renewable energies (operation and maintenance of wind farms), and its 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 ISO 45001.

#### Certifications: ISO 14001 ISO 9001

ISO 45001 ISO 3834



MANUFACTURAS AURA, S.A.

C/ Electricistas, 12 28670 Villaviciosa de Odón (Madrid) Tel.: +34 916165878 www.manufacturasaura.com

Manufacturas Aura is a company in the service sector, with 100% Spanish capital. We have over 20 years of experience and presence in various markets, offering products and services that respond to the needs of our customers in both the public and private sectors. Our main business activity is the manufacture and distribution of military vehicle tarpaulins, field tents, 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 equipment. We have another business line in the private sector related to department stores. Tenemos otra línea de negocios en el ámbito privado, relacionada con grandes superficies.



#### **MASTER SECURITY 3000, S.L.**

Pol. Ind. Saprelorca, Avenida Rio Jucar, parc. Ñ1 30817 Lorca (Murcia) Tel.: +34 968476318 www.gruposecurity.es

A company engaged in private security, for which it uses people to provide a surveillance and protection service for persons, goods and real estate, establishments and shows, contests and conventions, as well as other properties.

- 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.
- Installation and maintenance of fire systems.
- Installation and maintenance of access control systems.



#### MECÁNICA DE PRECISIÓN TEJEDOR, S.A.

C/Milanos, 11. Polígono Industrial La Estación 28320 Pinto (Madrid) Tel.: +34 916913000 www.mptejedor.com

Mecánica de Precisión Tejedor, S.A. provides the full range of CNC machining, including machine-welded assemblies and their assembly for the military industry. Land platforms: different elements for turrets, night vision equipment and lifting systems for tanks and other vehicles. Ammunition: participation in various missile programmes and the production of elements for bombs, Howitzers and grenades of various calibres. Navy: manufacturing of the mechanical parts of periscopes (Percosub programme). Aeronautics: involvement in the manufacturing of various elements for drones.

Certifications: ISO 14001 PECAL / AQAP 2110 ISO 9001 Certifications: ISO 45001 ISO 9001 ISO 14001

Certifications: ISO 9001 PECAL / AQAP 2110 ISO 3834



#### **MECÁNICAS BOLEA, S.A.**

Pol. Ind. Cabezo Beaza, Avenida Bruselas, Parc. R-101 30353 Cartagena (Murcia) Tel.: +34 968324220 www.mecanicasbolea.com

Mecánicas Bolea, a firm with over 35 years

of experience in the repair, maintenance and manufacture of equipment, counts 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 in the manufacture of the Scorpène submarines. Mecánicas Bolea has also worked directly and indirectly for the different air bases of the Spanish Air Force in its various installations, services and fleets. It is a Tier 2 company in tooling design and manufacture with Airbus. To carry out this work, it holds the necessary certifications, such as PECAL, ISO, U and R seals, H1 Module in 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 Tel.: +34 961767200 www.mecaniza.com

- Design, manufacture, repair and assembly of special equipment and tools for the naval, aerospace and defence sectors.
- Specialized in design, manufacture and
- testing of submarine hatches and hydraulic blocks and drives.
- Repair of hydraulic cylinders and gearboxes.
- Precision machining.

Certifications:

**UNE EN 9100** 

ISO 9001

ISO 14001

- Hydraulic pressure tests with air, water and oil.
- Dynamic balancing according to VDI 2060.



#### **MEYRIN, S.L.**

C/ Aluminio, s/n esquina C/ Bismuto, Pol. Ind. Los Camachos 30369 Cartagena (Murcia) Tel.: +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, coiling, shearing, TIG welding, continuous wire, electric and autogenous welding; plasma cutting; welding of materials such as grey cast iron, copper, bronze, stainless steel and special materials.



Certifications: ISO 9001 ISO 14001



#### MENPRO GESTIONES DOCUMENTARIAS, S.L.

Marie Curie 5-7, Edif. Alfa, 7.ª Planta 28521 Rivas-Vaciamadrid (Madrid) Tel.: +34 915522161 www.menpro.es

MENPRO focuses on the representation of foreign companies with pioneering products and/or technologies in the field of defence, as well as their integration and technical support through its engineering department. Since 1995, the company has been focused on offering the Armed Forces and the State Security Forces high performance, high added value and exceptional quality products, as well as all the technical support necessary for their full performance and to ensure their operability in a timely and cost-effective manner. For its suppliers, MENPRO offers an excellent platform, with extensive industry knowledge, from which to market their products and/or technologies.



