



MINISTRY OF
DEFENSE

PRODUCTS CATALOG FROM THE BRAZILIAN DEFENSE INDUSTRIAL BASE



SEPROD
SECRETARIAT OF DEFENSE PRODUCTS



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**PRODUCTS
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THE BRAZILIAN
DEFENSE
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SECRETARIAT OF DEFENSE PRODUCTS



JOSÉ MUCIO MONTEIRO FILHO
MINISTER OF DEFENSE OF BRAZIL

THE INDUSTRIAL DEFENSE BASE PILLAR OF NATIONAL SOVEREIGNTY

National defense is one of the fundamental pillars of Brazil's sovereignty, territorial integrity, and international projection. The Ministry of Defense acts in an integrated and strategic manner, promoting actions that guarantee not only the country's security, but also its scientific, technological, economic, and social development. The Defense Industrial Base (DIB) is an essential part of this effort, representing a dynamic, innovative, and high value-added sector whose activities transcend the military field and contribute directly to strengthening national power.

The mission of the Ministry of Defense — to promote an integrated defense effort to guarantee national interests — is intrinsically linked to the stimulation of the Brazilian defense industry. This industry, composed of companies with a high degree of specialization and highly qualified human resources, is responsible for developing and providing the necessary means for the preparation and employment of the Armed Forces, with technologies under national control and, preferably, dual use, that is, with both military and civilian applications.

The DIB is, therefore, a strategic vector for the country. Its products, of high technological complexity, not only meet the operational requirements of the Armed Forces, but also drive innovation, generate jobs, income, and taxes, attract foreign investment, and promote international cooperation and regional integration. All of this has a significant impact on strengthening the national GDP and also on the export balance. As a reference, we can consider that, in the last three years, the country has

recorded significant rates in authorized exports of defense products, achieving successive records in 2024 and 2025.

The dual-use nature of DIB products and services further increases their relevance, as solutions originally developed for defense can also be applied in sectors such as healthcare, public safety, energy, environmental protection, and infrastructure.

The Ministry of Defense supports and promotes the DIB as a key instrument of sovereignty and national development. Through partnerships with a wide range of federal government entities, including ministries, regulatory agencies, public banks, and professional associations, it advances public policies and initiatives aimed at strengthening the competitiveness, productive capacity, and international integration of Brazil's defense industry.

The close relationship between defense and development is undeniable. A modern and effective defense structure requires continuous technological and scientific advancement, which can only be sustained by a strong, innovative domestic industry aligned with the country's strategic interests. By strengthening the DIB, Brazil also enhances its ability to protect its citizens, territory, interests, and values, while projecting influence on the international stage and expanding the creation of new opportunities.

This catalog presents a representative selection of the excellence of the Brazilian defense industry. Each product featured is the result of a collaborative effort among the State, the private sector, and academia, reflecting Brazil's commitment to sovereignty, innovation, and progress.



CINARA WAGNER FREDO
SECRETARY GENERAL OF THE MINISTRY OF DEFENSE

INSTITUTIONAL COMMITMENT TO STRENGTHENING THE DEFENSE INDUSTRY

Recognizing the pivotal role of the defense industry in strengthening national power, the Ministry of Defense (MoD) consistently works to advance the Defense Industrial Base (DIB). This is achieved through strategic initiatives focused on trade promotion, defense economics, science and technology, and regulatory optimization. This concentrated effort directly contributes to economic growth, the creation of highly skilled employment, and the enhancement of Brazil's competitiveness on the global stage.

Within this framework, the MoD's General Secretariat, specifically through its Secretariat of Defense Products, fulfills a vital function in bolstering the national defense sector. It facilitates direct engagement with the Minister and senior levels of public administration, strategically working to expand the institutional scope and impact of sector-specific activities.

Furthermore, this support encompasses the development and proposal of public policies that recognize the DIB as a strategic national asset. The Secretariat also provides essential administrative, financial, and technical management support for all industry-related activities overseen by the Ministry. This integrated approach is designed to ensure maximum efficiency, policy alignment, and consistent, reliable outcomes.

The DIB represents an invaluable national asset, generating significant benefits for both the Armed Forces and civil society. We acknowledge the commitment of the dedicated professionals within this sector and unequivocally reaffirm our own commitment to developing capabilities that reinforce national sovereignty, generate sustainable progress, and instill pride across the nation.



AIR FORCE LIEUTENANT GENERAL (RETIRED) HERALDO LUIZ RODRIGUES
SECRETARY OF DEFENSE PRODUCTS

BRAZILIAN DEFENSE INDUSTRY: A CAPABILITY THAT BUILDS CONFIDENCE AND DRIVES DEVELOPMENT

Brazil possesses a robust, innovative, and strategic Defense Industrial Base (DIB) that is fully capable of meeting the requirements of its Armed Forces while simultaneously driving national development. This catalog serves as a tangible demonstration of that capability. Far more than a mere product showcase, it functions as an official communication instrument that presents the full potential of our defense industry to Brazil and the world.

With the goal of fostering integration among the government, the Armed Forces, and the productive sector, this publication compiles comprehensive information on the products, services, and solutions developed by Brazilian companies, emphasizing their technological sophistication, dual-application utility (both civil and military), and high added value.

Every item featured is the direct result of technical expertise, innovation, and a firm commitment to national sovereignty.

Strategically distributed at military events, specialized trade fairs, embassies, and official missions, the catalog is intended to elevate the recognition of the DIB as a critical national asset. By publicizing the country's capabilities in science, technology, and innovation, it creates opportunities for international partnerships, cooperation agreements, and technology transfer.

The Ministry of Defense continuously supports the defense industry, acknowledging its fundamental importance. This support involves

various initiatives focused on sector promotion, innovation, and process enhancement. As a further measure to stimulate the DIB, the Ministry is actively engaged in developing and implementing a Government-to-Government (G2G) system for the export of Brazilian defense goods and services, which will streamline contracting processes for partner nations. Consequently, the industry makes a vital contribution to economic growth, job creation, and the strengthening of Brazil's position in the international market.

We express our appreciation and gratitude to all institutional partners who collaborate in reinforcing the DIB—especially the associations, unions, confederations, federations, and councils/committees that represent the defense and security industry. Your consistent support and active engagement are indispensable for Brazil to continue advancing with confidence, competence, and strategic vision.

This catalog is primarily addressed to government and military authorities, foreign delegations, investors, and sector buyers. To all those who find inspiration, opportunities, or potential partnerships within its pages, we reaffirm Brazil's unwavering commitment to peace, progress, and the defense of its strategic interests. We extend our best wishes for success in all your endeavors.



LUIZ CARLOS PAIVA TEIXEIRA
PRESIDENT, BRAZILIAN ASSOCIATION OF DEFENSE AND SECURITY
MATERIALS INDUSTRIES (ABIMDE)

THE EXCELLENCE OF THE BRAZILIAN DEFENSE AND SECURITY INDUSTRY ON THE GLOBAL STAGE

The Brazilian Association of Defense and Security Industries (ABIMDE) is honored to present this Defense Products Catalog, produced in partnership with the Ministry of Defense and with the crucial support of ApexBrasil. This publication represents a significant milestone for the Defense Industrial Base (DIB) and underscores ABIMDE's continuous commitment to promoting the national industry as a foundational pillar of sovereignty, innovation, and development in Brazil.

The creation of this catalog is a direct response to a need identified by ABIMDE several years ago. During trade missions and international events, it became clear that foreign delegations had a growing interest in the solutions developed by the Brazilian defense and security industry. Consequently, this material was designed to offer a comprehensive overview of national capabilities, bringing together highly complex products and technologies that reflect the competence, creativity, and reliability of Brazilian industry.

The DIB is comprised of companies renowned for their technical excellence, innovation, and contribution to the advancement of the defense sector. Their products and services, which are frequently dual-use, contribute not only to strengthening the Armed Forces and public security institutions but also to advancing strategic civilian areas such as energy, infrastructure, the environment,

and technology. This inherent versatility highlights the defense industry's critical role as a driver of economic and social development.

With over four decades of activity, ABIMDE has established itself as a vital link among the productive sector, the government, and academia. It operates to defend industry interests, stimulate innovation, and expand the international presence of Brazilian companies. The partnership with ApexBrasil further reinforces this mission by expanding the DIB's footprint in strategic markets and promoting technological and commercial exchange with partner countries.

The Defense Products Catalog is, therefore, more than a simple showcase: it is an expression of Brazil's capacity to project its industrial, technological, and scientific competence onto the global stage. Each solution presented herein reflects the collective effort of thousands of professionals and institutions committed to national sovereignty and the strengthening of national power.

Through this publication, ABIMDE reaffirms its dedication to promoting the competitiveness, visibility, and credibility of the Brazilian defense and security industry, thereby helping to consolidate Brazil's position as a strategic, reliable, and innovative partner within the international community.

FOREWORD



FREDERICO AGUIAR
PRESIDENT, UNION OF DEFENSE AND SECURITY MATERIALS
INDUSTRIES (SIMDE)

THE STRENGTH OF THE BRAZILIAN DEFENSE INDUSTRY FROM A GLOBAL PERSPECTIVE

We recognize that the sustainability of a Defense and Security Industrial Base (DSIB)—especially one with the complexity and scope that Brazil has built over a trajectory marked by challenges and risks—cannot be maintained without internationalization. The pursuit of markets and partnerships, therefore, becomes a strategic imperative for the continuity and strengthening of the production chains involved. In this context, the visibility of our industrial, technological, logistical, engineering, and innovation capabilities, as expressed through our defense and security products and services, must be promoted in an adequate, planned, and orchestrated manner.

This Catalog, a commendable initiative by the Ministry of Defense, serves as a comprehensive

showcase and an organized repository of knowledge regarding Brazil's potential across the spectrum of the Defense and Security Industry. It is also a source of pride for all those who contribute, with resilience, inventiveness, and entrepreneurship, to strengthening our industry, ensuring the social stability of the Nation, and affirming national sovereignty.

SIMDE, therefore, commends the Ministry of Defense for this initiative. We express our hope that the Catalog will successfully expand market opportunities and contribute significantly to Brazil's projection on the international stage as the holder of a Defense and Security Industrial Base that is credible in its performance and technologically innovative.

FOREWORD

VISUAL IDENTITY OF DEFENSE COMPANIES

The official logo for Defense Companies (ED) and Strategic Defense Companies (EED), which was created by the Ministry of Defense, functions as a seal of institutional recognition. It conveys credibility and confidence to both the domestic and international markets by certifying that the company complies with strategic requirements defined by the State.

This institutional recognition differentiates the ED or EED from competitors that lack this status, thus strengthening the company's corporate image. The authorized use of the logo on promotional materials, at trade shows, and in contracts reinforces the company's strategic positioning. Ultimately, the brand adds value to products and services, making them more appealing to customers and partners, especially in international negotiations. It serves as a vital marketing tool that increases competitiveness and opens doors to new markets.



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MINISTRY OF
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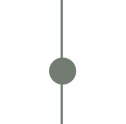
BRAZIL
DEFENSE

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MINISTRY OF
DEVELOPMENT,
INDUSTRY, TRADE
AND SERVICES



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THE HISTORY OF THE BRAZILIAN DEFENSE INDUSTRY

THE FOUNDATION OF THE NATIONAL INDUSTRY

The foundation of the national industry began in a fragmented manner, characterized by external dependence until the early 20th century and reliance on intermittent activity from military arsenals. Consolidation gained momentum during the Vargas Era with the creation of the Companhia Siderúrgica Nacional (CSN) and the Fábrica Nacional de Motores (FNM), which set the stage for the emergence of key defense companies such as Embraer, Engesa, and Avibras.

Between the 1960s and 1980s, Brazil experienced its “golden age,” achieving international recognition for products such as the Cascavel and Urutu armored vehicles, the Bandeirante and Tucano aircraft, and the ASTROS rocket system. These milestones positioned the country among the major defense exporters of that period.

SCIENCE, TECHNOLOGY, AND INNOVATION: PILLARS OF SOVEREIGNTY

The current moment for the DIB is one of growth and consolidation, sustained by legal frameworks and a strategic vision that positions Science, Technology, and Innovation (ST&I) as the pillars of national sovereignty.

More than just protecting borders, modern defense now requires mastery of critical technologies, such as artificial intelligence, nanotechnology, and space systems—all areas

The end of the Cold War initiated a period of contraction and crisis, leading to the collapse of several strategic companies. The recovery began in the 2000s with the establishment of legal frameworks and programs designed to reinforce the Defense Industrial Base's (DIB) role in national sovereignty. The implementation of Strategic Defense Companies (EED), the Special Tax Regime for the Defense Industry (RETID), and major projects—such as the PROSUB nuclear-powered submarine program, the KC-390 Millennium cargo aircraft, and the Guarani Armored Personnel Carrier (VBTP)—have consolidated a more robust and innovative industrial base.

Today, the DIB is firmly established as an essential sector for Brazil's technological autonomy, economic development, and international projection.

defined as priorities by the Ministry of Defense.

Within this ecosystem, the Secretariat of Defense Products (SEPROD) articulates the Armed Forces, industry, and academia into cohesive research and development programs, thereby transforming knowledge into national power. This integration ensures technological autonomy and positions the DIB as a driver of innovation and development for Brazil's future.





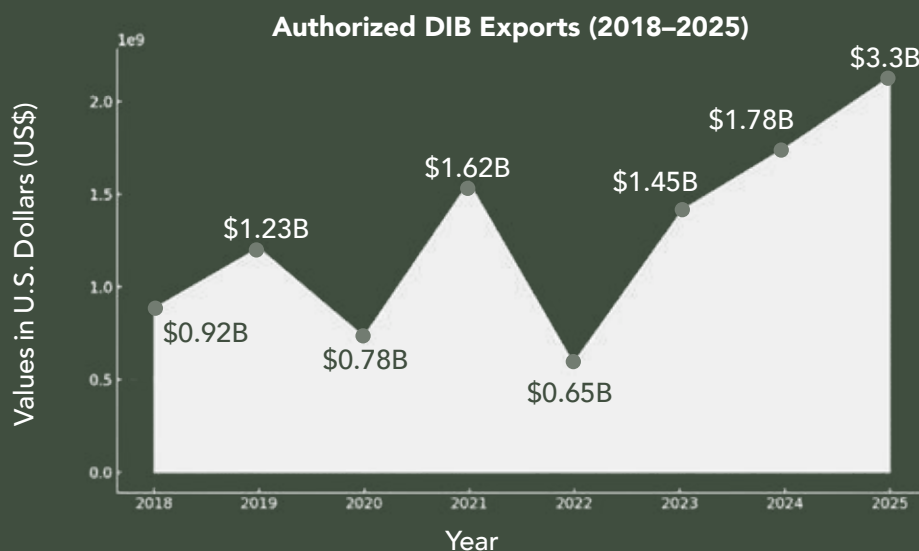
AN ECONOMIC AND INNOVATION ENGINE: THE DEFENSE INDUSTRY

The Brazilian Defense Industrial Base (DIB) is established as a crucial economic engine for the country, operating with a high degree of technology and innovation. This industry is a pillar that supports national development, contributing significantly to the economy: the sector, combined with the defense budget, is responsible for comprising 4.29% of the Gross Domestic Product (GDP), moving more than R\$ 350 billion.

Furthermore, the innovation capacity of its more than 300 registered defense companies results in a portfolio of over 2,000 accredited products. The dual applicability of these products—for both the defense and civil sectors—boosts the industry's global competitiveness.

In this context, the representative sector associations—ABIMDE, SIMDE, ABIMAQ, and PITSJC—bring together over 1,200 companies that export an average of US\$ 2 billion in defense solutions. This volume reaches US\$ 4 billion when dual-use production is considered, demonstrating their strength in approximately 140 countries.

Between 2018 and 2025, the sector accumulated US\$ 11.7 billion, with record material export authorizations of US\$ 3.3 billion in 2025. More than just an instrument of defense, the DIB is an engine of innovation, sovereignty, and development, projecting Brazil as a technological reference on the international stage.



Source: Data from December 2025 from the Division of Import and Export (DEPCOM).

A STRATEGIC ASSET FOR BRAZIL'S FUTURE

Uniting companies that operate with a strong commitment to the nation, the DIB is, above all, a strategic asset for guaranteeing Brazil's sovereignty and security. Its relevance lies in the fact that it is the sole entity responsible for critical activities in the country, such as the research, development, production, maintenance, and modernization of defense products.

The continuous strengthening of this base is a necessity for national defense, as it ensures technological autonomy in essential areas like aircraft, vessels, radars, cyber solutions, and secure communication systems. In this manner, the DIB guarantees that the country possesses the internal capacity necessary to meet its security demands, thereby mitigating external dependence and planning for the future of its defense.



MINISTRY OF
DEFENSE

DEFENSE INDUSTRIAL BASE PRODUCTS AND SERVICES



SEPROD
SECRETARIAT OF DEFENSE PRODUCTS



AIR AND SPACE PLATFORMS

Aircraft
Helicopters
UAV (Unmanned Aerial
Vehicles)
Anti-Drone Systems
Satellites



KC-390 MILLENNIUM

The KC-390 Millennium is a military tactical transport aircraft capable of carrying a useful load of up to 26 tons at a maximum speed of 470 knots (870.44 km/h). Capable of executing a wide range of missions, such as the transport and launching of cargo and troops, medical evacuation, Search

and Rescue (SAR), firefighting, and humanitarian operations, operating on temporary or unpaved runways, such as those made of packed earth, soil, or gravel. The aircraft can also be configured with Air-to-Air Refueling (AAR) equipment, operating both as a tanker and as a receiver.





A-29 SUPER TUCANO

The A-29 Super Tucano is a global leader in the Light Attack aircraft category, selected by 22 Air Forces and boasting over 600,000 flight hours. It is designed for air forces seeking a proven, comprehensive, efficient, reliable, and economical solution in a single platform, combined with great operational flexibility.

The aircraft operates across a wide range of missions within three segments: Light Attack, Armed Reconnaissance, and Advanced Trainer. Among its principal missions, we can list Close Air Support, Border Surveillance, Air Patrol, Reconnaissance, Air Escort, and Advanced Pilot Training.



COMMERCIAL AND EXECUTIVE AIRCRAFT: E-175, E-195, E-190 E2, PRAETOR 600, PRAETOR 500, PHENOM 300, AND PHENOM 100

The E-175, E-195, E-190 E2, Praetor 600, Praetor 500, Phenom 300, and Phenom 100 aircraft combine technology, reliability, and safety with a decades-long tradition of supplying aircraft for the transport of authorities and large delegations. Manufactured by Embraer, they offer the ideal solution for any mission—from short-haul flights to long-distance travel with large delegations.





H225

HELIBRAS



The H225 is the preferred helicopter of commercial operators and governmental agencies for its long-range and all-weather Search and Rescue (SAR) capabilities. Produced by Helibras in Itajubá/MG, the H225 has a national manufacturing index of approximately 50%. With high payload capacity and long range, it stands out as the most economical for offshore crew changes. It has versatile configurations to meet missions such as aerial work, firefighting, passenger transport, police, and utility missions. As a reference in its field, the H225's autopilot provides precision, stability, flight envelope protection, and pilot assistance—including specific superior modes for Search and Rescue (SAR). The military version, the H225M, has already performed operations in at least 20 countries around the world.



H125

The H125 (AS350 B3e), from the Esquilo family, surpasses all single-engine helicopters in performance and versatility, in addition to excelling in extreme environments, at high altitudes, and high temperatures. With high maneuverability, excellent visibility, and low cabin vibration levels, the H125 has earned its reputation as a powerful multi-mission helicopter—frequently seen at heliports, hospital helipads, police department operation centers, military bases, and airports worldwide. More than 7,200 aircraft from the Esquilo family have been delivered to 133 countries for over 2,600 operators. Together, these helicopters have accumulated more than 40 million flight hours. The H125 remains the undisputed leader in its class for 30 years.