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

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

Norinver Montajes e Ingeniería, S.L. specializes in working for industrial firms that require maximum operational reliability and quality in their systems.

- Basic and detailed electrical and electronic design for vessels and industry;
- Electrical and electronic installations 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.

The company is certified in the following standards: ISO 9001 (Quality Management), ISO 14001 (Environmental Management) and OHSAS 18001 (Prevention Management).



#### PANARCOS INTERNACIONAL, S.L.U.

Avenida Toscana, 50 28420 Galapagar (Madrid) Tel.: +34 918591736 www.panarcos.com

Since 1987 we have been a freight forwarder company, offering door-to-door service from pick-up at 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 specializes in transport from the USA and Asia, where we have our own consolidated business. We hold accreditations from IATA, FETEIA, the FDA, AMCHAMSPAIN, AECOC and GS1, necessary for all procedures and requirements to obtain the result of a job well done.



#### PAPÍ TRÁNSITOS, S.L.

Pol. Ind. Atalayas C/ Rublo 03114 Alicante Tel.: +34 965207144 www.papitransitos.com

Papí Tránsitos is a freight forwarder with more than 45 years of experience dedicated to the transport of IMO and military goods. It provides global logistics solutions and holds the ISO 9001 certification. Registered with the DGAM of the Spanish Ministry of Defence, we offer land, sea and air transport services for these types of goods, coordinating the entire logistics chain from pick-up to delivery at destination, ensuring compliance with current regulations regarding escorts, transit permits, port security, etc. We have our own security advisors who analyse each shipment for its transportation in the most efficient and competitive way possible. Our network of agents around the world is specialized in this type of goods, which allows us to have total reliability when the goods arrive



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

Astintze, 6A, 3.ª Planta Edificio Astintze Dpto. 308 48160 Derio (Vizcaya) Tel.: +34 944544792 www.pine.es

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

- Onshore and offshore works
- High- and low-voltage electrical installations
- Basic and detail engineering
- Electrical panels and consoles manufacturing
- Instrumentation
- Telecommunications and security systems
- Electromechanical testing and maintenance

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



#### PYCSECA SEGURIDAD, S.A.

C/ Isabel Colbrand, 10-12, 5.ª planta, puerta 145 28050 Madrid Tel.: +34 913589777 www.pycseca.com

A security company officially approved by the Interior Ministry for the following activities:

- Planning and advice on security activities
- Installation and maintenance of security systems
- Alarm reception centre
- Personal protection
- Surveillance

Coverage throughout Spain.

#### Certifications: ISO 14001 ISO 9001 ISO 45001 ISO 27001



#### PLESIUM, S.L.

C/Arquímedes, 10 08210 Barberà del Vallès (Barcelona) Tel.: +34 935007831 www.gmsplesium.com

Founded in 2020 by a team of people who have been working for more than 25 years in the defence sector,

we are an engineering company that develops and manufactures products for this sector. We offer complete technical solutions to the various problems that our customers may encounter. We have a multidisciplinary team from different specialties, which allows us to carry out very diverse projects.

Our objective is to be a comprehensive maintenance partner as a global provider of reliable technological solutions that provide customers with profitability, reliability and safety in the maintenance, repair and overhaul processes of their vehicles. We have already developed and tested our products and offer a complete product range according to market needs that can be adapted to your requirements.



#### REFRIGERACIÓN GUILLÉN, S.L.

C/ Ramón y Cajal, 35 30205 Cartagena (Murcia) Tel.: +34 968517413 www.refrigeracionguillen.com

Empresa con más de 25 años de experiencia, dedicada a la venta, instalación v mantenimiento de equipos de aire acondicionado, refrigeración y frío industrial, tanto naval como comercial. Company with more than 25 years of experience, engaged in the sale, installation and maintenance of air conditioning, refrigeration and industrial refrigeration equipment, both naval and commercial. Established in Cartagena, but with extensive mobility that enables it to work in Spain and abroad. Concerned about quality, having been ISO 9001:2008 certified for 14 years, the company complies with the legal regulations on the conservation of the environment, having been ISO 14001:2004 certified for ten years, and the legal requirements for the prevention of occupational risks, having held an ISO 45001 certification for eight years.