HELIBRAS





ATOBÁ UAS

The Atobá is the largest aerial platform developed in Latin America. It combines high payload capacity and extensive flight autonomy, enabling the execution of complex and challenging missions with efficiency and precision. It is ideal for monitoring borders and large geographical areas. Its maximum takeoff weight is between 500 and 700 kg, it has a length of 8 meters, and a wingspan of 11 meters. It possesses an engine power between 65 and 112 H.P., a payload of 160 kg, an autonomy of 24 hours, and a datalink range of 300 km. The system allows for takeoff and landing on 400-meter runways and offers the capability to integrate multiple types of sensors, ensuring versatility and performance in different operational scenarios.



ALBATROZ UAS

A high-versatility aerial platform, designed to meet diverse operational demands. With great autonomy, it stands out for its ability to operate both from aircraft carriers and from unprepared runways with a minimum length of 150 meters, ensuring maximum efficiency and flexibility in critical missions. It has a Maximum Takeoff Weight (MTOW) of 150 kg, a length of 4 meters, a wingspan of 7 meters, an engine power of 22 H.P., and a payload capacity between 5 and 30 kg. It features a flight autonomy of up to 24 hours, a datalink range between 150 and 250 km, a takeoff and landing distance of 150 meters, and the possibility of integrating multiple types of sensors.





DUAL-USE UNMANNED AERIAL SYSTEM (UAS) PLATFORMS

They consist of remotely piloted aircraft systems, of customized types and sizes, due to their modular architecture. Their dual-use nature makes their employment possible in civil and military applications. Produced by BRVANT, they are Strategic Defense Products (PED), certified by the Brazilian Ministry of Defense (MD) and by the National Civil Aviation Agency (ANAC), a signatory of ICAO..



BRVANT



AVIONICS
services
COM 9605-01/ANAC



CAÇADOR II UAS

This is a Class 4 Unmanned Aerial Vehicle (UAV), developed for civil and military use in various applications, such as anti-drug operations, pollution monitoring, environmental protection, combating illegal fishing, border surveillance and irregular immigration, firefighting and emergency response, protection of security infrastructure (oil, gas, and electricity), anti-piracy operations, and Search and Rescue (SAR) missions. Avionics Services is responsible for the production, maintenance, and operation process of this aircraft, consolidating its performance in the development of advanced technological solutions for complex and strategic missions.



A200 UAS

The A200 is a high-performance Unmanned Aerial Vehicle (UAV) developed by Akaer Engenharia for surveillance, patrolling, and reconnaissance missions. With a modular design and robust structure, the A200 is capable of operating in challenging environments, offering versatility and reliability. Equipped with advanced navigation systems and state-of-the-art sensors, it provides accurate, real-time data, establishing itself as a strategic solution for military and public security applications.



NAURU UAS

The Nauru System is a family of high-performance Remotely Piloted Aircraft (ARP), designed for tactical and strategic Defense missions.

The Nauru 100D is a stealth and quick-assembly platform (in less than 3 minutes), equipped with on-board artificial intelligence. It offers 2 hours of autonomy and a range of up to 30 km. It features RGB and LWIR sensors, which provide high-definition, real-time images for surveillance and target acquisition.

The Nauru 500C ISR, optimized for Intelligence, Surveillance, and Reconnaissance (ISR), operates in BVLOS mode (above 400 ft) and uses a VTOL system, allowing takeoff and landing in areas without infrastructure. It has 4 hours of autonomy and a range of up to 60 km, with Full HD cameras (30x zoom) and high-performance thermal sensors.

The Nauru 1000C is the most complete system in Latin America, adopted by the Brazilian Army for border monitoring. Composed of three ARP and autopilot redundancy, the system ensures continuous monitoring and real-time data management, elevating situational awareness in combat operations and consolidating itself as a strategic asset for national sovereignty.



xmobots | defense





HARPIA UAS

The HARPIA is a multi-purpose, high-performance, and long-range drone, approved as a Strategic Defense Product and authorized for use in Public Security. It stands out for its operational simplicity, communication range of up to 267 km, and 12-hour autonomy. Capable of integrating various payloads, the HARPIA can operate with cameras EOS/IR for real-time monitoring, optical and SAR mapping systems, in addition to Electronic Warfare equipment aimed at communication interception and radar location. The system has already been used in public security missions, in Brazilian Army exercises, and in supporting the security of the inauguration of the President of Uruguay, Yamandú Orsi.



ADVANCED
TECHNOLOGIES
SECURITY & DEFENSE



TAURUS



TACTICAL AIR SOLDIER (TAS) UAS

A quad-motor drone constructed from carbon fiber and aluminum, designed for tactical missions that require high precision and mobility. Equipped with a stabilized 4K camera and differential GNSS, the TAS allows for target tracking and automatic return, ensuring safety and efficiency in operations. It also features mounting points for remotely actuated weaponry, a range finder, a laser pointer (in green, red, or infrared versions), and optics for both day and night use. With a flight autonomy of up to 25 minutes and a range of 20 km, the system offers robust and reliable performance in complex operational scenarios.

FORTRESS UAS

The project aims to develop and certify the RPAS system with FORTRESS technology, improving the manufacturing process of rotary-wing drones with combustion engines. Manufactured predominantly in Brazil, the system seeks to optimize production, generate employment, train local workforce, and increase operational efficiency. The objective is to transform the existing prototype into a certified product, ready for industrial production and commercial use.



FORTRESS
EQUIPAMENTOS INDUSTRIAIS





ELANUS UAS

A foldable tactical drone, easy to transport and quick to deploy, designed to offer operational versatility. It allows for the agile integration of payloads such as infrared or multisensory cameras, loudspeakers, and launchers, making it ideal for defense, security, Search and Rescue (SAR), and humanitarian support missions. Manufactured using aeronautical aluminum alloy and carbon fiber, it supports heavy payloads, enabling the use of advanced sensors and high-definition cameras.



REDTECH
SECURITY



CONDOR DROP® UAS

A solution with a remote system for the aerial launch of cartridges with high-precision non-lethal technologies, designed for remote activation and capable of ensuring safety for both agents and operational targets. The result of a continuous commitment to innovation, this technology represents years of investment in research, focusing on risk mitigation and promoting safe and effective action. Operation is recommended at altitudes between 30 and 70 meters, with a flight autonomy of 20 minutes and a range of up to 5 km (line of sight and without interference), in addition to a maximum speed of 20 km/h and customized routes with GPS precision. The system also features an on-board camera in 1440p, a 4x digital zoom, a 3-axis gimbal, and thermal imaging.



CONDOR
NON-LETHAL TECHNOLOGIES



TIFÃO UAS

A large-capacity drone developed for rescue and climate crisis response, offering an innovative solution for critical situations such as floods and natural disasters. Designed to combine operational versatility and national technology, the Tifão can transport approximately 100 kg, making it possible to send humanitarian aid kits to isolated areas and integrate with Synapse Aeromédica, which ensures direct communication between rescue teams and victims. Its modular architecture allows for the coupling of intelligent gadgets, such as firefighting systems, terrestrial robots, and aquatic drones. Recognized at events like Expo Defense, Mostra BID Brasil, Expo Favela, and South Summit Brasil 2025, the Tifão represents a milestone in innovation applied to defense, security, and humanitarian operations.





COUNTER-DRONE - DRONEBLOCKER 0100 AND 0200

An advanced system for blocking unauthorized drones, developed by IACIT, designed to protect sensitive areas and support security forces in critical operations. Capable of neutralizing drones and SARP at long distances, the system integrates multiple sensors—including cameras, radar, Radio Frequency (RF) sensors, and acoustic sensors—ensuring real-time detection and response. Its portable antennas allow for installation on elevated structures or posts, making them ideal for special missions and large events. IACIT offers a complete solution against drone attacks, with the DRONEBlocker 0100, aimed at military applications, and the DRONEBlocker 0200, developed for civil use. Both are capable of neutralizing simultaneous attacks by multiple drones, known as Drone Swarm, ensuring effective and scalable protection.



ANTIDRONE - ELANUS C-UAV DETECTION AND NEUTRALIZATION

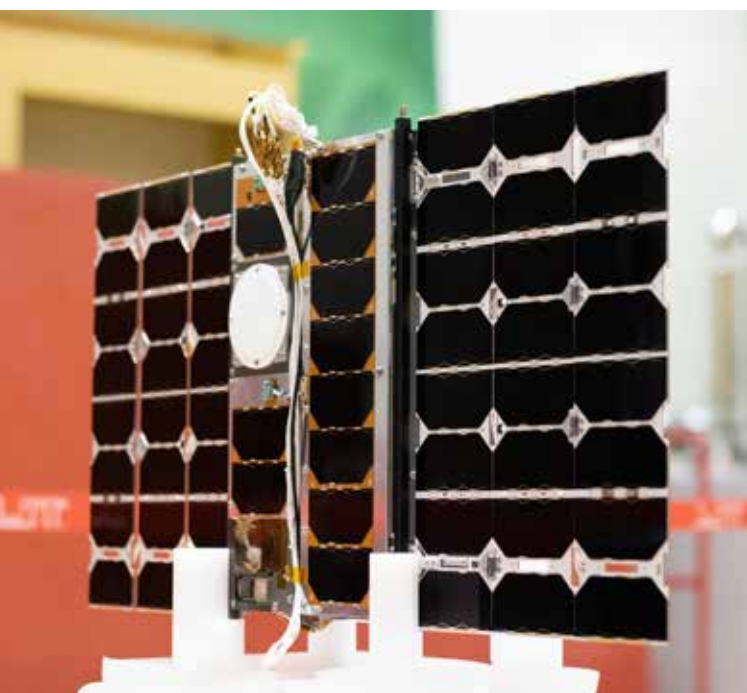
A compact and easily transportable device, ideal for dynamic missions. Capable of detecting, identifying, and neutralizing commercial drones, the equipment indicates the target's location and can block its communication. It features a foldable screen that displays real-time flight data and can operate independently or in a network, integrating multiple devices for expanded coverage and transmission of information to a centralized management system. Complementarily, the Detection and Identification C-UAV offers advanced monitoring through passive RF detection, supporting 2.4 GHz and 5.8 GHz frequencies. The system identifies the coordinates of both the aircraft and the operator in real time, providing detailed information such as serial number, model, frequency, speed, altitude, and trajectory. It also features a "friend/foe" distinction system (white/black list), navigation resources, and comprehensive support for threat assessment.



COUNTER-DRONE - SIMAD

A passive system for the detection and suppression of drones of different types and sizes, developed from a defense perspective and designed with characteristics that place it among the most advanced anti-drone systems in the world. It consists of an extremely versatile set of uni- or multi-directional antennas, with long detection range, capable of monitoring and protecting potential points—fixed or mobile—or specific areas against intrusions by unauthorized drones, including multiple simultaneous threats. SIMAD allows for the monitoring of unmanned aircraft at various distances and altitudes, offering wide coverage and effective response. Completely safe, the system does not emit radiation, which makes it undetectable by adverse forces—a strategic advantage that consolidates it as one of the most effective solutions against threats in modern conflicts, whether symmetrical or asymmetrical.





VCUB NANOSATELLITE

The VCUB is a family of multi-purpose nanosatellites that follow the CubeSat standard, and can assume different configurations, such as 3U, 6U, 12U, and 27U, where 1U is equivalent, in space jargon, to a 10-centimeter cube. The VCUB-1, the first satellite in the family, operated with two payloads: a multispectral optical camera, with a Ground Sample Distance (GSD) of 3.5 meters, and a Software Defined Radio (SDR) for data collection, featuring software developed by Visiona and remotely updateable while the satellite is in orbit.



GROUND PLATFORMS

Armored Vehicles
Trucks
Light Vehicle

**IDV**

ARMORED AMPHIBIOUS VEHICLES 6X6 - GUARANI

The Guarani is a family of 6x6 armored amphibious vehicles, equipped with a 9-liter, 380 H.P. common rail bi-fuel engine, automatic transmission, and an independent McPherson-type suspension system. The APC (Armored Personnel Carrier) model has the capacity to transport up to 11 fully equipped military personnel.

Measuring 6.9 meters long, 2.7 meters wide, and 2.3 meters high, the Guarani can be transported by C-130 Hercules and KC-390 aircraft. Furthermore, it can be configured with weapon systems ranging in caliber from 5.56 mm to 30 mm.



ARMORED TACTICAL VEHICLE - AM 31 CD ARMORED LEVEL III - VTE 1 ½

The Armored Specialized Tactical Vehicle (VTE 1 ½ Ton) — Agrale Marruá AM31 VOP1 — is a 4x4 utility truck designed for tactical missions in difficult-to-access terrain. It features Level III armor, composed of ballistic steel and composite materials, applied to the passenger compartment, cabin, and floor. It also has ballistic glass and run-flat tires.

Equipped with a 167 H.P. Cummins 3.8 Euro III diesel engine, the vehicle features floating axles, a Power Lock differential, and a suspension system with semi-elliptical springs. For enhanced performance in off-road operations, it has a two-speed transfer case.



TACTICAL AND OPERATIONAL VEHICLES - AGRALE MARRUÁ

The Agrale Marruá line (models AM31, AM21, and AM23) constitutes a family of 4x4 tactical and operational vehicles, equipped with a 167 H.P. Cummins 3.8 Euro III diesel engine.

The models range from the pickup configuration—with a load capacity of ¾ ton (750 kg)—to the 1 ½ ton (1,500 kg) utility truck, in the VOP 2 cab/chassis version. The armored VTE version (1 ½ ton – VOP1) offers Level III ballistic protection, ballistic glass, and run-flat tires.

All models feature floating axles with Power Lock differential lock and reinforced suspension for intense off-road use, ensuring high versatility and performance in military operations.



**IDV**

MULTITASK ARMORED VEHICLE - LMV-BR 2 (GUAICURU)

The LMV-BR 2 is a 4x4, multitask, armored vehicle, equipped with a 3-liter, 190 H.P. common rail bi-fuel engine, automatic transmission, and an independent McPherson-type suspension system. It has the capacity to transport up to five fully equipped military personnel.

Measuring 4.8 meters long, 2.2 meters wide, and 2.2 meters high, the LMV-BR 2 can be transported by C-130 Hercules and KC-390 aircraft. Furthermore, it can be configured with weapon systems ranging in caliber from 5.56 mm to 12.7 mm.



ULTRALIGHT TACTICAL OFF-ROAD VEHICLE - UTV COMBATT

Manufactured in Brazil and designed for tactical combat missions that require high mobility and agility in adverse terrain, the vehicle is available in two configurations—air-transportable and conventional—which share robust technical specifications: 1.6 L central engine (4 cylinders), rear-wheel drive, electric winch with a capacity of 3,856 kg, integrated chassis, carbon steel body, independent suspension, disc brakes on all four wheels, five-speed plus reverse transmission, LED lighting, and a digital dashboard. The modular structure allows for the transport of supplies, armament, and ammunition; the fuel tank has a capacity of 50 liters, complemented by two additional 25-liter jerrycans.

The main difference lies in the capacity of the versions. The single-cab version features two seats, measures 3.50 m in length, and weighs 800 kg, with a bed load capacity of 500 kg, while the double-cab version offers four seats, 4.40 m in length, and weighs 900 kg, with a bed load capacity of 300 kg.



NAFA



OPERATIONAL TRANSPORT VEHICLE - TRUCK A 10000 4X4 - VTNE 5 TON

A vehicle intended for the transport of crew or cargo, with low-speed 4x4 traction and a two-speed transfer case for off-road use. It features a rigid steel cabin and a military body made of galvanized steel, ensuring robustness and durability in field operations. Equipped with a 167 H.P. Cummins 3.8 Euro III diesel engine, it has a floating front axle and a floating rear axle with a self-locking system. The front and rear suspension use semi-elliptical springs and double-acting telescopic shock absorbers, complemented by drum-type service brakes. It is a version of the Agrale Marruá AM41—VTNE 2 ½ ton—VOP1, with greater total load capacity.

 **AGRALE**





AIRPORT VEHICLE - AP-2 AND AP-4 CCI

Airport Fire Fighting Vehicles, developed according to the requirements of RBAC 153, offering high performance and reliability in emergency situations. Both models operate with Euro 6 engines—450 hp in the AP-2 and 560 H.P. in the AP-4—which power both the locomotion and the high-performance centrifugal pump (2,850 L/min in the AP-2 and 5,500 L/min in the AP-4).

The AP-4 features greater operational capacity, with tanks of 11,000 liters of water and 1,500 liters of LGE, while the AP-2 has tanks of 6,100 liters of water and a smaller volume of LGE, making it suitable for smaller runways.

Both vehicles are equipped with monitor cannons (installed on the roof and bumper), a dry chemical powder system (180 kg in the AP-2 and 250 kg in the AP-4), side equipment compartments, reels, and a robust aluminum body, equipped with access ladders and LED lighting, ensuring fast, safe, and effective operations in the airport environment.

TROOP TRANSPORT VEHICLE

A 4x4 tactical platform that offers robust solutions for military missions and disaster response actions. Equipped with a reinforced metallic body for up to 30 military personnel, 4-point seat belts, anti-slip floor, and a vinyl canopy. It also features a 5-ton winch, LED lighting, emergency signaling, and side compartments for storing materials and equipment.





NAVAL PLATFORMS

Surface Ships
Submarines
Other Vessels



"RIACHUELO" CLASS SUBMARINE

The Riachuelo Class Submarines (S-40, S-41, S-42, and S-43) are modern diesel-electric propulsion assets, approximately 72 meters long, with the capacity to operate submerged for up to 80 days. Equipped with advanced combat systems and latest-generation sensors, they are designed for stealth patrol and deterrence operations at great depths.

Resulting from the Submarine Program (PROSUB), developed in partnership with France, these vessels represent a technological and industrial milestone in the history of National Defense,

solidifying Brazil's capacity to design, construct, and maintain highly complex submarines.

Featuring silent propulsion and an optimized hydrodynamic design, the Riachuelo Class offers high stealth capability, which is essential for guaranteeing strategic advantage and operational superiority.

These submarines reinforce Brazil's sovereignty over the Blue Amazon—a 5.7 million km² maritime area, rich in natural resources and vital for 95% of Brazilian foreign trade—ensuring presence, surveillance, and protection.





TAMANDARÉ CLASS FRIGATES

The Tamandaré Class Frigates represent a new generation of escort ships, designed to offer high combat capability, operational versatility, and resilience in the maritime environment.

With a length of 107.2 meters, a maximum beam of 15.95 meters, and a displacement of 3,500 tons, the vessels are equipped with a flight deck, a helicopter hangar, radars, sensors, and state-of-the-art weapon systems. Their design prioritizes stability, performance, and adaptability, allowing

for efficient operation in various sea conditions.

The frigates operate in all warfare environments—surface, air, and submarine—playing an essential role in defense, protection of maritime routes, and support for joint missions. They have capacity for 136 crew members, a helicopter, and a drone, an unmanned vehicle capable of performing vertical takeoffs and landings, expanding their surveillance and response range.

**EMGEPRON**

RIVERINE OPERATIONS BOATS (LOPRIB) - EXCALIBUR

The Excalibur, with a draft of 0.53 m, is ideal for low-depth rivers, such as those in the Paraguay and Amazon Basins. Built with naval aluminum, with the option of armor plating, it stands out for its high maneuverability, reliability, and robustness. Designed for critical missions, it combines constant performance, safety, and efficiency in diverse defense, security, and patrol scenarios.

The Conde da Cunha, with a draft of 0.64 m and also built with aluminum with optional armor, is aimed at patrol, inspection, and interdiction. It features excellent maneuverability, stability, rapid disembarkation capability, and optimized weight distribution. Robust, safe, and efficient, it offers versatility and high performance in critical security, defense, and monitoring missions on inland rivers.