## REINOSA FORGINGS & CASTINGS, S.L.

Paseo Alejandro Calonje, 1 39200 Reinosa (Cantabria) Tel.: +34 944871500 www.reinosafc.com

- A) Production of rough forged bars from forging, shot peening and turning. Direct sale ingots.
- B) Forged blocks for plastic injection moulds and tooling for hot and cold working.
- C) Production of large steel forgings and castings, including the subsequent assembly of the set of parts.
- D) Production of forged cylinders for rolling mills.
- E) Production of forged crankshafts for propulsion, power generation, compression and pumps.
- F) Lines of naval propulsion shafts.
- G) Structural forgings and castings for ships: flying buttresses, rudder bearings, rudder supports, rudder hubs, rudder rods, dredge shafts.

Certifications: ISO 14001 ISO 9001 ISO 45001 ISO 50001 PECAL / AQAP 2110

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



#### SAGRES, S.L.

Segunda Travesía Padre Crespo, 5 36800 Redondela (Pontevedra) Tel.: +34 986400558 www.partenon.net

Founded in 1958, Sagres-Partenon is a company engaged in the production of technical workwear for the 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 guality. 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: customer orientation, innovation and renovation, teamwork, trust. transparency, service and quality.



#### SAIMA SEGURIDAD, S.A.

Avenida Valgrande, 12, naves 16-17 28108 Alcobendas (Madrid) Tel.: +34 916616892 www.saimaseguridad.com

Saima Seguridad is a Spanish company dedicated to providing comprehensive, technologically advanced solutions for the protection of people and property, according to the needs of the market. Its specialized and exclusive activity within the security sector is its dedication to electronic technology, which makes its efforts more effective. Over 25 years of experience in various sectors such as banking, critical infrastructures, defence, etc.

We provide solutions and technological knowledge to our customers to resolve all their needs and thus obtain the desired results. Comprehensive solutions for the implementation of new systems as well as for the maintenance of existing ones.



#### SECURITAS SEGURIDAD ESPAÑA. S.A.

C/ Entrepeñas, 27 28042 Madrid Tel.: +34 912776000 www.securitas.es

Securitas is the world's leading intelligent security services company. Our surveillance, electronic security, fire protection and risk management solutions enable more than 153,000 customers to view the world differently. With a presence in 47 markets, our innovative, data-driven approach makes us the trusted partner for many of the world's most recognized companies. Our employees share our values of integrity, efficiency and service, and our purpose is to help make your world a safer place.



#### SERVICIOS LOGÍSTICOS INTEGRADOS, S.A.

Avda. Marcelino Camacho, 17-19 28830, San Fernando de Henares (Madrid) Tel.: +34 910211017 www.es.dsv.com

Servicios Logísticos Integrados S.A., a DSV Group company, is a global logistics operator offering integrated supply chain management through the provision of international traffic services (air, sea and land), customs, warehousing, national distribution, value-added activities, consultancy and the development of customized information systems. We are a global logistics operator with a strong service, innovation and delivery ethos. For this reason, we value trust and long-term relationships with a commitment to "delivering competitive advantage to each of our customers' supply chains". This is coupled with quality systems and measurable processes that enable continuous improvement and customer satisfaction.

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 27001 ISO 14001 ISO 9001 ISO 45001



#### SURESTE SEGURIDAD, S.L.

C/José Colucho Moñino, 17 Polígono Industrial La Polvorista 30500 Molina de Segura (Murcia) Tel.: +34 968343160 www.gruposureste.es

The activities carried out by the company are: Surveillance and protection of goods, establishments, places and events, both public and private, as well as the people who may be in them.

Accompaniment, defence and protection of specific individuals, including those with the legal status of authority. Installation and maintenance of security apparatus, devices and systems. Planning and advice in relation to private security activities.

#### TALLERES GRUYMA, S.L.

GRUYMA

C/Ballobar s/n 22004 Huesca Tel.: +34 974210516 www.gruyma.com

Talleres Gruyma, S.L. was founded in 1973 and has been in business for over 42 years. Its fully equipped facilities of more than 3,000 m<sup>2</sup> have optimal resources for the maintenance, repair and sale of machinery for public works and construction, as well as the preliminary, intermediate and final tests carried out on the machines entrusted to us by our customers. Our staff of professionals has extensive experience in each of the fields belonging to our activity and our team is capable of repairing any make and model of machine on the market with full guarantees.