200 AND 500 TON PATROL VESSELS

Designed for the surveillance and protection of Brazilian Jurisdictional Waters, they stand out for their high autonomy, energy efficiency, and extended operation capability. They are agile, robust, and versatile vessels, prepared to execute missions of coastal patrol, inspection, search and rescue, and logistical support under adverse conditions.



INACE



CLASS 3A HYDROGRAPHIC SHIPS

A vessel dedicated to the collection, processing, and analysis of hydrographic and bathymetric data, activities essential for nautical planning, updating navigation charts, and ensuring river safety. The Class 3A Hydrographic Ship is designed to perform these functions with high precision, directly contributing to the improvement of navigation safety and efficiency.

INACE



PATROL BOATS

Developed and built by INACE, they have an overall length of 22.80 meters and were designed for patrol, naval inspections, and subsidiary missions of the Navy. The Marlim Class patrol boats operate in actions to safeguard human life at sea, ensure the safety of water traffic, and prevent water pollution, and can also operate in logistical support, presence missions, and crew training. Six units were delivered to the Brazilian Navy (MB) and two to the Namibian Navy, totaling eight boats. The construction contracts were monitored by Emgprom.



INACE





MILITARY VESSELS - ARUANÃ

Produced to the highest standards and best practices of naval construction, they are ideal for police and military operations. The Aruanã model features an unsinkable "V" hull, constructed from naval aluminum, and is equipped with modern navigation, radio communication, and sonar systems. Its robust propulsion allows for rapid interceptions and highly efficient patrols. Designed to operate in different types of missions—patrol, interception, cargo transport, search and rescue—the Aruanã vessels combine customizable design, high durability, and cutting-edge technology, ensuring reliable performance in any operational scenario.



modirum

GESPI



INTERCEPTION BOAT - BM900T

An interception vessel developed by Black Marine, designed for naval missions, patrols, and special operations. Constructed from HDPE (high-density polyethylene), it possesses high impact resistance, excellent stability, a low radar signature, and reduced maintenance needs. With a length of 9.0 meters, 2 × 300 H.P. engines and an interception speed of over 40 knots, an autonomy of 280 nautical miles, and a modular configuration that allows for the integration of weaponry, sensors, and mission equipment.

**BLACK
MARINE**
NÁUTICO E TÁTICO





TACTICAL BOATS - DGS PRO

Vessels constructed from High-Density Polyethylene (HDPE), with a structure welded by extrusion and thermofusion, ensuring high resistance and durability. Equipped with a removable friction mitigation system made of Ultra-High Molecular Weight Polyethylene (UHMWPE) and featuring the exclusive X-HULL® and SISMAR® technologies, patented by DGS BOATS, they are designed and manufactured for military and professional use, offering superior performance, stability, and robustness in intense operations and demanding environments.



DGS



SCHAEFER
YACHTS



PATROL BOAT - SCHAEFER V33 PATROL

A vessel specially developed for the Armed Forces and Public Security forces. Commissioned by the Environmental Police of Santa Catarina, it was built based on the Schaefer V33 hull and custom-designed to meet the operational specifications of the corporation, which actively participated in the development in partnership with Schaefer Yachts. Modern, fast, and versatile, it is ideal for naval and patrol operations, operating in missions for the Navy, Federal Police, Army, Fire Department, and Environmental Police, in addition to piloting, border policing, and search and rescue.



LIFE RAFT - SOLAS ANGEVINIER

FLEXPRIN
M A R I N E



A life-saving equipment that fully complies with the SOLAS Convention (1974 and amendments) and international standards, ensuring the highest level of safety. Approved by the Brazilian Navy, it strictly adheres to the LSA Code and IMO resolutions MSC 81(70) and MSC 218(82), in addition to Normam-321. Available in capacities of 6; 8 to 10; 12 to 15; and 20 to 25 people, it is equipped with the SOLAS "A" type emergency pack.



FAST ATTACK CRAFT

Ideal for rapid attack or patrol operations in inland waters, it combines versatility, resistance, and safety equipment. It features an anti-slip deck, hydraulic steering, a 500-liter capacity tank and external floatation, navigation lights, a flag mast with lighting, automatic bilge pumps, a water draining kit, an electrical panel with five switches, a revolving light with siren and megaphone system, a canvas canopy, VHF radio, a battery with dual selector, fire extinguishers, certified life jackets, and life buoys.



MULTIFUNCTIONAL RESCUE VESSEL - GJ6.10 PROJECT

Designed for rescue operations in conflict scenarios and risks to human, military, and civil life, in accordance with national and international requirements and certifications for safeguarding life at sea. Humanitarian rescue capacity of up to 10 people in open sea areas (up to force 6 on the Beaufort scale).



FLEXPRIN
M A R I N E





EMGEPRON



UNMANNED SURFACE VEHICLE (USV) - SUPPRESSOR

A next-generation, multi-purpose autonomous vessel, built in Brazil, with dual-use application, meeting the demands of public security, environmental monitoring, and naval operations, such as mine warfare and ISR (Intelligence, Surveillance, and Reconnaissance) operations. Featuring advanced technology, high autonomy, and modern sensors, the SUPPRESSOR can operate via remote control or fully autonomously, offering robustness, high mobility, and excellent cost-effectiveness in critical missions.



WEAPONS AND AMMUNITION

Missiles
Rockets
Bombs
Explosives
Launchers
Small arms
Parts and components
Less-lethal weapons



SIATT



SURFACE-TO-SURFACE ANTI-TANK MISSILE - MAX 1.2 AC

The system features easy, simple, and intuitive operation, with reduced maintenance and high robustness for use in adverse conditions. It was designed to be highly resistant to countermeasures, including extremely low-power laser emissions.

The missile operates at a high cruising speed and does not have integrated GPS, which reinforces its resistance to interference. The laser detector,

installed in the rear section, detects the missile and the enemy's laser warning countermeasure system (LWCS) only 4 seconds before impact (target at 1,000 m distance).

With a high probability of hit, exceeding 92%, the system stands out for its reliable performance and efficiency in complex operational scenarios.



COASTAL AND LITTORAL DEFENSE SYSTEM (SDCL)

The SDCL (Coastal and Littoral Defense System) offers attack capability against maritime and land targets, employing MANSUP and MANSUP-ER anti-ship missiles, with target designation from multiple sources and sensors, including UAVs (Unmanned Aerial Vehicles) and satellites.

Designed for autonomous expeditionary operation, the system utilizes high-mobility, all-terrain compatible vehicles, and allows for decentralized deployment and integration between sensor and effector. The missile launch vehicle features configurable firepower: up to four missiles on an 8x8 platform or two missiles on a 6x6 platform. The firing range varies between 10 km and 200 km, with onboard fire control calculation and remote firing capability, ensuring safe and precise deployment from mobile positions.

The SDCL also includes optional vehicles, adaptable to operational doctrine, including a surveillance radar vehicle, an operational and intelligence vehicle, a remanufacturing/resupply vehicle (refueling), and a maintenance vehicle. The communication architecture incorporates VHF, HF, and SATCOM, and the navigation system combines INS with GNSS for precise navigation and guidance.



SIATT



ROCKET LAUNCHER SYSTEM - ARMADILLO

The Armadillo surface-to-surface rocket launcher system, from the Mac Jee Group, equips vehicles capable of firing 72 70 mm rockets, offering speed, versatility, and high mobility.





MCX MISSILE

The MCX missile is a surface-to-surface system with remote launch capability from a mobile platform, designed to offer high precision and performance. It has medium and short range, with encrypted bidirectional satellite link that ensures security and reliability in communications.

Its high-altitude and high-speed cruising flight ensures operational efficiency and accuracy in target engagement.

The solution is complete, integrating the aerial vehicle, the ground control station, as well as the launch and reload units. The entire system was developed under the ITAR-Free philosophy, ensuring technological independence and freedom of export.





127MM CALIBER HYPERSONIC ROCKET

A hypersonic launch system that combines an accelerating booster with a solid rocket motor powered by EOS propellant and a solid-fuel ramjet second stage, a configuration that ensures significantly superior performance and range compared to conventional rockets of the same caliber. Designed to operate in supersonic and hypersonic regimes, the system uses cutting-edge heat-resistant materials and optimized aerodynamic profiles to maximize speed and flight efficiency.

The product stands out for its structural integrity, manufacturing precision, and exceptional range capability, ensuring tactical superiority and proven reliability in operational trials.



70MM ROCKETS

The Strike 70 Rocket from Modirum Gespi is available in two technical versions. The variant with the MK100(A) motor, equivalent to the MK66, offers higher ballistic performance and uses three folding fins. The version with the GSP40 motor, equivalent to the MK40, has lower thrust and uses fixed fins, maintaining full compatibility with NATO 70 mm launchers. Both ensure reliability and versatility for aerial deployment on fixed-wing and rotary-wing aircraft.



The 70 mm rockets produced by CSD are compatible with guided and unguided operations, and with the aerial and ground launchers currently in service. Operationally, they are compatible with the APKWS guidance kit, with the M151/OTB-EF1/OTB-AA1/AS1/OTB-FR1 warheads, and with the M423 fuze.



SIATT



SURFACE ANTI-SHIP MISSILE - MANSUP

This anti-ship missile is designed for surface launch, being fired from ships in open sea naval operations or from land-based vehicles for coastal defense, offering a range of 70 km (beyond the horizon). Its navigation is based on an inertial system and features terminal guidance via active radar, resistant to jamming (electronic interference), using artificial intelligence for target designation. The flight is typically sea-skimming and adaptable to the sea state, allowing operation in adverse weather conditions. Propulsion is provided by a solid-propellant rocket motor, and the launch system is compatible with the infrastructure of other systems available on the market. The payload (warhead) is 150 kg, insensitive, with blast and fragmentation effects, and can be activated by impact or proximity.



ACRUX-FOG FAMILY OF TRAINING AND SOUNDING VEHICLES



ROCKETS - FOG30K, FOG100K, AND FOG120K-L

The Acrux line of sounding rockets offers modular solutions for personnel training, ground system calibration, and hypersonic regime testing, also functioning as targets for anti-aircraft systems and utilizing telemetry and recovery subsystems.

The FOG30K (Basic) utilizes a composite solid propellant motor and reaches up to 40 km apogee and 1,500 m/s, supports up to a 3 kg payload and includes parachute recovery.

The FOG100K (Intermediate), a higher-performance model with MFPS composite propellant, reaches between 100 and 110 km and 1,800 m/s, with up to a 5 kg payload. It incorporates a C-band transponder and a flight termination subsystem, applicable in future anti-aircraft defense or for area saturation.

The FOG120K-L (Advanced), with a liquid propellant motor, achieves up to 200 km and supports up to 20 kg of payload. It features inertial navigation, S-band telemetry, and controllable parachute recovery for reuse, making it ideal for advanced launch vehicle testing.



ASTROS FIELD ARTILLERY SYSTEM

The ASTROS is globally recognized as one of the most advanced surface-to-surface artillery rocket systems, combining operational flexibility and proven effectiveness across various nations. It is the only system capable of launching guided rockets, ballistic missiles, and tactical cruise missiles of different calibers,

utilizing the same platform, with an operational range varying from 9 km to 300 km. Distinguished by its high mobility, agility, and versatility, the ASTROS is ideal for Field Artillery operations, as well as for Coastal and Littoral Defense.



TRAINING ROCKETS - AV-FTI AND AV-FTB

Single-stage vehicles developed for the operational training of launch centers, featuring S-band telemetry instrumentation that allows for the execution of scientific and technological experiments.

These rockets have been frequently launched from the Barreira do Inferno Launch Center (CLBI) and the Alcântara Launch Center (CLA), demonstrating reliability and performance in operations.



AVIBRAS





MK SERIES GENERAL PURPOSE AIRCRAFT BOMBS - MODELS: GENERAL, PRE-FRAGMENTED, AND PENETRATION

The MK series General Purpose Aircraft Bombs from AEQ are available in 250 lb, 500 lb, 1000 lb, and 2000 lb models, with inert (training), Tritonal, TNT, or PBXN filler options.

The MK 80 series General Purpose Aircraft Bombs from CSD are compatible with all aircraft and pylons qualified for MK series bombs. The CSD MK 80 Bombs are fully compliant with NATO and MIL specifications,

in addition to AOP 12 requirements, and are capable of being loaded with TNT, Tritonal, Compound B, or PBXN-109 compositions.

The Mac Jee Group is the largest manufacturer of MK family aerial munitions, with products developed according to all international standards (NATO/MIL) and with stringent quality control.



ANTI-BUNKER BOMBS - BLU-109

With high penetration and impact power, this munition is recommended for use against reinforced structures and can be carried by all NATO-standard certified aircraft, respecting the respective weight limits. The BLU-109 is manufactured entirely in Brazil by Mac Jee, contributing to national sovereignty; the Mac Jee Group is the largest national manufacturer of aerial munitions, including anti-bunker munitions like the BLU-109.



TRAINING BOMB - BDU-33 AND 33AT

Practice bombs intended for air-to-surface bombing training operations. Configured with a smoke-generating device to signal the point of impact, they provide immediate visual indication for assessing aiming and firing procedures, allowing for safe and realistic training.

Available in BDU-33 (Mac Jee) and 33AT (Grupo Índios) models.



modirum

GESPI

155 MM ARTILLERY AMMUNITION

Emgepron produces high-performance medium and large-caliber ammunition for Naval, Amphibious, and Land Forces. The munitions are certified under ISO 9001 and 14001, feature advanced technology, and offer complete batch traceability. The ammunition is rigorously tested at a firing range in Rio de Janeiro, where high reliability, precision, and performance are verified. The operational effectiveness of the munitions is recognized and validated by the demonstrated satisfaction of its deployment by various Armed Forces worldwide.

The 155 mm artillery ammunition from Imbel offers high performance and reliability, being 100% domestically produced, which ensures strategic autonomy and security. Highly versatile, it can be utilized for attacks on surface targets, indirect fire support, neutralization of fortifications, and saturation operations. It is compatible with both towed and self-propelled howitzers. Local manufacturing provides significant economic advantages, including reduced logistical costs, price stability, and the capacity to

promptly meet national and international demand. This product combines operational efficiency, consistent availability, and continuous support, which enhances decision-making power and competitiveness in the global defense market.

The 155 mm artillery ammunition from CSD features a high degree of compatibility with standard NATO artillery systems, making it an exceptional option for both training and immediate combat use.

With an extensive line of munitions, the Mac Jee Group manufactures certified and qualified 155 mm artillery ammunition, developed in accordance with all international standards (NATO/MIL), and adhering to stringent quality control.

The M107, manufactured by Modirum I Gespi, is a versatile and reliable 155 mm high-explosive artillery projectile, suitable for various howitzers, and effective against infantry, vehicles, and fortifications. Specifications: Model: 155 mm M107 — Caliber 155 mm; Weight ~95 lb (43.2 kg); Length ~23.9 in (607 mm); Range up to ~18.1 km.



MORTAR AMMUNITION IN 60, 81, AND 120 MM CALIBERS

The HE (High-Explosive) mortar ammunition is available in 60 mm, 81 mm, and 120 mm calibers. It is fully compatible with standard NATO mortars and is designed for high operational readiness, making it suitable for both training and combat deployment. The product features low operational cost and short stock replenishment time, in addition to safety characteristics that ensure ease of handling.



NAVAL AND ARTILLERY AMMUNITION - 105 MM, 40MM L/60, 40 MM L/70, AND 76 MM L/62



Ammunition in 40 mm L/60, 40 mm L/70, 57 mm L/70, 76 mm L/62, and 105 mm calibers, in addition to casings, cartridges, fuzes, and demolition bags, make up the EMGEPRON portfolio. The company also offers specialized loading services for projectiles, rocket warheads, mines, bombs, and torpedoes. By providing robust, safe, and versatile solutions, EMGEPRON is established as a benchmark in quality, innovation, and reliability, supplying strategic products and services to clients in Brazil and abroad.



NITROCELOULOSE

Military-grade nitrocellulose is a strategic industrial input for the manufacture of ammunition and propellants. Produced by IMBEL under rigorous quality controls and industrial standards, it offers consistent ballistic characteristics and direct integration into propellant production lines. Local manufacturing reduces logistical complexity and unit cost, guaranteeing reliable delivery times and sustained availability. The product is supplied with full traceability, technical support, and documentation packages to support acquisition, qualification, and life cycle management. All exports are carried out in

strict compliance with applicable national and international export control regimes, including end-user certification and contractual safeguards.

Globally, Nitro Química is among the largest manufacturers of the input. It produces to the specifications MIL-DTL-244C and Grade C Type I, with a nitrogen content of 13.15% $\pm$ 0.05%, resulting from the nitration reaction of cellulose. Suitable for single, double, or triple base propellants, it exhibits thermal stability, low insolubility in acetone, and high traceability. It is packaged in certified drums for export and stored under controlled conditions according to NFPA 495 and COLOG.



EXPLOSIVE - RDX AND TNT

Strategic inputs produced in Brazil with high quality standard, traceability, and conformity, guaranteeing energetic performance, ballistic stability, and reliability in supply and, thus, strengthening national autonomy in the sector. IMBEL is the sole producer of TNT and RDX in Latin America, with rigorous quality control and specialized technical support.



EXPLOSIVE - HMX

A high-performance energetic compound, widely recognized for its stability, purity, and high yield. Produced by the Mac Jee Group, HMX is employed in applications that demand high energetic density and reliability, being an essential input for advanced defense systems and technologies.





MISSILE AND ROCKET LAUNCH PLATFORM IN REMOTE AREAS

A platform specially designed for the launch of missiles and rockets in remote areas, with easily adjustable installation and remote activation. Its structure is robust and resistant, with variable inclination to accommodate different employment profiles, and designed for operation in harsh environments, also guaranteeing rapid evasion capability after launch. Developed under the ITAR-Free design philosophy, it offers logistical flexibility and technological independence for field operations.



70 MM SURFACE-TO-SURFACE ROCKET SYSTEM - SKYFIRE

System designed for towed employment or mounting on light vehicles, it is suitable for special forces and light artillery units. With the capability to fire a salvo of 36 70 mm rockets in 12 seconds and reach ranges of up to 12 km, it offers high mobility, rapid deployment, and saturation capability in support of tactical operations.





REMOTELY CONTROLLED TURRET - UT30BR

The UT30BR is equipped with a gyro-stabilized fire control system, with the elevation and azimuth movements controlled electrically. Featuring biaxial stabilization day/thermal electro-optical sights, it has a laser rangefinder (LRF) and a ballistic computer. The UT30BR's main armament is a 30 mm Bushmaster MK44 cannon. The secondary weapon is a 7.62 mm coaxial machine gun.

Remotely controlled, the unmanned turret has reduced weight and was developed with biaxial gyro-stabilization to be mounted on the exterior of the vehicle, above its roof. The UT30BR is coupled without reducing the vehicle's internal space.



ARES®



SISTEMAS DE ARMAS PARA BLINDADOS - REMAX E REMAN

The REMAX, a gyro-stabilized weapon system for 12.7 mm and 7.62 mm machine guns, is remotely controlled by an operator located inside an armored vehicle, including wheeled vehicles—light (4×4), medium (6×6), or heavy (8×8)—as well as tracked vehicles (M113) and main battle tanks.

Designed for integration into tactical platforms, the REMAX offers secure remote control and engagement precision from inside the vehicle, preserving crew protection in demanding operational scenarios.

The REMAN is a manually operated armored weapon system for different types of machine guns. Featuring a low profile and modular structure, it was designed for installation on light and medium armored vehicles (wheeled or tracked), is capable of operating under extreme environmental conditions, and is compatible with an optional electric mode of operation. It is the first 100% Brazilian manual station.