- 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.



#### **TEMAVECO S.L.**

Calle Voluntad n.º 10 41500 Alcalá de Guadaíra (Sevilla) Tel.: +34 954028802

Maintenance, rehabilitation and overhaul of firefighting vehicles, providing new technologies and services such as fire pump test benches complying with European EN and American NFPA standards, application of CAM BUS technologies with their respective hardware and software repairs for automotive, application of ICAO standards for airport firefighting vehicles. Supply of all types of spare parts for firefighting vehicle systems, manufacture of supports for firefighting equipment, total or partial replacement of firefighting vehicle bodies, development of projects for passing the MOT, document management and the necessary documentation to make the vehicle operational for road circulation.

Transformation and supply of new accessories to optimize the operational work of firefighting equipment.



#### **TEXTIL SANTANDERINA, S.A.**

Avenida Textil Santanderina, s/n. 39500 Cabezón de la Sal (Cantabria) Tel.: +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 forces, 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.

It has extensive certifications at company and product level, which guarantee the highest quality and service in all its items. Currently present worldwide, it offers innovative solutions for every type of user.

Certifications: ISO 14001 ISO 9001 ISO 45001 Certifications: ISO 9001 PECAL / AQAP 2110 ISO 14001 Certifications: ISO 14001 ISO 45001 PECAL / AQAP 2110 ISO 9001 UNE EN 9100

Certifications: ISO 14001 ISO 9001 PECAL / AQAP 2110



#### TOLPIN, S.A.

C/Fernández de la Hoz, 46, 3.ºB 28010 Madrid Tel.: +34 915710125 www.tolpinsa.com

TOLPIN, S.A. is a company that has specialized in the production and marketing of wholesale and retail textile products for 40 years. Its activity is focused on the manufacture of light and heavy textile articles, as well as the manufacture, transformation and creation of plasticized fabrics. We have machinery for high-precision manufacturing and machinery for working with PVC through high-frequency welding. We work in the manufacture of the following industrial products: water storage tanks of different capacities; canvases and tarpaulins for army vehicles: camping equipment such as lockers and bunk beds; field tents with an external aluminium structure and an assembly time of 2 minutes and 30 seconds.



## TORNEADOS DE PRECISIÓN, S.L.

P. I. Campollano C/A N. 81 (nave 2) 02007 Albacete Tel.: +34 967248479 www.torneados.com

Torneados de Precisión is a company that has been manufacturing machined parts for more than 30 years.

Our main activity is based on the subcontracting of the machined parts that we supply according to the specifications of our customers, offering an integral service including different finishes thanks to our collaborators.

All work is carried out in line with a quality system based on the ISO 9001 standard. Small, medium and large series machining. Manufacture of prototypes.

Delivery to the customer of the finished product including surface treatments. Manufacture in different materials: steel, aluminium, Plastic, brass, bronze and Inox.

#### **tyco** Integrated Fire & Security

#### TYCO INTEGRATED FIRE AND SECURITY CORPORATION SERVICIOS, S.A.

Ctra. de la Coruña, km 23,5 28290 Las Rozas de Madrid Tel.: +34 902011055 www.tyco.es

Tyco Integrated Fire and Security, a Tyco company, designs, installs and maintains firefighting systems and electronic security systems for residential, business and government customers. Tyco Integrated Fire and Security's portfolio includes intrusion alarms, video surveillance, access control, electronic protection of articles, radio identification, fire detection, integrated solutions and monitoring. Tyco Integrated Fire and Security solutions are used to help protect people, assets and property.

Certifications: PECAL / AQAP 2110 ISO 9001 ISO 14001

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







# Consulting and Engineering Sector



#### **ALTEN SOLUCIONES, PRODUCTOS, AUDITORÍA** E INGENIERÍA. S.A.

Police & Rescue Vessels; Systems & Equipment; Maintenance & Life Cycle Support

Aerospace Aerial Systems & Equipment

Armament & Ammunition Ammunition

**Electronics. Communications & ICT** C4ISR; ICT

**Consulting & Engineering Consulting & Engineering**  248

C/ Vía de los Poblados, 3, edif. 5 28033 Madrid Tel.: +34 917910000 www.alten.es

A European multinational and a leader in technology, consulting and engineering, with an international presence, over 33,000 employees and a turnover of more than €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, Cádiz, 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 ISO 14001 ISO 20000 ISO 27001 ISO 9001 **UNE EN 9100** ISO 166002

#### **IT Consulting Services**

IT consulting services in different areas such as business solutions development, managed services, mobility solutions, software testing, and big data & business intelligence.