ARES®





70 MM AIR-TO-SURFACE ROCKET SYSTEM - SKYFIRE

A state-of-the-art system that combines high-energy motors and multiple warhead options, designed for integration into launchers equipped with weapon control systems and compatible with most fixed-wing aircraft and helicopters; the solution offers operational versatility and ease of integration, allowing deployment across a wide range of platforms and mission profiles.



NON-LETHAL VEHICULAR MULTIPLE LAUNCHER - STINGER® (LMV-637)

Designed for vehicle-mounted operation and the use of standard non-lethal ammunition, the system can be installed on various vehicles, offers 360° rotation, and is capable of firing up to 15 rounds in sequence, operating at medium and long range. The system utilizes electronic actuation via wireless remote control and features an internal battery that allows for autonomous operation, independent of the vehicle's power status. Compatible with standard 37 mm to 40 mm ammunition, it includes individual, sequential, and full (continuous) firing modes, in addition to elevation and azimuth movements, and is equipped with an integrated wide-angle camera for surveillance and target segmentation.



REMOTELY CONTROLLED WEAPON STATION FOR MACHINE GUNS - ABAPORAN

The ABAPORAN is an advanced Remote Controlled Weapon Station (RCWS) for 7.62 mm or 5.56 mm machine guns, comprised of two modules: the Combat Module, featuring gyro-stabilization and day, night, and thermal sensors; and the Command Module, a customizable Human-Machine Interface (HMI) for weapon operation and adaptation to mission requirements. When necessary, the core software is accompanied by a Software Development Kit (SDK) for integration. Optimized for military vessels, the ABAPORAN also offers variants and adaptations for light armored ground vehicles and for helicopter-mounted deployment.





ASSAULT RIFLE - IA2 5.56MM

The IMBEL IA2 5.56mm assault rifle constitutes a strategic solution for forces undergoing modernization, combining national technology with full compliance to NATO standards. Designed to deliver exceptional robustness, precision, and ergonomics, the rifle is suitable for both conventional and special operations. Its technical specifications include integrated accessory rails, a rate of fire up to 890 rounds per minute (rpm), and an effective range of 300 meters (m). Furthermore, local production minimizes logistical costs, ensures specialized technical support, and guarantees continuous availability. These factors provide the IA2 with operational efficiency, economic predictability, and long-term sustainability.



SUBMACHINE GUN - RPC

The RPC 9x19mm submachine gun features a semi/full selective-fire mechanism utilizing a delayed blowback system. It offers two threaded barrel options—203mm (8") and 115mm (4")—both designed to accept suppressors, and is fed by a 32-round capacity magazine. The weapon includes a three-position retractable stock, a Picatinny rail, an M-LOK handguard interface, an ergonomic pistol grip, and fully ambidextrous controls, ensuring intuitive operation for both right- and left-handed users. Constructed from anodized aluminum alloy with a black Cerakote finish, the RPC allows for rapid disassembly of the barrel assembly. Compact and robust, the RPC guarantees precision and control.





TACTICAL RIFLES - FE-115FGP AND FE-160F

The FE-115FGP and FE-160F tactical rifles are high-performance, full-auto firearms, both chambered in 5.56x45mm (NATO). Both models feature ambidextrous controls, with upper and lower receivers forged from 7075-T6 aluminum and finished with MIL-SPEC III anodization. They utilize a cold-hammer-forged, nitrided barrel with six grooves and a 1:7 twist rate. The rifles are equipped with Cerakote-finished flip-up sights, a hard chrome trigger, a STANAG muzzle device, and a translucent 30-round magazine.

The primary distinctions between the models lie in their operating system, barrel length, weight, and overall dimensions. The FE-115FGP, weighing approximately 3.1 kg, operates via a gas piston system. It features an 11.5-inch (292 mm) barrel, an M-LOK® free-floating handguard, and an AISI 9310 steel bolt carrier group, with a total length ranging from 720 to 800 mm. Conversely, the FE-160F, weighing 3.4 kg, utilizes a direct gas impingement operating system and has a longer 16-inch (406 mm) barrel, resulting in a total length of 871–951 mm.



TACTICAL SUBMACHINE GUNS - FE-905SM AND FE-908SM



The FE-905SM and FE-908SM tactical submachine guns are full-auto weapons chambered in 9x19mm (NATO). They operate via a straight blowback system and utilize 33-round magazines compatible with Glock® pistols. Both models feature fully ambidextrous controls, with upper and lower receivers forged from 7075-T6 aluminum, a cold-hammer-forged nitrided barrel (1:10 twist rate), an octagonal M-LOK® free-floating handguard, Cerakote-finished flip-up sights, and an SAE 4140 steel bolt carrier group. The standard finish is MIL-SPEC III anodized aluminum, with an optional Cerakote finish available for the FE-905SM model.

The primary distinctions between the two models are the barrel length, muzzle equipment, and overall weight and dimensions. The FE-905SM features a 5.5-inch (140 mm) barrel, weighs approximately 2.9 kg, and has a total length of 549–629 mm, which varies based on the stock's position. Its muzzle device conforms to STANAG specifications. The FE-908SM has an 8.5-inch (215 mm) barrel, weighs approximately 3.1 kg, and has a total length of 625–705 mm. This model includes a false suppressor compatible with the STANAG standard.

RIFLE - T4 5.56 NATO

The T4 5.56 NATO rifle is a gas-operated (direct impingement) firearm featuring a 368.3 mm (14.5") barrel and a 30-round capacity. It weighs 2.900 kg (unloaded, without magazine). This rifle utilizes a rotating bolt and a floating firing pin, with the bolt designed to lock open after the last round is fired. It is equipped with an integral Picatinny rail on the receiver and a retractable stock for ergonomic adaptation. Optional accessories for the T4 rifle include a cleaning kit and a three-point sling.





COLLECTIVE TRAINING WEAPON

The replica collective weapon systems provide enhanced operational realism by simulating muzzle flash and high-intensity sound—up to 140 dB—without relying on pyrotechnic material. The system synchronizes rate of fire and recoil to the actual firing cycle, identifies individual shooters via ID, and precisely records weapon type, caliber, and shot count. This functionality enables highly realistic training exercises while eliminating the expenditure of live ammunition. The weapons are fully compatible with smart targets capable of detecting shots at a range of up to 1.2 km. These targets process hit data and the shooter's identification in real time, subsequently transmitting performance reports to the Command and Control (C2) center within a 5 km radius. This comprehensive solution supports complex exercises against both static and mobile targets, facilitating training in both field environments and unit installations.



PISTOLS - TX9 AND TS9

The TX9 pistol, chambered in 9mm, features a Striker Fire action, a capacity of 17+1 rounds (or 19+1 with an extended magazine), a 114 mm (4.5") barrel, and a weight of 708 g. The finish is carbon steel with Tenox treatment. Designed for high performance and enhanced ergonomics, it features a T.O.R.O. (Tactical Optics Ready) system, a Picatinny rail, an ambidextrous slide stop, a reversible magazine release button, and four interchangeable backstraps, ensuring operator adaptability and tactical versatility.

The TS9 Graphene Black pistol, also in 9mm caliber with a Striker Fire action, has a capacity of 17+1 rounds (20+1 optional), a 102 mm (4") barrel, and a weight of 825 g. It is finished with Cerakote® Graphene Black over carbon steel. Equipped with adjustable sights (with tritium option), a Picatinny rail, ambidextrous controls, and graphene-reinforced components, the TS9 combines robustness and precision with a premium finish, making it ideal for professional and institutional use.





SMALL ARMS AND RIFLE AMMUNITION

A world leader in small arms ammunition and a premier supplier to NATO, CBC is a benchmark in the small-caliber ammunition segment. Its products are utilized globally, contributing to the protection and security of millions of people.

Among the company's solutions for military clients, the following are prominent:

9×19 mm Ammunition (Ball, 115 gr / 124 gr), a cartridge qualified by NATO, intended for training and service use in pistols and submachine guns, ensuring reliable performance and ballistic consistency.

5.56×45 mm Ammunition, manufactured in accordance with NATO standards, suitable for weapons with rifling between 1:7 and 1:9. Available in Ball, Tracer,

Blank, IR Tracer, and SAT variants, it is the standard NATO cartridge for training and service.

7.62×51 mm Ammunition, manufactured in accordance with NATO standards, widely used in rifles and machine guns. Available in Ball, Tracer, Blank, IR Tracer, and Armor-Piercing variants, it maintains full compatibility with 7.62×51 mm platforms.

12.7×99 mm Ammunition, qualified by NATO, suitable for all weapons in this caliber. It offers Ball, Tracer, Armor-Piercing, Armor-Piercing Incendiary, and Armor-Piercing Incendiary Tracer variants, in addition to special technologies such as Reduced Range ammunition (Reduced Range).



2.75" ROCKET MOTOR

The 2.75" rocket motors are available in MK-66 and MK-40 models and can be supplied with or without a warhead. They feature wrap-around fins or folding fins and offer antipersonnel, anti-vehicle, and training warhead options. The nominal diameter is 2.75 inches (70 mm).

Applications: compatible with standard 2.75" rocket motor launchers, offering operational versatility in tactical and training missions.



WARHEAD FOR SBAT 70 AND FPV THUNDER ROCKETS (MK4/40 AND MK66)

Manufactured by CINADRA, these warheads are produced in compliance with international standards (MIL-SPEC). They can be solid for training purposes (TP) or filled with explosives such as TNT or RDX in the High Explosive (HE), Anti-Tank (AC), and Anti-Personnel (AP) versions. All units are fitted internally with impact fuzes, in both the training configurations and the HE/AC/AP versions, ensuring operational compatibility and reliability with applicable launch systems and tactical requirements.



BOOSTERS

The M125C1 model is designed for use with M557 or similar fuzes and is manufactured in accordance with applicable international standards to ensure operational safety and the flawless functioning of the detonation system.





PROPULSION BOOSTER - 2 kN, 4 kN, 6 kN, 8 kN, AND 16 kN SERIES

The EOS series Propulsion Boosters are developed by Edge of Space for applications that demand high thrust, reliability, and precision. Available in 2 kN, 4 kN, 6 kN, 8 kN, and 16 kN versions, these solid-propellant rocket motors are designed for launch systems, small and medium-range missiles, sounding rockets, and RATO units. EOS conducts the entire development cycle, from propellant formulation to validation on test benches, ensuring performance and repeatability. One of the major distinguishing features of the series is that it is 100% domestic, ITAR-free, and clear of components controlled by international embargoes, which eliminates import barriers and expands accessibility for partner defense programs.

FUZES

The standard mechanical and electronic fuzes in the CSD product line include the M904/BR and M905/BR models (mechanical), in addition to the NEF-100 and TEF-200 (electronic). Still in the electronic category, the company supplies the FMU-152A/B model, an advanced fuze system for use in general-purpose and penetrating unitary warheads. The AB400 version, also electronic, features a user-selectable safety time, varying from 4 to 18 seconds, in 2-second intervals.

In the impact and proximity fuze line, Modirum I Gespi manufactures the PDM-557 and PDM-572 models. The M904 and M905 fuzes are also produced by the Mac Jee Group, which also manufactures electronic versions of these systems. Furthermore, the M904 and M905 models are produced by Cinadra for the MK series bombs (82, 83, and 84).



MODULAR MULTICALIBER SUPPRESSOR 5.56 X 45MM/.223 REM

This device was designed to reduce the sound signature and allow for adaptable operation across compatible platforms. Manufactured from titanium with a PVD surface coating, it is available in black, tungsten, and desert sand colors. It offers noise reduction of up to 30 dB and is compatible with the 5.56 x 45 mm and .223 Rem calibers.



COMPOSITE SOLID PROPELLANTS

Developed entirely within the country and certified as exempt from ITAR and international embargo restrictions. Engineered to deliver high energy efficiency, burn stability, and reliability under extreme conditions, these propellants can be manufactured in diverse geometries and formulations, allowing for the precise adjustment of burn rate and thrust according to the application—ranging from rocket motors and missiles to sounding rockets and RATO units. All batches undergo complete validation on test benches, utilizing process controls that ensure traceability, repeatability, and compliance with operational and safety requirements.



METALLIC LINKS

Metallic links are produced from high-strength steel, with anti-corrosion treatment and a phosphatized or chrome finish. Designed for use in ammunition feeding systems for automatic and semi-automatic weapons, they allow for the secure and efficient connection between the rounds. Compatible with various calibers.



NOZZLE ASSEMBLY FOR SBAT 70 AND FPV THUNDER ROCKETS (MK4/40 AND MK66)

The nozzle assemblies with integrated stabilizing fins for the MK66 (FPV THUNDER) are supplied with a graphite insert and sealing gasket, ready for assembly, ensuring thermal performance and sealing integrity upon coupling to the motor. Nozzle assemblies are also available for the MK4/40 (SBAT70), manufactured with crimped nozzles, stabilizing fins, and sealing gaskets dimensioned to ensure structural integrity and aerodynamic efficiency during operation.





SHORT-RANGE CONTROLLED -IMPACT LESS-LETHAL PISTOL - DEFENSOR® FR-112

The Defensor® FR-112 pistol, in CONDOR .236R caliber, was developed for crowd control and crime suppression as an alternative to the use of conventional weapons. It exclusively fires CONDOR .236R caliber less-lethal, controlled-impact ammunition, designed for a deterrent effect, capable of causing bruising and intense pain.

Regarding physical and functional characteristics, the Defensor® FR-112 features a CONDOR .236R caliber, a smooth-bore carbon steel barrel, a carbon steel slide with a black finish, and a frame made of black injected polymer. Its dimensions are: total length of 158.5 ± 1 mm, width of 32.5 ± 1 mm, and height (without magazine) of 113.4 ± 1 mm; total weight (without magazine): 600 ± 10 g. The sight is a three-dot system, with elevation and windage adjustment, and the standard packaging contains one unit per hard case.

It features comprehensive safety devices, including a firing pin safety, a trigger safety, a physical loaded chamber indicator, an ammunition viewing window, a cocked firing pin indicator, and a lateral safety hole in the barrel.



CONDOR
NON-LETHAL TECHNOLOGIES



LESS-LETHAL PISTOL - IMPACT

The IMPACT system is an electronic semi-automatic launcher developed for tactical deployment, intended to reduce offensive potential and enable the progressive use of force. It utilizes electro-pyrotechnic actuation and is compatible with various cartridges: rubber kinetic projectiles, markers (dye), non-lethal chemical agents (PAVA and CS), signaling, and training cartridges.

The containment effect results from the sound of the shot, the explosive flash, and the controlled impact. It operates with a long-life, maintenance-free battery, designed to eliminate the need for frequent recharging.

The device is patented by Edge of Space Indústria, the developer and owner of the intellectual property rights for the IMPACT system.





CONDOR ELECTRICAL INCAPACITATION DEVICES - SPARK® Z2.0 AND SPARK® DUO

The SPARK® Z2.0 line of electrical incapacitation devices offers a rapid and effective response in confrontation situations. They utilize high-intensity electrical pulses that act on the neuromuscular system, causing involuntary contractions and temporary incapacitation. The safe ejection mechanism allows users to neutralize threats at a distance, thereby minimizing risk and preserving life.

The SPARK® DUO, with the capacity for two consecutive firings without requiring cartridge reloading, provides greater tactical flexibility and operational safety. This system meets the highest standards for the responsible use of non-lethal force, protecting public order and society.



CONDOR
NON-LETHAL TECHNOLOGIES



NON-LETHAL EXPLOSIVE DIVERSIONARY GRENADES - OUTDOOR ECOBODY®

ECOBODY® technology represents a milestone in sustainable innovation: it is the first diversionary grenade with a fully biodegradable casing. After detonation, the casing fragments into small natural polymer particles, drastically reducing the environmental impact without compromising the established stunning performance of traditional Condor grenades.

The dual-stage system ejects the initiator before the main charge detonation, allowing for greater control of the effect and reducing the risk of premature activation. The grenades are available in GL-304/ECO (Diversionary), GL-305/ECO (Tear Gas), GL-307/ECO (Light and Sound), and GL-308/ECO (Pepper) models, offering diverse solutions for different tactical requirements.



CONDOR
NON-LETHAL TECHNOLOGIES



LESS-LETHAL DEVICE - EXPLOSIVE GRENADES

The explosive grenade is a less-lethal device intended to temporarily disorient the senses of target individuals by producing a flash-bang effect, releasing innocuous particles, and emitting tear gas smoke.



GRUPO INDIOS





TEAR GAS AMMUNITION

37/38 mm, 40 mm, and 40 x 46 mm cartridges are available for medium and long range. Single-action and multi-action tear gas grenades are designated for dispersal in demonstrations, riots, and other crowd containment scenarios.



GRUPO
INDIOS



PSI PRÓ DISPENSER

The PSI Pró Directed Liquid Stream products (70 g, 350 g, and 350 g Green Marker) are genuinely non-lethal dispensers designed for incapacitation via immediate temporary blindness. These plant-extract based products have a 5-meter range, provide precise and selective action, and are intended for multi-environment use.

The PSI Pró Fog, in 70 g cone and 450 g Maxxi formats, is a genuinely non-lethal dispenser intended for crowd control, causing respiratory discomfort including intense coughing and nausea. Also plant-extract based, it has a 3.5-meter range, ensuring an immediate and safe effect in temporary incapacitation, without residual ground effect.

 **POLY DEFENSOR**
TECNOLOGIA NÃO LETAL



PYROTECHNIC SIGNALING DEVICES

These consist of illuminating and smoke-generating products—including illuminating rockets with parachutes, illuminating flares, and floating smoke signals—utilized to signal situations of danger, distress, or rescue. Constructed to withstand marine environments, harsh weather, and immersion, they are completely sealed.



GRUPO
INDIOS





SENSORS, ELECTRONIC SYSTEMS, AND COMMAND AND CONTROL

Sensors and Surveillance
Onboard and Platform Systems
Command, Control, and Management
Communication and Transmission
Software and Applications
Data Processing and Linking



RADARS - PRIMARY STAR-NG AND LP23SST SIGMA, SECONDARY RSM-NG



The STAR-NG is a new-generation, S-band radar, designed for terminal area surveillance. With a range of up to 100 NM, it offers 3D precision and frequency agility. The RSM-NG is a latest-generation monopulse radar, integrated with the primary radar, with a range of up to 256 NM, compatible with modes 1, 2, 3/A, C, S (with ADS-B) and IFF mode 4. The LP23SST SIGMA provides long-range 3D surveillance, reaching up to 250 NM, capable of tracking multiple targets—including drones—with high precision and extensive situational awareness. All systems feature a modular architecture and advanced cybersecurity resources, ensuring ease of maintenance and protection against digital threats.

AESA RADAR - ATALAIA

The ATALAIA is a compact Active Electronically Scanned Array (AESA) ground radar, developed for multi-domain surveillance. It utilizes hybrid beamforming technology, with 45° coverage, and can be integrated with up to eight units to ensure complete perimeter coverage. The active ATALAIA system operates in monopulse mode for target detection, allowing it to determine the direction of approach for troops, vehicles, drones, and aircraft, with variable range based on target size.