#### Aerospace and Defence Engineering Consulting

Engineering services throughout the life cycle of the following defence products: conceptual engineering; embedded software development and hardware integration; manufacturing engineering; supply chain and logistics; and customer services.



#### **Embedded Software**

Embedded SW development and testing relating to aeronautics, space and defence products.



## Consulting Services for e-Learning

Consulting services for the creation of e-learning platforms: identification of training needs, creation of material and implementation of the platforms.



#### Naval and Defence Engineering Services

Engineering Services throughout the life cycle of the following defence products: conceptual engineering; embedded software development and hardware integration; manufacturing engineering; supply chain and logistics; and customer services.



## altran

## 250

C/ Llacuna, 56 08005 Barcelona Tel.: +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; Systems & Equipment; 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 been working with 150 leading companies in the main sectors of the country.

Specialized in the defence sector: ALTRAN specializes 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.
- Embedded electronics 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 integrated, real-time systems with massive processing capacity. Altran draws from six practices (systems engineering, software engineering, electronics, safety, security and connectivity).



Certifications: ISO 14001 ISO 9001

#### Consulting for Public Administrations

Altran's commitment to the Public Administration is reflected in its development of various projects and services oriented towards improving the efficiency of and contributing to the modernization of public administrations. Thus, Altran participates in 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 improvement and quality in the service provided through follow-up





#### Software Development

Our solutions cover a wide range of industries, including automotive, construction, complex general machinery and transportation.





**Knowledge and Change** 

Altran works according to five

management, product design

distribution and support, and

management of the product life

and systems engineering, supply

management and manufacturing,

global practices: innovation

Management

cycle.



## 252

Avenida Leonardo da Vinci, 22 28906 Getafe (Madrid) Tel.: +34 916832030 www.thectengineeringgroup.com

#### **CT INGENIEROS AAI, S.L.**

#### Land

Vehicles; Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Simulation

#### Nava

Police & Rescue Vessels; Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Simulation

#### Aerospace

Aircraft; Helicopters; RPAS; Aerial Systems & Equipment; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Satellites; Satellite Systems & Equipment; Auxiliary Industry & Spares; Simulation

#### Armament & Ammunition

Armament; Ammunition; Missiles; Maintenance & Life Cycle Support; Auxiliary Industry & Spares; Simulation

#### Electronics, Communications & ICT

Systems & Equipment; Maintenance & Life Cycle Support; Simulation; ICT

Logistics, Ancillary & Services Field Logistics; Infrastructures; Auxiliary Industry & Machinery; Consumer Goods

#### Consulting & Engineering Consulting & Engineering

Simulation Simulation

CT provides engineering services related to the aeronautical, naval and land defence sectors. Our portfolio of services covers the entire product life cycle from design, product engineering and manufacturing engineering to aftersales support engineering. We are is a strategic supplier (EMES3) for all Airbus activities concerning design, manufacturing and aftersales engineering throughout the world. In the naval sector, we are a benchmark supplier for all the factories of Navantia, and in the land sector, 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: to provide 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 carry out the design of primary and secondary structures, basic and detail engineering, integration of mechanical, hydraulic and electrical systems, manufacturing engineering, calculation and flight physics, development and production support, as well as logistical support, drafting of technical manuals, service bulletins, product certification. MRO and software development. We work on major projects for leading international companies in the aeronautical. naval and land defence sectors.


# **Main products / Services**

### **Aeronautics**

We participate in the main Airbus D&S defence programmes, both fixed wing (A330 MRTT, A400M, C-295, CN-235, C-212, EFA) and rotary wing (NH90, Tiger, EC-725 Cougar, Caracal).

Since 2006, we have been working on the A400M in the definition of assembly processes, manufacturing engineering for FAL stations, calculation of structural components, development of service bulletins and MRO support and simulation. Regarding the A330 MRTT, we are involved in the entire 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 through to delivery to the customer. We are specialists in life cycle engineering, a NATO cataloguing company, and we have extensive experience in the management of national and international military regulations and standards.

We participate in major projects: frigates (F-100, F-310 series and Australian AWD destroyers); large amphibious assault ships (*Juan Carlos I* for 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 deeprooted experience in other areas allows us to contribute to the optimization of engineering solutions for land platforms. We are a Tier 1 engineering company of reference for GDELS-SBS, with which we collaborate by providing support in 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 in mechanical and systems design, and develop our own solutions in areas such as simulation, training and logistics management.



#### **Digital Transformation**

At CT, we actively participate in the digital transformation process. With a clear and simple methodology, we accompany the customer in the process of change, providing incremental and customized solutions. Our daily experience in the use of tools and new technologies allows us to apply the most useful technology in each case, ensuring that the adaptation and implementation process is a success.

We cover all new technologies (intelligent PLM, digital factory, use of RPAs in engineering, continuity/ digital twin, virtualization, big data, IoT, etc.) and we apply them using our own or third-party tools.





## **GHENOVA INGENIERÍA, S.L.**

Naval

Systems & Equipment; Auxiliary Industry & Spares

Aerospace Aerial Systems & Equipment

Electronics, Communications & ICT ICT

Logistics, Ancillary & Services Infrastructures; Consumer Goods 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 in large and highly complex technological projects for some of the world's largest firms in the naval, offshore, aeronautics, industrial, and infrastructure sectors.

Avenida San Francisco Javier, 20 Edificio Catalana Occidente, 2.ª planta

254

41018 Sevilla Tel.: +34 954990200

That is why GHENOVA is now a company of international prestige, with extensive experience in the design, development and management of projects on a global scale, with customers who are global benchmark companies and our best guarantee. Large firms that add value to our services include: 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 (through our own resources or thanks to our network of subcontractors) is an important added value. Our experience allows us to work as a single engineering source capable of taking responsibility for a project from preliminary designs through to commissioning, including configuration and certification activities. Our team has the tools and experience to design the best products to meet our customers' specifications.



# **Main products / Services**

### **Definition and Design**

**GHENOVA** works interchangeably for shipyards, shipbuilders, manufacturers, ship owners and operators, both multinationals and local companies, from the earliest stages of the concept. These are stages in which crucial decisions about investment, costs and forecasting are made, which allow us to offer a wide range of services to the customer: complete conceptual design of the vessel, installation or infrastructure. or support activities such as guaranteeing the requirements of the main classification societies, specialized analyses and calculations, or the study of operational constraints.



#### Development

We provide comprehensive development engineering services using specific software for plant layout design, structural and process calculation and design, among others.

We are experts in coordinating different production methods, work standards, design and material management tools, as well as in dealing with often changing projects, where basic and development engineering overlap. We are able to operate effectively in dynamic, yet deadline-driven environments. Our extensive portfolio of successfully completed development projects proves this.



# Consulting

We provide consulting services in all sectors in which we compete. We collaborate with our customers at every stage of their investments, from preliminary studies to commissioning, and during the necessary modifications throughout the life cycle. We participate in refurbishments and modernizations, as well as in manufacturing and structural repair processes. We develop improvement studies and update technical documentation and manuals. We also provide impartial advice to meet the particular requirements of shipvards, shipbuilders, ship owners, operators and equipment suppliers.



### Management

We provide a wide range 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 purchasing departments, in supplier evaluation and in the approval of tenders. 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 Edificio Melkart, oficina 24 11011 Cádiz Tel.: +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.
- Paint and coating inspection.
- Industrial radiography.
- Wind energy in the naval and industrial sectors.
- Offshore quality.

Certifications: ISO 14001 ISO 9001 OHSAS 18001



# GAHN, LOGÍSTICA, GESTIÓN Y CONSULTORÍA, S.A.

C/ Velázquez, 11, 6.º dcha. 28001 Madrid Tel.: +34 915764266 www.gahn.es

GAHN specializes in the integral management of turnkey projects, which require the participation of several companies, forming a joint venture. For 30 years it has been providing these integrated services to the Armed Forces and the State Security Forces, which include: 1) planning; 2) technical control and monitoring; 3) customized information systems; 4) integration of processes, drawing up of management and control procedures; 5) coordination of the parties; 6) technical and quality coordination and monitoring; 7) management and advice to the joint venture; and 8) customized logistics. The company has extensive experience in consortia in the framework of the EDAP, identifying projects, objectives, companies, formation of the consortium for the presentation of the project to the EU, carrying out integral management from the initial phase to the execution.