**ADVANCED
TECHNOLOGIES
SECURITY & DEFENSE**





RADARS - SABER M60 AND SABER M200 VIGILANTE

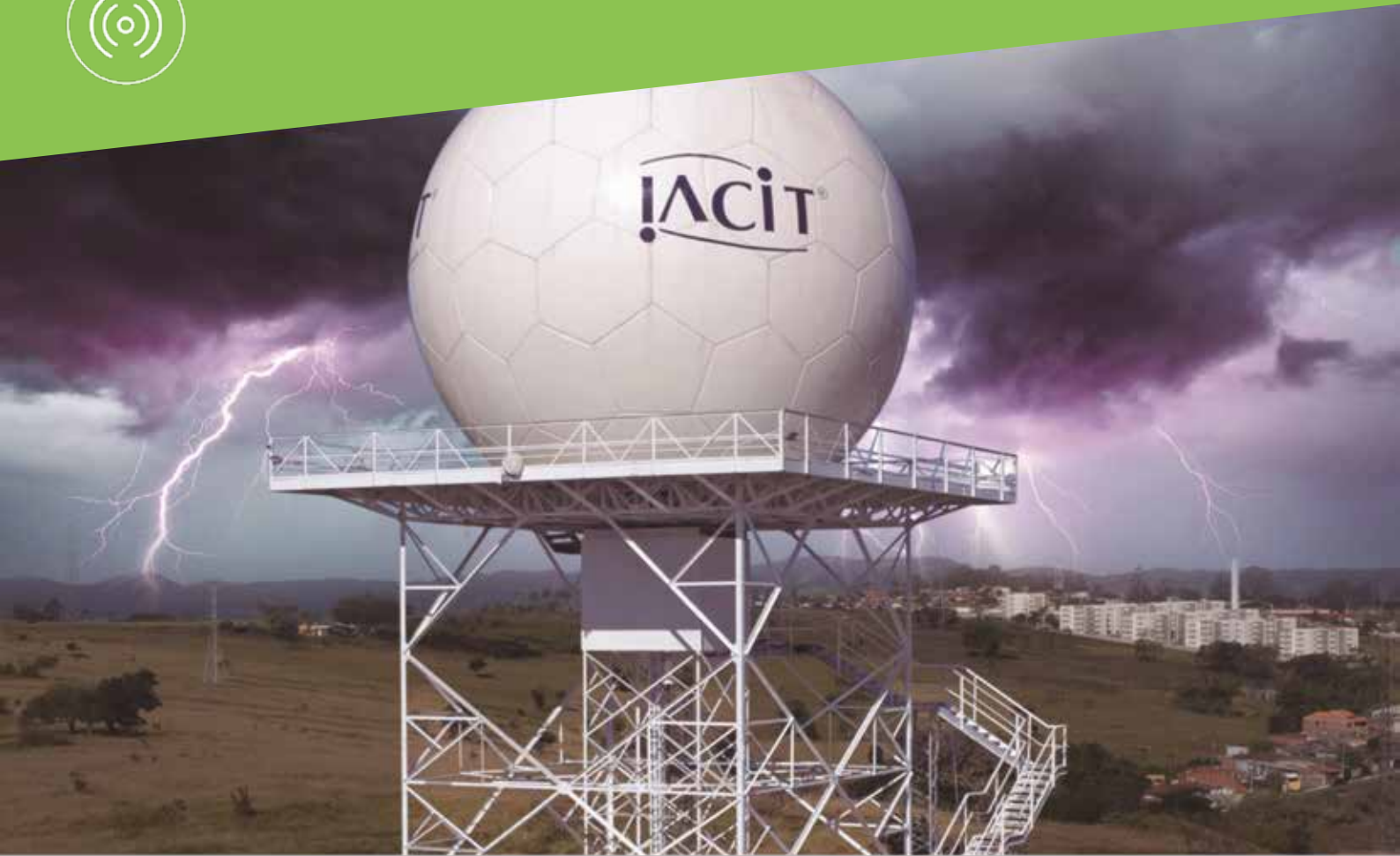
The M60 Radar is an L-band, 3D primary and secondary sensor, intended for low-altitude, short-range surveillance. Designed for fixed and transportable positions, it features modular architecture, low weight, reduced power consumption, and high mobility. As Intellectual Property of the Brazilian Armed Forces, it can be integrated into Aerospace and Anti-Aircraft Defense systems.

The M200 Radar is a mobile 3D, S-band, primary and secondary sensor, based on AESA technology and software-defined architecture. It offers

medium-range air surveillance and early warning, with four independent panels that ensure 360° coverage and a range of up to 108 nautical miles. It stands out for its high mobility, rapid deployment—less than 15 minutes—and 70-hour autonomy, with an integrated generator and fuel tank in a 15-foot ISO shelter, and can be operated locally or remotely.

Both represent national solutions of excellence for strengthening the country's Defense and technological sovereignty.





RADARS - DOPPLER S-BAND WEATHER RADAR (RMT 0200) AND OVER-THE-HORIZON RADAR (OTH 0100)

The RMT 0200 S-band Radar was developed for the detection and prediction of severe weather phenomena over long distances (nowcasting). It operates in dual polarization and utilizes 100% solid-state amplifier technology, offering greater precision in particle measurement and hydro-meteor classification. It is compact and generates a wide range of products to support decision-making.

The OTH 0100 Radar is an Over-the-Horizon radar, which utilizes HF surface wave propagation to monitor vessels up to 200 Nautical Miles (NM) from the coast, overcoming the line-of-sight limitation of conventional radars and ensuring persistent and reliable coverage.

Complementary to this, VIMTRAH is a C4I support system that performs data fusion between OTH radars and collaborative sources, providing detailed and interactive situational awareness for the operator.



SIATT



ARKHE INTEGRATED SURVEILLANCE SYSTEM

The Arkhe Integrated Surveillance system, from Atech, establishes the framework for the planning, execution, and evaluation of air, ground, and naval surveillance and defense activities. The system integrates with command centers, sensors,

and vectors—such as troops, aircraft, and ships—generating dynamic scenarios in real-time. Its communications module ensures data exchange in various formats, via SATCOM, microwaves, and VHF/UHF radios.

COASTAL SURVEILLANCE UNIT (CSU)

The COASTAL SURVEILLANCE UNIT (CSU) system features national equipment integration carried out by SIATT, including a latest-generation coastal radar—X-band and all-in-one architecture—high-resolution optical and infrared cameras with stabilized zoom, in addition to identification systems (AIS for vessels and ADS-B for aircraft). Communication is reinforced by microwave links, coastal VHF/DSC transceivers, and a LoRa network, ensuring reliable and continuous performance in critical missions.



 **atech**
GRUPO EMBRAER





INTEGRATED AIR TRAFFIC MANAGEMENT SYSTEM - SIGMA

Solution for Air Traffic Flow Management (ATFM). Developed by Atech for the Brazilian Air Force (FAB), the system aims to provide air traffic control agencies with the necessary resources to balance flight demand with available operational capacity.

SIGMA ensures greater safety, optimization of flight time, and operational punctuality, through the integration of data from airlines, airports, and control agencies.



ADVANCED SYSTEM FOR THE MANAGEMENT OF AERONAUTICAL INFORMATION AND OPERATIONAL INTEREST REPORTS

A solution developed by Atech for the Brazilian Air Force (FAB), focused on air traffic control and management. Designed to meet growing demand and the highest international standards for communication and safety, the system is compliant with global specifications and incorporates modern Human-Machine Interface standards, multi-sensor surveillance (Radar, ADS-B, ADS-C, and Multilateration), greater data fusion capability, and Arrival Management (AMAN), among other advanced resources.





AIRCRAFT DISPLAY SYSTEM - WIDE AREA DISPLAY (WAD)

High-resolution wide screen system (19 x 8 inches), multicolor, redundant, and multi-functional. It allows interaction via multi-function keys, touchscreen interface, or external devices. It is the primary source for displaying flight and mission information for the F-39 Gripen aircraft, integrating critical data for the aircraft's operation and performance.



HEAD-UP DISPLAY (HUD)

Specially developed for the new-generation cockpit, designed to clearly and accurately present critical piloting, navigation, and aiming information directly in the pilot's field of view. This technology allows all essential information to be viewed without the need to look away from targets or the external environment, providing greater safety and agility in decision-making. With ergonomic design and high definition projection, the system ensures excellent visibility under different lighting conditions, guaranteeing superior operational performance in day and night missions.





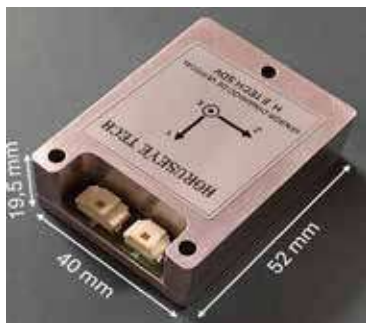
HEAD MOUNTED DISPLAY (HMD) - TARGO™

Advanced helmet-mounted data presentation system that projects navigation, guidance, and aiming information directly onto the lens in front of the pilot's eyes. This technology allows the operator to view, in real-time, symbology and images of real and virtual targets, without the need to look away. Integrated with the aircraft's mission systems, Targo™ significantly expands situational awareness and decision-making capability in highly complex scenarios. Its intuitive and high-precision interface ensures that the pilot has critical information quickly and clearly, optimizing operational performance and increasing safety during all phases of flight.



OPTRONIC SYSTEM FOR ARMORED VEHICLES

Developed by OPTO Space & Defense, currently in use on the modernized EE-9 Cascavel NG vehicle. The system includes day and uncooled thermal cameras, both with continuous optical zoom, in addition to a laser rangefinder. Mounted on a gyro-stabilized platform with free azimuthal movement, the system allows for the detection of targets at long distances, even when the vehicle is moving. It can also be employed — with or without customization — in turrets, extendable masts, or as a complement to radar-based systems, aimed at surveillance and anti-aircraft defense.



DYNAMIC VERTICAL SENSOR (SDV)

Tactical precision sensor intended for guided munitions and short-range artillery missiles. The SDV employs high-precision MEMS inertial sensors, resistant to high accelerations and shocks, and utilizes advanced algorithms to achieve maximum performance in determining the vertical reference, intended for missile control.



AIR-TO-AIR MISSILE INFRARED SENSORS - IRSA (INFRARED SENSOR ASSEMBLY)

Infrared sensor assembly for the short-range, fifth-generation A-Darter air-to-air missile, developed in cooperation between Brazil and South Africa, with superior detection capability. OPTO Space & Defense co-developed and manufactures, among other subsystems, the Infrared Sensor Assembly. The system integrates advanced mechanics, high-sensitivity optics, and miniaturized electronics, assembled in a three-axis gimbal system. The IRSA is responsible for capturing thermal radiation from distant targets across two spectral bands, providing precise data for target detection, tracking, and characterization.



MOBILE MULTI-MISSION TACTICAL UNIT - ASAT

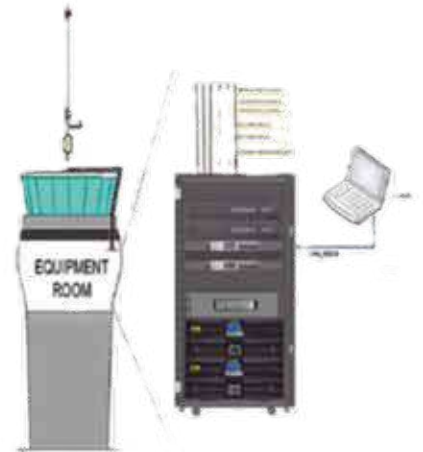
Developed by ALTAVE, in partnership with FINEP, intended for Defense and Security applications. Fully towable and transportable by air or sea, the system allows for rapid deployment in any location, ensuring high autonomy and operational efficiency. Equipped with a 10-meter telescopic mast, capable of supporting up to 60 kg of payload—such as cameras, radars, and counter-drone systems—the unit stands out for its “radar by video” technology, which uses artificial intelligence to detect, track, and analyze targets in real-time. The ASAT is ideal for Intelligence, Command and Control (C²), and Search and Rescue operations, in addition to providing connectivity in remote areas. Its main differential is its logistical and operational flexibility, configuring it as a compact, resilient, and adaptable solution for different tactical scenarios.





AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST EQUIPMENT - ADS-B 280M

A set of ADS-B Ground Station equipment capable of receiving, processing, and displaying information transmitted by ADS-B transponders installed on aircraft or other air and ground targets. The ADS-B/MLAT station is a complete and low-cost solution, based on a high-sensitivity dual-channel receiver and decoder, compatible with modes A/C/S and ADS-B, operating with FPGA technology. The system integrates a high-precision GPS timing receiver, which assigns nanosecond resolution timestamps, enabling high-precision Multilateration (MLAT). This technology offers high surveillance accuracy, a high update rate, and reliable target identification, surpassing conventional systems in efficiency and cost-effectiveness. It can operate autonomously, connected to a local display, or integrated into a central processing server, extending monitoring to traffic not equipped with ADS-B.



HORUSEYE TECH
Engenharia de Sistemas Ltda.



NAVIGATION, GUIDANCE, AND CONTROL SYSTEM FOR MISSILES AND DRONES

A complete and high-precision solution, applicable to drones, tactical, ballistic, and cruise missiles. The product stands out for its robustness, reliability, and modular integration, capable of operating with a proprietary GPS receiver, without altitude and speed restrictions, which expands its autonomy and versatility in different operational scenarios. Developed by Horuseye Tech, the company is responsible for the entire cycle of specification, design, and testing of the system's hardware and software. Advanced Software in the Loop (SIL) and Hardware in the Loop (HIL) testing is performed, ensuring maximum performance, precision, and adherence to the mission requirements for which the system is intended.

SATELLITE ATTITUDE, ORBIT CONTROL AND GUIDANCE SUBSYSTEM - AOCS

Responsible for the determination of positioning and the necessary calculations for the precise maintenance and adjustment of a satellite's attitude and orbit. As satellites remain out of contact with ground crews for a large part of the time, they rely on secure and autonomous AOCS systems to ensure their continuous and safe operation. Therefore, this subsystem is essential to ensure the execution of the satellite's main mission—such as image acquisition, correct pointing for communication with the ground segment, and maintenance of platform parameters, including power generation and thermal stability.



VISIONA
Tecnologia Espacial





TACTICAL INERTIAL NAVIGATION SYSTEM FOR ARTILLERY MISSILES (SNIT) AND INERTIAL NAVIGATORS FOR ROCKETS (GNSS)

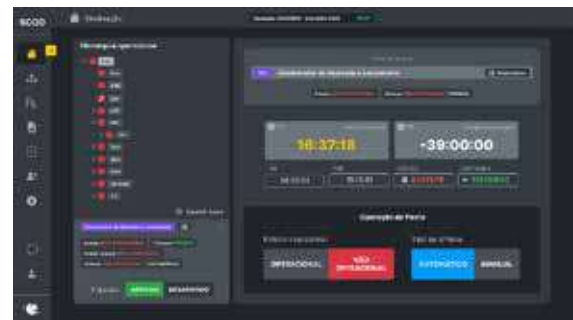
A high-precision national solution, developed for applications in artillery missiles and other tactical deployment vectors. The system utilizes latest-generation MEMS sensors, designed to withstand high accelerations and shocks, combined with advanced navigation algorithms that ensure maximum performance and reliability in severe operational environments.

HORUSEYE TECH
Engenharia de Sistemas Ltda.

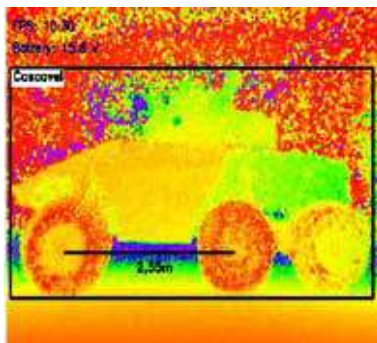


OPERATIONAL CONTROL AND FIRING SYSTEM (SCOD)

A multi-user platform designed to plan, organize, and monitor all phases of rocket launch operations. Used in both Brazilian launch centers, the SCOD guarantees precision, safety, and assertiveness in critical launch process decisions. The system is responsible for issuing the final ignition authorization only after the completion of mandatory steps and the agreement of all decision-making agents involved in the operation, ensuring total compliance and traceability. With modular and adaptable architecture, the SCOD has the potential for expansion and integration into other types of spatial or military missions, allowing real-time control of complex and high-risk operations.



CONCERT
SPACE



AUTOMATIC TARGET RECOGNITION SYSTEM - ATR RAA

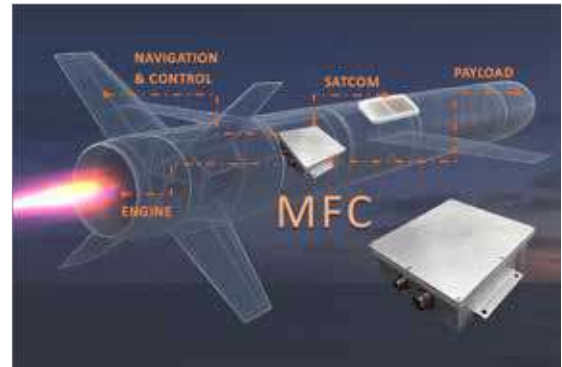
An advanced sensing solution capable of capturing precise three-dimensional models of objects in real-time. Via a ToF camera, the system measures the distance between the sensor and the target, generating a high-fidelity three-dimensional (3D) image. Local data processing is performed using Artificial Intelligence (AI) techniques, which enable automatic object identification and pattern recognition with a high degree of accuracy and autonomy.





ONBOARD COMPUTER - MFC

An in-flight mission computer, designed for real-time applications and integration with critical onboard systems with high operational reliability. Its modular architecture allows for flexible configuration and adaptation to different platforms and mission requirements. Compatible with SIMULINK, the MFC supports the development and execution of dedicated embedded software, ensuring precision and performance in diverse air operations. With configurable applications for the Aerospace, Defense, Civil Aviation, and Industry sectors, the system follows the ITAR-Free philosophy.



MONITORING SYSTEM - ALTAVE VANGUARDA PLUS

An essential monitoring system for Defense and Security, developed by ALTAVE, a company recognized as a Strategic Defense Company (EED). It is the only system in Brazil that integrates a patented light tactical aerostat, equipped with Artificial Intelligence (AI) and HARPIA management software. Its technology provides continuous perimeter surveillance (24/7), with detection of ground and air incursions, including drones, through high-precision optical and infrared sensors. Extremely mobile and agile, the system can be installed on vessels or vehicles and become operational in up to two days, requiring only two operators. The aerostat's tactical envelope offers high structural resistance, with proven protection against weapons fire, allowing for a controlled descent in case of impact.



RADMON AND CELLMON

RADMON is a system for monitoring and analyzing radio signals, capable of receiving, decoding, decrypting, recording, and classifying communications on up to 16 channels simultaneously. It has a compact and lightweight design that allows for mobile or fixed operations, with antenna distribution to form a long-range monitoring network. It performs automatic signal detection and classification, enabling the interception and identification of clandestine transmissions, and can operate in autonomous mode, integrating with a direction-finding module for precise location of emitting sources.

CELLMON is aimed at monitoring cellular networks, offering security and defense agencies an effective tool for surveillance and control of mobile communications. Developed for field use, the system detects cell phones, obtains IMEI/IMSI, monitors signal strength (dBm), and has functions to block calls, SMS, and signals.





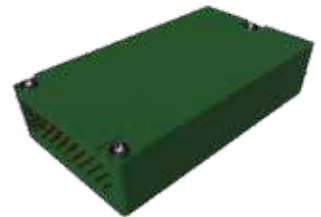
TRACKING AND TRAJECTORY SYSTEM

An advanced solution for the real-time tracking, detection, evaluation, and qualification of missiles, rockets, and small projectiles, available in fixed and transportable versions. The basic system configuration includes a C-band radar, an optical tracking system, a Doppler radar, and a control and operation center, ensuring high precision in target tracking. The system also allows for the integration of additional sensors, expanding its capability for different testing and validation scenarios.

With a tracking range of up to 4,096 km and the capacity to track objects at speeds of up to 72,000 km/h, the system provides detailed position, speed data, and images throughout the trajectory of the object under test. Communication between sensors and the control center is performed via dedicated radio link, offering flexibility and operational security. Ideal for development campaigns, acceptance testing, and qualification, the system is widely used in Launch Centers and Test Ranges, contributing to technological advancement and national autonomy in tracking and ballistic evaluation.