Certifications:	
ISO 14001	
ISO 27001	
ISO 9001	
ISO 45001	



### **IBATECH TECNOLOGÍA, S.L.U.**

C/ Doña Juana I de Castilla, 50 28027 Madrid Tel.: +34 913759465 www.ibaconsultores.es

IBATECH Tecnología S.L.U., is an engineering company formed by a team of professionals with over 20 years' experience in the field of CBRNe, carries out its activity in the following areas:

- Developing proprietary technology for research and development initiatives pertaining to the MoD, HORIZON Europe, EDA, CBRN-CoE, NSPA and EDF, among others.
- Land, sea and air-based CBRNe systems integration solutions and projects including critical infrastructures.
- Detection, identification and decontamination of chemical, biological, radiological, nuclear and explosive agents (CBRNe).
- Consultancy and national and international cooperation.
- Training and definition of CBRNe working procedures and protocols.

This work focuses on the military, security and emergency services primarily as well as other customers and end users who may benefit.

Certifications: ISO 14001 ISO 27001 ISO 9001 ISO 45001



## IN-NOVA, PROGRAMA DE INNOVACIÓN INTERNACIONAL S.L.

C/ Río Jarama, 132, edif. 4.03, bajo C 45007 Toledo Tel.: +34 925245970 www.in-nova.org

The name In-Nova was coined to denote a "project incubator", given that it is an entity that promotes the development of activities right from the start and up to the prototype or demonstrator status.

During this entire process, it carries out knowledge transfer actions and supports change processes.

Therefore, In-Nova produces and shares applied outcomes of prototypes, demonstrators and technologies through its own lines of research, technological development and innovation (R&D&i), thereby resulting in a transfer, an appropriation or a cooperation of the same, which have a notable impact on a market, a society or a business fabric.

Certifications: ISO 166002 ISO 9001



### INTEGRACIÓN TECNOLÓGICA EMPRESARIAL, S.L.

C/ Navia, 6 28670 Villaviciosa de Odón (Madrid) Tel.: +34 914916505 www.ite-es.com

Integración Tecnológica Empresarial was established as an ancillary company of the defence sector, formed by a team of professionals with over 15 years of experience. Since its inception, ITE has been geared toward leading projects and comprehensive turnkey services, including the design and manufacturing of equipment tailored to the customer's needs. Using management techniques to ensure that our customers have a satisfying experience in their dealings with us and to ensure that it is easy for them to monitor their projects, we adapt to their needs. Services:

- Engineering/ILS.
- Training.
- Technical assistance.
- Maintenance, modernization and repairs.
- Spare parts management.
- Wiring.
- Strategic consulting.
- R&D&i.

Certifications: ISO 14001, ISO 9001, UNE EN 9100, ISO 45001, ISO 27001, ENS - NATIONAL SECURITY SCHEME, ISO 20000, ISO 22301, UNE EN 9110

## SGS TECNOS, S.A.U.

C/ Trespaderne, 29 28042 Madrid Tel.: +34 913138000 www.sgs.es

SGS is the world's leading inspection, verification, testing and certification company. We are recognized as a global benchmark for quality and integrity. With over 89,000 employees, we operate a network of more than 2,600 offices and laboratories around the world.

SGS

Certifications: ISO 9001 ISO 14001 PRI-NAPCAD ISO 45001 EASA PERAM 145 (NATIONAL SECURITY SCHEME)



### SOPRA STERIA ESPAÑA, S.A.U.

Avenida de Manoteras, 48 28050 Madrid Tel.: +34 911128000 www.soprasteria.com

Sopra Steria, a European leader in consulting, digital services and software development, helps its customers drive their digital transformation to obtain tangible and sustainable benefits. With 47,000 employees in 30 countries, the Group generated revenues of €4.7 billion in 2021. In Spain, Sopra Steria has been present since the year 2000 and has more than 4,000 professionals distributed in 11 branches. The company offers its customers the Aeroline division, a transnational organization dedicated to responding to the needs of the aerospace and defence sector, with more than 4,500 employees in six countries. Sopra Steria is the preferred technology and digital strategy partner of the main manufacturers and suppliers of the European aerospace and defence business.

Certifications: ISO 9001 UNE EN 9100 ISO 14001 ISO 27001 ENS – NATIONAL SECURITY SCHEME





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