AUTOPILOT FOR THE CONTROL OF VARIOUS VEHICLES, AIRCRAFT, SUBMARINES, AND TRACKERS - STRIX

An advanced autopilot that integrates dedicated hardware and firmware for the control of multiple platforms, including aircraft, multi-rotors, rovers, submarines, and trackers. Developed for critical applications, the system ensures precision, stability, and operational autonomy in diverse environments and mission conditions. Its Ground Control Station (GCS) incorporates a semi-physical simulation, allowing dynamic simulation, parameter adjustment, and real-time operation, accelerating the development and validation of missions.



CAMERAS FOR SATELLITES

The VCUB1 satellite, a project led by Visiona, recorded its first images using the OPTO 3UCAM camera, developed by Opto Space & Defense, a company part of the Akaer Group. This milestone solidifies the Group's commitment to technological development and the expansion of national capability in the aerospace and defense segment. The OPTO 3UCAM, the first reflective camera designed and manufactured entirely in Brazil, delivers high precision and superior performance in obtaining high-resolution images (3.5m GSD) of the Earth's surface, representing a significant advance for the country's technological and operational autonomy in the space domain.



THERMAL CAMERAS FOR ARMORED VEHICLES

The system was developed to provide complete situational awareness around combat vehicles, ensuring superior performance in any operational condition. It uses multi-spectral thermal imaging cameras that guarantee the detection and identification of targets even through dense fog, smoke, or low light, allowing for continuous and effective operations in all environments. It is composed of dedicated modules for the crew, including the Commander's Optronic System, with day camera with optical zoom and autofocus, thermal camera with motorized focus, and laser rangefinder, all integrated into a stabilized gyroscopic platform with 360° scanning. Complementarily, the Gunner's Optronic System offers equivalent sensors, ensuring high precision in target acquisition and engagement.



opto
SPACE & DEFENSE



INERTIAL NAVIGATION SYSTEMS - PINA-FD AND PINA-M

High-performance inertial navigation systems, offering long-lasting precision, robustness, and compact design, being lightweight and ITAR-free. With a Technology Readiness Level (TRL)-9, it is suitable for use in applications in the aerospace and defense sectors. The PINA-M is focused on navigation and motion sensing, utilizing advanced sensor fusion algorithms and high-performance components to ensure precision and stability. The PINA-FD is based on Fiber Optic Gyroscopes (FOGs) and Quartz Pendulous Accelerometers (QPAs). Designed for reliable operation in demanding environments, combining global accessibility, versatile integration, and proven maturity, consolidating it as an ideal navigation solution for various applications.



CLC
Castro Leite Consultoria



XSIS 222A CAMERA

Military-grade gyro-stabilized camera designed for ISTAR (Intelligence, Surveillance, Target Acquisition and Reconnaissance) missions in manned and remotely piloted aircraft. Developed and manufactured by Xmobots, the system transmits images in real-time with extremely high stability and precision. The only national EO/IR imager, the XSIS 222A features stabilization on three mechanical and three digital axes, aerospace material structure, a restricted-use MWIR camera, and laser target designation, characteristics that ensure superior performance in complex operational environments.

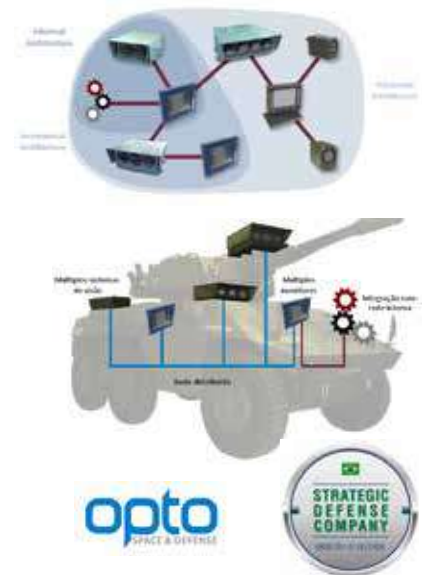
xmobots | defense





SITUATIONAL AWARENESS SYSTEM

The modules developed by Opto Space and Defense are designed to provide total situational awareness in military and tactical operations, even under adverse visibility conditions. Based on a modular architecture, the system integrates long-range cameras, infrared thermal sensors, and lasers, allowing for rapid, flexible, and adaptable configuration to different operational scenarios. This combination ensures real-time target detection, identification, and tracking, significantly expanding observation and decision-making capabilities.



opto
SPACE & DEFENSE



INERTIAL NAVIGATION SYSTEM (INS)

A system developed by Concert Technologies, guaranteeing high precision in determining rocket speed, attitude, and position, ensuring the ideal trajectory for satellite release into orbit. It utilizes MEMS sensors and GNSS data fusion, following the global trend toward more accessible, efficient, and compact solutions. These sensors may be manufactured in Brazil in the future, strengthening national technological autonomy. The system features tactical precision, a spin capability of up to \$2000^{\circ}/s\$, \$1^{\circ}/s\$ self-alignment, and inertial-GNSS integration, and can also be adapted for various applications, such as drones, satellites, guided bombs, and autonomous vehicles, which expands its strategic value for the country.

CONCERT
SPACE



DAP ATLAS PLATFORM

A latest-generation national geo-referenced solution, designed to produce intelligence information intended for command and control in space operations centers, with applications in Defense and Security. Developed for remote monitoring via satellite in ground and maritime environments, the platform performs the fusion and correlation of optical and SAR satellite images, meteoceanographic data, AIS, and RF signals, providing strategic analysis and solutions. This capability allows for the tracking and detection of non-cooperative vessels (dark ships), as well as the monitoring of land borders and civil and military installations throughout the national territory, operating continuously, day and night, 24 hours a day, seven days a week.

MAVIPE
SISTEMAS ESPACIAIS





MOBILE SIGNAL REPEATER AND SURVEILLANCE TOWER

A versatile and efficient solution to expand voice and data communication coverage in remote or hard-to-reach regions. Designed to operate in challenging environments, it features a structure mounted on a mobile platform, which facilitates its transport and installation. Equipped with a solar power supply system and operational autonomy, the tower guarantees continuous operation even in locations without electrical infrastructure. It is compatible with different carriers and frequency bands, subject to technical viability, and can be adapted for surveillance functions, integrating cameras and data transmission via satellite internet or 5G.

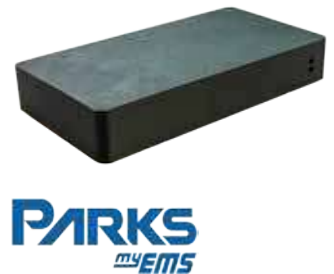


SECURE COMMUNICATION SYSTEM - INVOLATUS

An encryption solution developed to ensure communications across multiple security layers. Designed to encrypt text, voice, and video messages, it guarantees the integrity and confidentiality of information transmitted in sensitive or strategic environments. When integrated with the UNA unified communication system, Involatus expands its protection, also ensuring the secure storage of data, both on servers and on user devices. In this way, it maintains a continuous layer of security over all communications, offering a reliable infrastructure for operations that require a high level of secrecy and information protection.

4G GPS VEHICLE TRACKER - ME0002

A tracker designed to offer precise and reliable real-time vehicle location monitoring. Utilizing communication technology via MQTT protocol over LTE, the equipment ensures continuous data transmission to the cloud server, allowing efficient remote monitoring. The system features internal storage with 16-hour autonomy, ensuring the temporary recording of positions even in communication failure situations with the cloud. Additionally, it has expandable memory via a MicroSD Card, expanding its storage capacity and ensuring complete traceability under any operational condition.



RADIO - MALLET, SOFTWARE-DEFINED RADIO (DEFENSE SDR), AND THE E-LYNX MARC AIRBORNE RADIO

The Mallet radios, consisting of the IMBEL TRC-1193B (manpack, 10W/11.5 km) and TRC-1193V (vehicular, 50W/32 km) transceivers, operate in the VHF band (30–88 MHz), providing secure tactical communications through encryption and frequency hopping. The TRC-1193B model is lightweight and suitable for field use, while the TRC-1193V is designed for vehicle integration, ensuring robustness and extended range.

The Defense SDR, a strategic program of the Ministry of Defense developed by CTE_x, aims to strengthen interoperability among the Armed Forces through Software-Defined Radios (SDRs), such as the Rondon and the E-Lynx MARC. The latter, for airborne and multi-band (VHF/UHF/L) application, allows for the transmission of voice, data, and video, also acting as a mission computer. The SDRs ensure technological independence, interoperability, and waveform portability, making it possible to add new services without the need to replace hardware.





IACIT®



INTEGRATED METEOROLOGY & NOWCASTING FOR DECISION MAKERS (MIND)

An advanced data fusion platform for multiple meteorological sensors, designed to provide a broad and precise understanding of atmospheric conditions. The system performs a real-time diagnosis of the meteorological context, generating alerts about areas of critical events that require immediate attention. With integrated data analysis and exploration resources, MIND offers support for rapid decision-making in complex operational environments, enabling preventive and coordinated actions. The platform constitutes a complete situational awareness system, ideal for applications in natural disaster prevention, air traffic control, planning of civil and military operations, in addition to agribusiness, oil and gas activities, and water and energy resource management, contributing to the safety, efficiency, and sustainability of operations.

HORUS TRACKING AND SPOT

A module of the HORUS SUITE focused on orbital proximity analysis and collision risk assessment. It operates integrated or independently, calculates probability of impact, minimum distance, and TCA, supporting critical decisions. It has a secure database, retroactive simulations, and an optimized interface, with integration to sensors, tracking centers, and other modules of the suite. HORUS SPOT is a module for supervising and managing space operations, which centralizes processes, resources, and teams in an ERP-type environment. It offers an interactive dashboard, task automation, and total traceability, with a flexible and scalable structure, ensuring efficiency, agility, and operational security.



SAIPHER
Soluções Avançadas em Espaço Aéreo e Aeroportos



HORUS REENTRY AND DOMINUS

A module for orbital decay analysis and reentry prediction, allowing for risk estimation, prediction of impact points, and issuance of real-time alerts. It utilizes data from proprietary or collaborative sensors and generates detailed reports to support quick and secure decisions. HORUS Dominus is a module for the management and operation of space tracking centers, integrating optical sensors and radars. It automates tracking and data processing, offering real-time monitoring and mission planning with high precision, fully integrated into the HORUS SUITE.

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Soluções Avançadas em Espaço Aéreo e Aeroportos





AUTOMATIC WATER BODY IDENTIFICATION AND MONITORING SYSTEM - YARA TRACKER

Developed by Concert Technologies in partnership with Embrapa, it performs the identification and monitoring of water bodies via satellites, with continuous updating and integration with multiple data sources. The system offers resources for the analysis, management, and inspection of fish farms, rivers, lakes, and reservoirs, featuring an intuitive online interface and a detailed historical database.



INTEGRATED TRACKING DATA PROCESSING SYSTEM (SITDR)

The system gathers all the necessary tools in a single platform for the precise tracking of space artifacts. The system processes trajectory, acceleration, speed, and impact data, offering 2D and 3D visualizations, in addition to integrating meteorological and telemetry information. Developed from the system utilized at the Alcântara Launch Center (CLA), SITDR is in the final phase of validation at the site. Its versatility allows for adaptation to military applications, such as missile tracking, monitoring of unmanned aerial vehicles, and ballistic simulations.



DATA PROCESSING AND STORAGE SYSTEM

The system, produced by Equatorial Sistemas, performs the capture, encoding, and storage of data and images, also enabling the export of this information to external recorders. The company has participation in all Brazilian space programs, contributing significantly to the development of advanced subsystems and equipment. Currently, it is a co-executor in the SATVHR project, responsible for the optical payload processing electronics, the X-band data transmitter, and the antennas, consolidating its expertise in the national aerospace sector.



INFORMATION TECHNOLOGY AND CYBERNETICS

Cybersecurity and Digital Defense
IT Platforms and Infrastructure
Data Analysis and Intelligence
Enterprise Applications and Management
Software Development, Testing, and Quality Assurance
Communication, Collaboration, and Contact Center Services



 **atech**
GRUPO EMBRAER



INTEGRATED PLATFORM FOR AIR DEFENSE AND OPERATIONAL CONTROL

The solution comprises application software and a platform architecture that integrates core hardware and software components.

The platform is structured using Commercial Off-the-Shelf (COTS) components, configured for system deployment and operation within designated facilities while ensuring robust security, redundancy, and high availability.

The solution encompasses the full lifecycle, including design, development, integration,

deployment, and maintenance, and provides robust capabilities for regional airspace protection. Key functionalities include the control of interception missions, management of military operational movements, the safeguarding of restricted airspace and critical infrastructure, and the prevention of air-to-air and air-to-ground collisions.



SINTRES SIMEX EXPLOSION SIMULATOR

This system provides non-pyrotechnic, programmed, and non-destructive blast simulation, capable of generating repetitive events at two-second intervals with an adjustable sound pressure level ranging from 90 dB to 160 dB. It simulates artillery projectile impacts (ranging from 30 mm to 120 mm) and is designed to generate single detonations, joint impact sequences (up to 30 simultaneous impacts), or recurring sequences with a minimum one-second interval.

The system is compatible with the SiNTRES TRACER for Force-on-Force scenarios and for use with reusable hand grenades. Scalable and controlled via tablet, the system operates at distances up to 1 km. It significantly enhances exercise realism while offering a substantially reduced operational cost (on the order of cents per detonation), improved safety protocols, and full reusability of simulation components.

SINTRES T.R.A.C.E.R. TACTICAL REAL-TIME AUGMENTED COMBAT ENGAGEMENT & READINESS

This is an advanced force-on-force combat simulation system designed for use by Armed Forces and public security agencies, engineered for immersive, measurable, and scalable training. It provides a fully physical and realistic experience, with options for firing with or without Blank Fire, making it suitable for training in tactical operations, Close Quarters Battle (CQB), geopositioning, real-time feedback, and After Action Review (AAR). The system supports both Force-on-Force and Force-on-Target interactions, in addition to seamless integration with the SiNTRES BattleBots21 and BattleGrid20 modules.

The system can be complemented with sensors for vehicles and helicopters and the SiNTRES Si-MEX explosion simulator (up to 160 dB), thereby expanding realism and the diversity of training scenarios with enhanced safety and low operational cost.



MILITARY AIR OPERATIONS SIMULATOR (SOPM)

The system is capable of generating complex air operation scenarios, encompassing both general air traffic management and military operations.

Key benefits of the SOPM include a wide array of options for creating synthetic scenarios, the ability to generate programmed flights, and the introduction of unexpected conditions for manual flight training. The system also enables the concurrent execution of multiple exercises within a single operational environment. Furthermore, the SOPM supports "war game" mode simulation, where a single synthetic scenario provides simulated data for an exercise involving two distinct operational centers, thereby enhancing the validity and realism of integrated training.



GRUPO EMBRAER





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INTEGRATED PLATFORM MANAGEMENT SYSTEM

This system is responsible for the command and monitoring of all platform installations aboard a submarine, covering the electrical system (excluding generator control), the propulsion system, as well as auxiliary and submergence systems. The system includes the necessary software and hardware to execute its functions, featuring virtualized servers, network infrastructure, command stations, and programmable logic controllers.



REALDRIVE VEHICULAR DRIVING SIMULATOR GOV WITH MOTION (RDVG)

Developed by Realdrive, this is an evasive and offensive vehicular training solution aimed at defense and security forces.

It integrates hardware and software into a physical/mechanical system that realistically reproduces the sensations of driving a motorized vehicle, featuring a motion platform and force feedback steering. It offers both automatic and manual transmission, as well as a handbrake in mechanical, push-button, or pedal versions. The software includes realistic scenarios, such as Brasília (Federal District), and allows for the creation of customized environments and configurable vehicles. It enables training for personalized routes, convoys, evasive maneuvers, and real tactical situations. Additionally, it features a command and control center for exercise management and evaluation, ensuring safe and efficient qualification.

CLAVIS SIEM - OCTOPUS

This is a Security Information and Event Management (SIEM) platform for managing and correlating security events, which integrates data from diverse sources to identify incidents in real time. It enables the collection, storage, and analysis of logs with integrated threat intelligence, providing alerts and reports that support compliance actions and forensic investigations. Its open architecture provides the flexibility for customization according to client needs, ensuring unified asset visibility and greater control over the security infrastructure.



CLAVIS
segurança da informação





CYBER EXPOSURE MANAGEMENT PLATFORM - GAT CORE

This Cyber Exposure Management Platform centralizes the collection, normalization, and correlation of telemetry derived from various cyber data sources—including vulnerabilities, audits, non-compliance issues, and vendor risks—within a unified environment. Designed to support critical organizations, the system contributes to reducing exposure to cyber threats, strengthening operational resilience, and ensuring adherence to national and international standards. It provides strategic intelligence on cyber risks, enabling the protection of essential data, operations, and information assets.



CYBER POSTURE ASSESSMENT SYSTEM - GAT SECURITY SCORE

This non-intrusive cyber posture assessment system uses a Cyber Rating to indicate an organization's level of maturity in Information Security. The solution performs an analysis based on data from public and private repositories, in addition to information from the company's own digital environment, assessing over 70 points distributed across four risk categories. It is widely utilized by organizations seeking to enhance the cyber resilience of their ecosystem of vendors, partners, and supply chain—a practice known as Third-Party Cyber Risk Management (TPCRM) or Third-Party Risk Management (TPRM).



WEB INTELLIGENCE SYSTEM SOFTWARE - INTELLETOTUM

This system is dedicated to organizational knowledge management. By encompassing the entire intelligence cycle, it enables automated data collection, the monitoring of topics across open or restricted sources, and the organization of information for the production of strategic knowledge. Solutions based on this product are also applied to the management of legal processes, including activities such as telephonic and telematics interception.





PERSISTENT ADVANCED MONITORING (MAP)

An AI-powered cyber intelligence solution, certified as a Strategic Defense Product by the Ministry of Defense in 2024 and utilized by the Armed Forces Cyber Defense Center. The platform conducts continuous deep and dark web monitoring, early threat detection, semantic analysis, and scenario simulation to protect critical assets. Developed for governments and enterprises operating in complex environments, MAP anticipates cyber risks, prevents data leaks, and strengthens operational resilience with technology proven by dozens of institutions.

AI INTELLIGENCE SUITES FOR GOVERNMENT AND ENTERPRISES - TRACKER, CHATGUARD, DATAVERSO, AND HORUS

These solutions are designed to support governments and enterprises in the strategic management of security and information, combining technologies that form a scalable, integrated ecosystem for physical security, cyber security, and strategic intelligence.

Specifically, Tracker is a geospatial solution capable of processing geolocation data—with a history of up to three years—to identify mobility patterns and track threats such as trafficking and terrorism; the tool also contributes to logistical optimization and risk management while preserving data privacy.

ChatGuard monitors over 20 social media and messaging platforms, focusing on the detection of misinformation, bots, and fraud; the solution protects institutional reputation and allows for real-time crisis anticipation.

Dataverso is an advanced platform that integrates and analyzes data from multiple sources—Open Source, Deep/Dark Web, governmental, or corporate—facilitating in-depth investigations, fraud detection, and support for strategic decision-making.

Finally, Horus combines facial recognition, automatic license plate recognition (LPR), and real-time behavioral analysis for border protection, critical facility security, and access control, all in compliance with privacy and security regulations.



HARDWARE SECURITY MODULE (HSM) - KNET HSM



A Hardware Security Module (HSM) that serves as a sovereign root of trust for critical Defense infrastructures. Holding Common Criteria EAL4+ and FIPS 140-2 Level 3 certifications, the system protects cryptographic keys and applications within a physical and logical tamper-proof environment. Its support for post-quantum algorithms ensures the long-term confidentiality of data against future threats. The Secure Code Execution feature enables the protection of mission-critical logic, while high availability and performance of up to 10,000 transactions per second (tps) make the kNET ideal for applications such as national PKI, command and control, and payment systems.



PORTABLE CRYPTO-COMPUTER - KEYGUARDIAN

A portable crypto-computer developed to ensure security at the tactical edge. Ultra-portable and multifunctional, it offers secure storage, digital signature capability, two-factor authentication, and network encryption. Its One-Time Pad (OTP) encryption capacity provides theoretical information security, guaranteeing unbreakable communications in special operations, intelligence, and diplomatic missions. The KeyGuardian extends protection from the command center to the combatant, preserving data and communications even in hostile environments.



NETWORK ENCRYPTOR - COMMGUARD

A high-performance network encryptor designed to protect strategic communications against state-level adversaries. It operates on Layers 2 and 3 with throughputs up to 10 Gbps, shielding IP traffic between headquarters, bases, and tactical assets. Equipped with post-quantum algorithms and SIGINT countermeasures, the CommGuard ensures not only information confidentiality but also mission operational security. Its ruggedized versions guarantee reliability in any scenario, maintaining the integrity of critical communication backbones.



INTEGRATED ECOSYSTEM - BRUITBLANC

An integrated cryptographic sovereignty ecosystem that offers comprehensive protection for nations. It unifies the kNET HSM as the root of trust, the CommGuard network encryptor for strategic infrastructure, and the KeyGuardian tactical device for endpoints, all managed centrally. The solution creates a self-sufficient security domain, protecting data at rest, in transit, and in use, and guaranteeing total control over critical communications, from the command center to the edge. With OTP (One-Time Pad) encryption and exemption from ITAR and Wassenaar regulations, BruitBlanc ensures complete sovereignty and technological independence.





PORTABLE SYSTEM FOR INTELLIGENCE AND CRIMINAL INVESTIGATION - RDK470

A reliable and discreet portable system capable of rapidly transforming any vehicle into a technical surveillance unit. Ideal for covert operations, it provides remote real-time audio and video surveillance, along with high-resolution imagery suitable for recording evidence. With quick installation and a concealed profile, the system ensures operational mobility and discretion. It features up to 12 hours of autonomy via internal batteries, securing the necessary stealth for intelligence and investigative operations.



MINI DATA CENTER

A modular solution with a complete infrastructure for mission-critical operations, integrated into a cabinet and based on the all-in-one concept, ensuring uninterrupted 24/7 operation, high availability, and critical environment management. The system offers optimization through a personalized, modular, and expandable design, as well as enhanced security with physical and logical access control. It also includes reliable AC/DC power systems, UPS, grounding, fire detection, alarm, and suppression, precision air conditioning, emergency ventilation, and internal lighting. The thermally and acoustically insulated racks allow for indoor operation and facilitate field assembly and integration. Applicable to IT and Telecom environments, the solution is ideal for data processing, storage, and flow centers, ensuring continuous and reliable performance in critical operations.



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UNIFIED COMMUNICATION SYSTEM - UNA

The Installation, Training, and Support Service for the Unified Communication System (UNA), recognized as a Strategic Defense Product (PED) under Ordinance GM-MD No. 3,896/2021, comprises a set of activities aimed at delivering the system fully operational and guaranteeing its continuous availability, ensuring efficient and uninterrupted use in defense and command applications.

digitro.





modirum

GESPI



SOFTWARE-DEFINED RADIOS (SDRS) AND ADVANCED WAVEFORMS (WFS)

Next-generation solutions that offer unprecedented flexibility, adaptability, and resilience across the electromagnetic spectrum. With applications ranging from secure military communications to electronic warfare and unmanned systems, SDRs allow for rapid reconfiguration for anti-jam, Beyond-Line-Of-Sight (BLOS), and satellite missions. Developed by Modirum Gespi, these systems have already been delivered to the Brazilian Army, including the co-development of HF and X-band waveforms for defense initiatives. The company continues to advance research and development of new concepts in Electronic Warfare, guaranteeing sovereign, innovative, and future-ready solutions.

MINIPC E1P

A high-performance desktop computer designed for enterprise, industrial, corporate, and military applications that demand reliability and robustness. Its hardware, developed with precision engineering and military-standard components—such as PTC Fuses and TVS Diodes—guarantees resistance to electrical surges and operational failures. Thanks to its rugged design and meticulous component selection, it offers up to 11 times greater resistance to failure than conventional equipment, ensuring increased availability and durability in critical environments.



ETECNET



CLOUDMACHINE

Designed to provide the same experience as a desktop PC, CloudMachine ensures fluid performance, enhanced security, mobility, efficiency, and agile deployment, while reducing costs and simplifying maintenance. CloudMachine overcomes the limitations of Virtual Desktop Infrastructure (VDI) technology present in traditional thin clients. It allows the use of webcams, high-resolution video playback, video conferencing, and the connection of USB devices—such as printers, scanners, and biometric readers—which are automatically redirected to the virtual machine as if they were connected locally.



ETECNET



PARKS

4G LTE ROUTER - NETAIR 400W

The router offers robust and reliable connectivity through the high speed of 4G mobile networks. Designed for demanding applications, it features a reinforced casing, DC power supply, output for an external LTE antenna, two Gigabit Ethernet interfaces, and 802.11 b/g/n Wi-Fi, combining performance, stability, and security in a single device.



PARKS

HIGH-PERFORMANCE ETHERNET ROUTER - NETLINK 2000

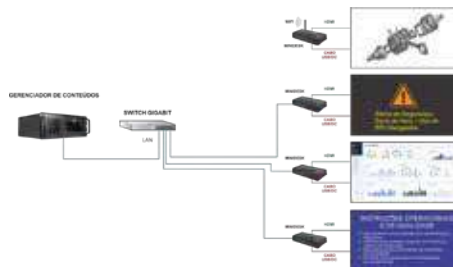
A cost-effective and comprehensive router, ideal for small and medium-sized enterprises. Compatible with both optical and electrical interfaces, it offers speeds up to 1 Gbps and advanced routing and switching features. It ensures stable connectivity, high performance, and simplified management, with support for Quality of Service (QoS) and Virtual Routing and Forwarding (VRF) for agile and scalable networks.

VIDEO WALL

This system delivers high-definition imagery, uniform brightness, and true color reproduction, making it ideal for command centers, surveillance rooms, corporate environments, and digital signage applications. Featuring a modular design and ultra-thin bezels, it allows for customized and high-impact display configurations. Developed with national technology, it combines robustness, reliability, and intelligent management capabilities, ensuring professional-grade performance in critical applications.



ETECNET



ETECNET



DIGITAL SIGNAGE

This system efficiently and simply manages and automates content display across multiple screens. Each display is controlled by a MiniDesk Etecnet, connected to the network via LAN or Wi-Fi, offering flexible installation options. The system allows content to be scheduled, updated, and distributed centrally and in real-time, maintaining dynamic and current visual communication. Ideal for businesses, retail stores, institutions, and corporate settings, it transforms screens into powerful information and marketing channels.

SECURE ENCLOSURE

A high-security solution against vandalism and external threats, this enclosure internally integrates equipment, AC/DC power systems, ventilation, a Fire Detection and Alarm System (FDAS), and cabling. Its rugged structure, built with galvanized steel plate and concrete infill, provides mechanical, ballistic, and forced entry resistance, ensuring continuous operation. Available in Back-to-Back, Side-by-Side, and Single versions, it features robust sealing, a multi-lock door with an encapsulated padlock, high-efficiency ventilation, internal compartmentalization, alarm-enabled telemetry, and rapid field integration. It is applicable to telecommunications, data centers, remote sites, and border monitoring.



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COMBATANT PERFORMANCE AND OPERATIONAL HEALTH

Protection and Safety Equipment
Operational Equipment
Gear and Uniforms
Medical Equipment
Operational Rations



TROOP PARACHUTE - RZ-21-1

The RZ-21-1 is a high-performance personnel parachute engineered to ensure stability, control, and safety during operational jumps into predetermined areas. With a load capacity of up to 400 lbs (181 kg), it features a progressive opening system in which the line connecting the apex to the skirt gradually detaches, providing soft and uniform inflation. In approximately 4 to 7 seconds, the RZ-21-1 reaches its optimal descent speed, generating an average forward glide of 10 ft/s (4 m/s) and excellent maneuverability.



OPERATIONAL PARACHUTE - VP300

This multi-mission operational parachute was developed to support diverse military operations, offering control, precision, and reliability in critical situations. Its rugged design ensures durability, stability, and efficient response across various jump conditions, guaranteeing superior safety and performance in demanding environments.



EMERGENCY PARACHUTE - RZ-21-R

This ventral-type emergency parachute is designed to ensure maximum safety in contingency situations, being manually activated in the event of main parachute failure. Compact and efficient, it features rapid and stable opening, ensuring immediate response and control during landing. It is developed with the same high standards of quality and precision applied to Vertical do Ponto's primary parachutes.





CARGO PARACHUTE - G-13

The cargo parachute is designed to support up to 500 lb (227 kg), ensuring safety and stability during the air drop of equipment and supplies. Its reinforced structure and reliable performance allow for combined use with other parachutes, increasing the total load capacity when necessary. Ideal for logistical operations and missions that require precision in aerial transport, it combines durability, efficiency, and versatility in a single system.



CARGO BUNDLE - A-22

The A-22 is an adjustable cargo bundle designed to ensure safety and efficiency in aerial operations. Manufactured from reinforced canvas and high-strength webbing, it offers durability even under extreme conditions. During the drop, the parachute keeps the bundle suspended by risers, while the base rests on a slider that ensures stability. To absorb impact and protect the load, it utilizes "Honey Comb" shock absorbers. The assembly has an approximate weight of 60 pounds.



BOMB DISPOSAL AND DEMINING SUITS

These Bomb Disposal and Demining Suits were developed using cutting-edge technology to ensure maximum protection during the neutralization of explosive ordnance, including shrapnel, shock wave impact, and heat generated by detonations. Designed to offer safety, comfort, and mobility, these are essential equipment for high-risk operations in military and public security environments. Meeting the most stringent international standards, the suits are certified according to STANAG 2920 (NATO), NIJ 0117.01, and CWA 15756:2007.

PROTECTA®
PROTEÇÃO A TODA PROVA





OLHAR MONOCULAR - OPTRONICS

The OLHAR Monocular was developed to enhance tactical operations, representing a significant advancement for the Armed Forces and Public Security agencies. The equipment increases efficiency in critical missions carried out under both daytime and nighttime conditions. Its versatility and high performance make it essential for operations in complex environments, ensuring greater precision, safety, and operational capability.



OLHAR - MULTIPURPOSE THERMAL MONOCULAR

The OLHAR Multipurpose Thermal Monocular was developed to enhance the operational performance of the Armed Forces and Public Security agencies in conditions of restricted visibility, guaranteeing efficiency in both daytime and nighttime operations. This equipment increases efficiency in critical missions and is essential for operations in complex environments, ensuring greater precision, safety, and operational capability. Lightweight and rugged, it is resistant to oil, dust, sand, rain, drops, and water immersion. It features quick battery replacement, internal photo and video recording, and digital video output, in addition to interchangeable lenses (1× Basic Mode and 3× Hunter Mode), which ensure tactical versatility and immediate adaptation to the operational environment.



EITMSS - THERMAL IMAGING EQUIPMENT FOR MSS LASER GUIDANCE AND AIMING UNIT

The EITMSS is a high-performance, cryogenically cooled thermal imaging system developed with national technology for use with the MSS 1.2 Laser Guidance and Aiming Unit. Designed for operation in night or low-light scenarios, it assists in the detection, observation, and engagement of targets with high precision.

As the sole thermal imaging equipment of its kind, the EITMSS allows for simple and rapid coupling to the MSS Firing Post without compromising alignment. Resistant to the most severe environmental conditions, the system can be easily operated via an optional wired remote control and provides remote viewing through a video interface.





TACTICAL AND BALLISTIC VESTS

These vests are designed to provide protection and safety. The Inbra Group produces the Level III operational tactical vest, COL-INB/5.5-TAC.I, featuring an ergonomic design for operational use and a MOLLE system for configuring pockets for radios, equipment, grenades, magazines, etc., as required by the mission. The company also offers the Plate Carrier version, COL-INB/ESP-TAC.I, which provides frontal, dorsal, and lateral torso protection, with ballistic resistance against 7.62 x 51 mm – M80 and 5.56 x 45 mm – M855/SS109 ammunition.

The Protecta Group manufactures the NIJ 0101.06 III-A vest, which is lightweight and flexible, with NIJ 0101.06 certification. The CoreShield meets key market demands for weight, flexibility, comfort, and ballistic performance. The ballistic panel features high resistance to water and moisture, along with resistance to chemicals, UV rays, and other environmental factors.

PFM Protect produces a tactical ballistic vest carrier made of Cordura 1,000, featuring a reinforced drag handle, a front pocket, and zippers and hook-and-loop fasteners on the front and back, available in sizes XS, S, M, L, XL, and XXL, in green, gray, black, or camouflage colors. The tactical carrier has two front pockets that hold three rifle magazines, two side compartments for various accessories, and a modular system that allows accessories to be attached to the front and back.



BALLISTIC PLATES

The personal protection ballistic plate from BCA is available in single-curve or multi-curve configurations, with a weight of 1.35 kg ± 0.1 kg. Manufactured from Ultra High Molecular Weight Polyethylene (UHMWPE), it has a protection Level III (NIJ 0101.04).

The special Level III ballistic plate, PLA-INB/002.18, produced by Inbra Group, offers stand-alone ballistic protection against 7.62 x 51 mm M80 and 5.56 x 45 mm M855/SS109 ammunition. It is designed to provide an adequate fit to the body, covering major vital organs (heart, kidneys, liver, and lungs). Constructed from UHMWPE + ceramic, it features a single-curve profile, a "shooter's cut" style, dimensions of 250 x 310 x 28 mm, a polyurethane coating resistant to humidity, oil, and saltwater, and weighs 2.000 kg (±5%).

Protecta Group plates are designed to offer advanced protection against high-penetration projectiles, such as 7.62 x 51 mm NATO AP ammunition. Produced with high-density UHMWPE and an anti-fragmentation coating, they meet NIJ 0101.06 standards, ensuring exceptional performance in tactical and urban operations.

The restricted-use Level III+ (plus) ballistic plates from PFM Protect, for front and back, model DS-3-AS-MK1, are composed of a ballistic steel and polyurethane core, with a plate density of 35.50 kg/m², a weight of 2.75 kg ± 5%, dimensions of 305 x 254 mm, and a thickness of 16.5/18 mm. The plate shape provides high mobility, and it holds compliance certification PCE-215-2023-01.



TACTICAL AND BALLISTIC SHIELDS

The ESC-INB/IIIA-OPS-II shield, produced by the Inbra Group, features a flat construction with structural ribs and optimized dimensions for advanced tactical missions and high-risk special operations. Available in versions with a left-arm grip or an ambidextrous grip, the shield is equipped with adjustable padded arm straps, a shock-absorbing pad, and an anatomically designed metal handle. The lower section includes an auxiliary metal handle designed for rest and to facilitate operational use. The ballistic-rated viewport, equivalent to the shield's protection level, features an anti-scratch coating and is sized appropriately to provide a perfect view of the environment ahead of the shield without exposing parts of the body.

The Protecta Group Ballistic Shield line comprises models that guarantee individual or collective protection, certified according to NIJ 0108.01, in Level III-A and Level III, with super lightweight and versatile solutions.





AUTOMOTIVE ARMOR - PRO-UD

Manufactured from Ultra High Molecular Weight Polyethylene (UHMWPE), this material is 32% lighter than Aramid and offers 17% superior ballistic capability. In addition to high water resistance, it maintains consistent performance across various climatic conditions, ensuring durability and reliability. Its advanced design permits the use of 50% fewer pieces, which facilitates installation in hard-to-reach areas and reduces component overlap. The combination of lightness, strength, and efficiency makes PRO-UD an ideal solution for modern vehicle armor, combining high-level protection with optimized performance.

PROTECTA®
PROTEÇÃO A TODA PROVA



G2 CAMOUFLAGED LIGHTWEIGHT BALLISTIC VEST CARRIER

This modular equipment allows for the insertion of hard armor plates in the frontal, dorsal, and lateral areas. Manufactured from flame-retardant Cordura 1000 with a parachute nylon lining, it offers high resistance and comfort through its breathable nylon and 5 mm PAC foam. It features elastic adjustments and water drainage grommets, ensuring ergonomics and performance under diverse operational conditions.



FOR HONOR



FOR HONOR



OLIVE DRAB HORIZONTAL POUCH

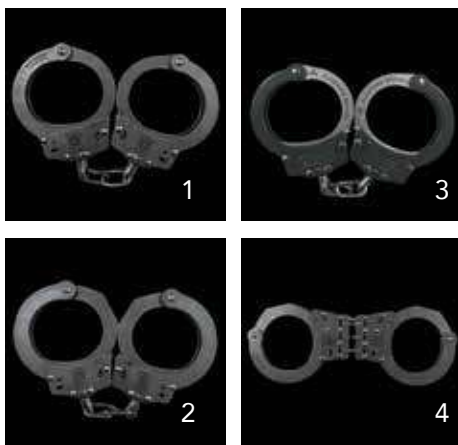
Designed to store small and medium-sized operational items, it can be attached to the vest as needed. Constructed from durable Cordura, it features a fixed Vislon zipper with two ambidextrous sliders and polyester pull tabs, ensuring durability and practicality. The structure includes horizontal and vertical polyamide webbing and a slide-and-lock system with a semi-rigid strap, which ensures firm and rapid attachment during use.



TACTICAL HELMETS

The BCA ballistic helmet is made with aramid fiber, utilizing BCA NeoFlex Titanium ballistic fabric technology. Protection level: III-A (per NIJ 0108.01 and 0106.01).

The Inbra PASGT helmet, CAP-INB/PASGT 82, is available in Levels I, II, and III-A. This tactical helmet is designed exclusively for military and police actions, including the restoration of public order, protection of public and private property, recovery of occupied property, and other operations where ballistic head protection is essential. It provides protection for the operator's head, face, and neck against gunfire, as well as against injuries caused by blunt objects launched using slingshots, pyrotechnic devices (rockets), or chemical incendiary weapons (Molotov cocktails).



HANDCUFFS

1. Vipera: A universal, single-swing model with a double safety lock and bilateral operation. It comes with two standard stainless steel keys, ensuring reliability and practicality.

2. Constrictor: An exclusive model featuring a double swing and greater wrist adjustment due to the increased number of teeth. It has a double safety lock and comes with two universal stainless steel keys.

3. Artheris: The carbon version features a single swing, is lightweight and resistant, with lateral activation and a double lock. It is available in various finishes, including Algemas Brasil's exclusive camouflage.

4. Constrictor Hinge: A chainless model with a central hinge that restricts the detainee's mobility. It features a double swing, a double safety lock, and comes with two universal stainless steel keys.



RETRACTABLE BATON - MARÍTIMUS

This equipment is manufactured from tempered steel with a matte black finish and weighs 535 grams. It measures 50 cm when extended and 20 cm when closed, with a diameter of 22 mm at the base and 10 mm at the tip. Its uniform surface, free of burrs or sharp points, ensures safe handling. The rubberized base is resistant and flame-retardant, and the tip features a threaded system that allows for the installation of various accessories according to operational needs.



BÉLICA MILITARY TACTICAL BELT

This equipment is widely used in public security for offering stability, security, and high performance in transporting gear during tactical operations. Approved as a Strategic Defense Product (PED), it is noted for its strength, durability, and efficiency, making it essential for professionals in demanding operational missions.



TACTICAL HANDHELD FLASHLIGHTS - AEGIS TL-08, TM-18, RANGER, FOR PISTOLS AEGIS LP-08, AND FOR HEAD AEGIS CAVE

Developed for different operational contexts, the product line offers specialized solutions. The TL-08 combines high power, durability, and silent activation. The AEGIS TM-18 offers customizable light modes and a robust structure. The Ranger, intended for long guns, features high intensity, a remote switch, and Picatinny rail compatibility. The LP-08, ideal for pistols, stands out for its compact size and practicality. Finally, the national AEGIS CAVE headlamp delivers 2,500 lumens, an integrated magnet, and a wide beam range, ensuring performance and versatility in any mission.

LARGE-CAPACITY BACKPACK

The military backpacks stand out for their robustness and versatility across different environments and climatic conditions. The Large-Capacity Backpack is made of camouflage Cordura fabric, with a metal frame, padded shoulder straps, and a quick-release system. The Assault Backpack, a more compact model, also uses camouflage Cordura-type fabric and has adjustable straps. The Atlas Backpack, a medium-capacity model, is produced in green Cordura-type fabric, featuring a metal frame, padded straps, and an easily adjustable hip belt, offering comfort, resistance, and practicality in tactical and field operations.





RADIO POUCH

Designed for use in various climatic conditions and environments, this equipment is a benchmark in individual military performance and reliability. Constructed from camouflage Cordura-type fabric, it features easily adjustable straps, ensuring comfort, resistance, and practicality in tactical operations.

DROP LEG POUCH

Developed for use in different climatic conditions and environments, this item stands out as high-resistance individual military equipment. Constructed from camouflage Cordura-type fabric, it features easily adjustable straps that ensure comfort, practicality, and durability in tactical operations.



QUICK-DRAW MAGAZINE POUCH - FAST MAG OLIVE DRAB

This hybrid quick-draw magazine pouch for 5.56 mm and 7.62 mm is designed to offer secure retention and immediate accessibility to the operator. It features lateral injected polymer shafts and 3.5 mm elastic adjusters, which allow both calibers to be adjusted and secured precisely. The reinforced polymer shafts with elastic regulation ensure the magazine is locked, while keeping approximately 40% of its surface exposed to facilitate manual contact and quick drawing by the operator.



SEMIRIGID TOURNIQUET HOLDER

An exclusive model in the Brazilian market, this holder is designed to offer quick access at any angle, including inverted, thanks to its 360° system. Lightweight, compact, and highly resistant, it protects the equipment against sun, rain, and dust, ensuring long-term durability. It features triple retention, adjustable elastic compression, and a chamfered front tab, as well as attachment compatibility with the M.O.L.L.E system or a belt, allowing for vertical or horizontal use. Manufactured with polyester webbing, an internal high-resistance nylon structure, and a 100% polyamide hook-and-loop fastener, the DESMODUS weighs 115 g and is available in black, coyote, green, and orange.

PRE-HOSPITAL APPLICATION TOURNIQUET - T-APH DESMODUS

Designed for the quick and effective control of severe hemorrhages in upper and lower extremities, ensuring total blood occlusion in pre-hospital care and tactical operations. Featuring a unique application protocol, it offers simple, agile, and safe use, thanks to the innovative retention clip system that reduces application time and allows for the firm locking of the 160 mm aluminum windlass bar. The structure includes a high-resistance polymer stabilization plate, a 38 mm traction strap, and a 100% nylon hook-and-loop fastener, ensuring maximum fixation. It also has a time-marking area, compatible with any pen, optimizing medical-operational control.



RADIO POUCH - OLIVE DRAB

A functional accessory that allows the modulated radio to be transported directly attached to the vest, in a strategic and easily accessible position. Its intelligent design keeps the on/off, volume, and channel tuning buttons exposed, guaranteeing practicality, speed, and total efficiency in handling the equipment during operations.



DOUBLE MAGAZINE POUCH - TAB LOCK FAST BÉLICA MILITAR

This high-performance double magazine pouch is widely recognized for its efficiency, resistance, and reliability in tactical operations. The Tab Lock Fast system ensures firm fixation and rapid release of the magazines, offering essential agility in high-intensity use situations. Approved as a Strategic Defense Product (PED), the accessory establishes itself as a national benchmark for quality, functionality, and durability, being widely used by public security professionals and the armed forces.



FIBERGLASS HARD CASE - COMBAT LINE

This portable, desktop-type field case was developed to offer resistance, organization, and mobility in field operations. Manufactured from monoblock Fiberglass with structural ribs, it demonstrates high durability and withstands severe use conditions without compromising its integrity. The assembly includes two folding tables and two chairs, as well as a central module with six drawers for organizing materials and documents. With dimensions of 870 x 660 x 750 mm when closed and 2600 x 660 x 750 mm when open, it is rugged, functional, and quick to assemble, making it ideal for logistical, administrative, and tactical operations where practicality and efficiency are essential.



FIBERGLASS CHEST - COMBAT LINE

This line was developed to ensure maximum protection, durability, and resistance for transporting sensitive tactical equipment in severe operational environments. Manufactured from monoblock Fiberglass with structural ribs, the chests offer high resistance to impacts and a long lifespan. Featuring a waterproof seal and IP-67 certification, these cases ensure total protection against dust and temporary immersion, making them ideal for military, logistics, and field operations.





SAFETY BOOTIE - DUAL DENSITY SOLE, PVC, STEEL, AND COMPOSITE TOE

An occupational bootie-type safety shoe with elastic gussets, a split leather upper, and a non-woven lasting insole assembled using the Strobel system. It features a plastic toe for shape retention and a dual-density polyurethane outsole, ensuring protection, comfort, and durability in industrial and operational environments.



LONG AND MEDIUM PVC SAFETY BOOT

Boots developed to provide integral protection, resistance, and comfort in industrial, agricultural, and operational environments. Manufactured from fully polymeric material, they offer total impermeability, high durability, and easy sanitization, making them ideal for use in wet conditions or low-level chemical risk situations.

TACTICAL BOOTS

Tactical boots developed with a focus on comfort, resistance, and protection. Available models include: 8627 AP Coyote (Airstep), GS 3000 Boot (Parabellum / Vento), Combat Boot Type II, and Jungle (Viposa).



PARABELLUM | VENTO





BOOT - GS 3000

The GS 3000 Boot is designed to meet the demands of tactical missions, offering the ideal combination of robustness, lightness, and versatility. Manufactured with Nanox®, it features a 100% waterproof structure and incorporates the Climatex® membrane, which controls internal thermal conditions, ensuring comfort and keeping the feet dry. It also includes an anti-impact rubber toecap overlay, which provides additional protection and superior resistance in demanding operational environments.



PARABELLUM | *VENTO*

CAMOUFLAGE UNIFORM SET

Developed for military and security use, this set offers comfort, durability, and superior performance. Constructed with Santista's DURAPRO or Terbrim fabrics, it combines cotton and high-tenacity polyamide, ensuring strength and color fastness. The set includes a Type II combat shirt and trousers, and a camouflage cap, all made from 67% polyester and 33% cotton fabric (225 g/m²), featuring a highly durable camouflage print.



bds | nayr

NOMEX COMFORT FLAME-RESISTANT FLIGHT SUIT

The Nomex Comfort Flame-Resistant Flight Suit, manufactured with DuPont fiber, has been utilized by police and military aviation since 1965, offering protection, lightness, and comfort in critical situations. It is also available in a female cut, ensuring proper fit and mobility, in addition to its inherent flame-retardant and anti-static properties.



DELTA
uniformes especiais





nayr



COMBAT JUMPSUIT

The fabric composition is 67% Polyester and 33% cotton, at 225 g/m². It features a standard camouflage repeat pattern print.

NOMEX COMFORT FLAME-RESISTANT FLIGHT JACKET

Constructed from Nomex® fabric, a DuPont brand globally recognized for its fire resistance, lightness, and durability. First used by the U.S. Navy in 1965, Nomex® has become a benchmark for safety and performance. Currently employed in Brazilian police and military aviation, the Nomex Comfort fabric guarantees reliable protection against high temperatures and direct flames, while maintaining mobility, comfort, and operational performance in extreme conditions.



DELTA
uniformes especiais



DELTA
uniformes especiais



NOMEX FLAME-RESISTANT FLIGHT GLOVES

Developed to ensure thermal protection, comfort, and high tactile sensitivity in aerial and combat operations. Manufactured with soft capeskin palms (hair sheepskin) and flame-resistant aramid fiber knit uppers, they offer an anatomical fit and excellent performance in extreme conditions. They feature conductive fabric on the tips of the middle, index, and thumb fingers, allowing use with touchscreens, while remaining soft, flexible, and washable, ensuring durability and practicality in operational missions.



BLACK BASE LAYER SET

Developed to provide thermal protection, comfort, and breathability for operations conducted in cold environments or those subject to intense climatic variations. Comprised of a shirt, trousers, balaclava, and a pair of gloves, it is made from microfleece fabric (92% polyester and 8% elastane, 225 g/m²), offering lightness and elasticity. It also features an antimicrobial finish, which reduces odors and prevents the proliferation of microorganisms, in addition to the Pantone 19-4007 TCX black color, which ensures tactical discretion and visual standardization.



nayr



CAMOUFLAGE SHORT-SLEEVE SHIRT

Developed for operational and instructional use, this shirt offers lightness, thermal comfort, and durability in field environments. Made from 100% combed cotton knit fabric, 150 g/m², it features a camouflage print with a light green background and brown and dark green tones, produced with reactive dyes, without the use of pigments or resins. Ideal for tactical activities, military instruction, and field operations, it combines quality, functionality, and a visual standard compatible with camouflage uniforms.

nayr



HOLSTERS - G5F, BLACK OPS, HAMMER PRO BÉLICA MILITAR

The G5F, Black OPS, and Hammer PRO Bélica Militar holsters represent the cutting edge of tactical technology and performance. The G5F offers precision, comfort, and resistance in extreme conditions; the Black OPS ensures rapid draw speed and reliability for daily use; and the Hammer PRO, recognized as a Strategic Defense Product (PED), stands out for its high performance, security, and functionality, serving both military and police use.

BÉLICA
NA PAZ E NA GUERRA





MPS 400 PANDORA III® MULTI-FOLD STRETCHER



SITMED
NUMBER ONE IN LIFE TRANSPORT



Developed for military rescue and evacuation operations, this stretcher features quick opening and closing, low weight, and a compact design, making it ideal for combat emergency situations. Manufactured according to NATO standards for aeromedical evacuation, it features retractable handles that facilitate transport and storage. It can be used in conjunction with the Pegasus® military carrier, enhancing mobility during casualty movement. Constructed with high-strength, lightweight materials, it is essential equipment for tactical rescue missions and military environment salvage operations.



**DES
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DUS**



RESCUE LITTER - ANTHONY

A multipurpose, folding, lightweight, and compact equipment, the Anthony litter is ideal for tactical, police, combat, natural disaster, and pre-hospital care (PHC) operations. Its Cordura® Ripstop bottom covering guarantees resistance and durability, while the eight Neoprene-padded side handles reduce operator fatigue during transport. It also features end handles, a central locking belt, and a Cordura® Ripstop pocket, which allows for quick removal and attachment via the MOLLE system to vests, backpacks, or PHC kits, ensuring stability, practicality, and efficiency in rescue operations.

MILITARY CARRIER - PEGASUS MTS 410

Designed to couple with the Pandora III® multi-fold stretcher, this carrier provides mobility, resistance, and efficiency in tactical and medical evacuation operations. It can be utilized in TACEVAC (Tactical Evacuation), CASEVAC (Casualty Evacuation), and MEDEVAC (Medical Evacuation), as well as in disaster situations, field hospitals, vehicles, and aircraft, ensuring operational and logistical flexibility. It is essential equipment for military rescue units and rapid response forces, combining robustness, practicality, and reliability in the field.



SITMED
NUMBER ONE IN LIFE TRANSPORT





pfmmedical
Qualidade e Experiência • desde 1971



INDIVIDUAL FIRST AID KIT (IFAK) - IFAK PRO 950

A complete solution for pre-hospital care in military, police, and rescue operations. Available in black or camouflage, it brings together 13 essential items for trauma control, airway management, and body temperature maintenance, including a tourniquet, hemostatic gauze, Israeli bandage, airway adjunct, catheter, and thermal blanket. All components, registered with ANVISA (the Brazilian Health Regulatory Agency), are organized in a practical and resistant tactical leg pouch, ideal for use in hostile and high-demand operational environments.

MILITARY DENTAL EQUIPMENT

A transportable dental solution is provided, featuring an electrically controlled backrest, a command/control panel, high- and low-speed instruments, a photopolymerizer, piezoelectric ultrasound with LED light, and a venturi aspirator. The unit includes a Thermo Comfort system (heated water in the terminals), a variable intensity Evolution LED reflector, an auxiliary unit with a polyester bowl, a water reservoir with an ultraviolet sterilizer, a solid waste filter, and a reservoir for suction waste disposal. Power is supplied by a 110 V or 200 V oil-free compressor with 1 H.P. The kit also includes a solid waste filter with vapor condensers and automatic drainage, a transport box, a drawer for tools and spare parts, and a dental stool.



Olsen





OPERATIONAL COMBAT RATIONS

The Cellier Operational Rations are shelf-stable kits produced according to NATO standards, offering complete and sustained nutrition for campaigns, training, and military operations. Composed of thermally processed foods that do not require refrigeration, they are available in 6, 12, or 24-hour versions, ensuring energy and performance in the field.

The PROMEAL Survival Ration is compact, highly caloric, and designed for critical situations such as rescue missions, military operations, and humanitarian actions, ensuring reliable sustenance even in extreme environments.

DEHYDRATED MIXES

The dehydrated mixes, Protein Bean Broth and Protein Tomato Soup, are practical and nutritious solutions, ready in just 3 minutes. With 12 g of isolated pea protein per serving, along with natural fibers and ingredients, they are free of gluten, preservatives, and salt, offering energy and muscle recovery ideal for operational use and field rations.

The Protein Bean Broth is prepared with dehydrated bean and seasoned with sweet and smoked paprika, while the Protein Tomato Soup combines selected tomatoes and pea protein for a light and functional preparation.



mexidona



mexidona

PASTA MEALS

This is a line of dehydrated protein pasta meals with chicken, tomato, or mushroom sauces, ready in just 6 minutes. Each 100 g portion yields a 450 g complete meal, combining whole grain rice flour and isolated pea protein to offer lightness, high nutritional value, and excellent protein content, ideal for operations, campaigns, or field use.



THERMALLY PROCESSED FOOD - MRE (MEAL READY TO EAT)

Known as MRE (Meal Ready to Eat), these ready-to-consume meals undergo a rigorous thermal process that eliminates microorganisms, thereby eliminating the need for preservatives, refrigeration, or hydration. Packaged in seven-layer protective sachets, they have a shelf life of up to 24 months. Each kit contains portions of 350 g of protein and 250 g of a side dish, with up to 30 menu options adaptable to client needs. Practical, nutritious, and palatable, MREs are ideal for military operations, rescue missions, humanitarian actions, and emergency situations.



TYPICAL DISHES KIT



The VAPTA Typical Dishes Kit compiles ready-to-eat and sterilized meals, developed to offer practicality, taste, and high nutritional value in logistical operations, emergencies, and campaigns. The combinations include traditional recipes such as Beef Stroganoff with Bean and Sausage, Chicken Stroganoff and Pot Roast, Feijoada (Black Bean and Pork Stew) and Ground Beef with Potatoes, Beef Hash with Rice and Beans, in addition to Beef Goulash and Beef with Vegetables. Each kit guarantees energy, variety, and food quality, maintaining a homemade taste combined with operational convenience.



COMPLEMENTARY DEFENSE PRODUCTS

Engines, Heavy Machinery, and Mechanical
Components

Energy and Power Control

Infrastructure, Surveillance, and Physical Security

Advanced Systems and Sensors

Tools, Spare Parts, and Advanced Manufacturing

Sealing, Insulation, and Chemical Components



TURBOJET ENGINE - TJ-1000 AND TJ-200



The Turbomachine engines were developed for high-performance aeronautical applications, combining efficiency, reliability, and compliance with MIL qualification standards. The TJ-1000 model offers 1,000 lbf of thrust in a compact assembly, already integrated into two Brazilian platforms. It features a four-stage transonic axial compressor, a high-precision FADEC (Full Authority Digital Engine Control), and an integrated generator for powering the aircraft systems. It can be started both on the ground and in flight. Dimensions: 350 × 985 mm.

The TJ-200 is an ultra-compact turbojet intended for missiles, aerial targets, and tactical UAVs, offering an excellent thrust-to-weight ratio. Its modular architecture simplifies integration and maintenance, while the FADEC ensures precise control and stable operation. Dimensions: 210 × 510 mm.

AERONAUTICAL TURBINE - TR 5000/ATJA45-40

This product was developed and financed through a strategic collaboration between the private sector, represented by AERO CONCEPTS, and a government initiative involving the Institute of Aeronautics and Space (IAE), the Aeronautical Institute of Technology (ITA), and financial support from FINEP. Compact and highly efficient, the engine has a maximum diameter of 360 mm, a maximum length of 1100 mm, and a dry mass of 65 kg, without accessories. Its main performance characteristic is the capacity to generate 5000 N of thrust, operating efficiently at speeds up to Mach 0.9.





MODULAR PRODUCTION LINES FOR RDX AND TNT FACTORIES

Specializing in modular lines for the manufacturing of energetic materials—such as TNT and RDX—and strategic components, the Mac Jee Group develops complete solutions for the defense industry. All their production plants feature a water reuse system, capable of recovering up to 80% of the volume used in the manufacturing process.



TURBOMACHINE

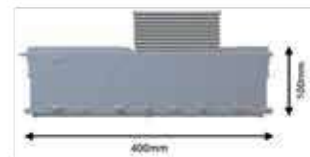


FULL AUTHORITY DIGITAL ENGINE CONTROL (FADEC)

The Full Authority Digital Engine Control (FADEC) is an onboard computer developed by Turbomachine to optimize the performance of aeronautical engines. Its modular architecture allows for adaptation to different configurations, ensuring reliability, precision, and simplified integration. The system automatically manages engine operation, regulating fuel flow according to aircraft commands and monitoring critical parameters such as pressure, temperature, rotation, and vibration. Its main functions include: automatic start, ignition, and shutdown, continuous monitoring, precise fuel management, in addition to ensuring safety and efficiency throughout the mission.

HIGH RESOLUTION OPTICAL PAYLOAD - E4UCAM

E4UCAM is the new addition to OPTO's satellite camera portfolio, featuring an Earth Observation Optical System capable of generating high-resolution images (2.0m GSD) and ideal for integration into small satellites. This camera combines flight-proven technologies and new spatial technologies to provide high-quality images in a compact volume with low power consumption.





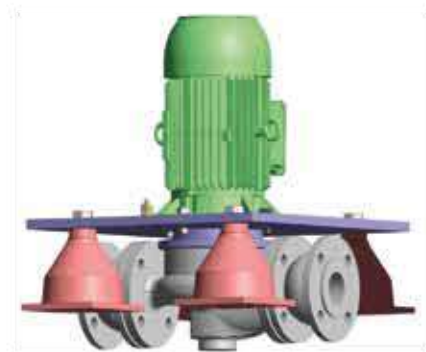
DISTANCE MEASURING EQUIPMENT - DME 0200

An air navigation aid system that contributes to greater flight safety, employing 100% Brazilian technology and used by the Brazilian Air Force to support the spatial location of aircraft. Developed by IACIT for unattended operations in remote locations, it stands out for being modular, compact, and easy to operate. Fully digital and built with state-of-the-art technology, it ensures interoperability with all radio navigation instruments available on the market. The DME 0200 can be supplied in Dual Transponder/Dual Monitor or Simple Transponder/Simple Monitor configurations.



PRESSURE PUMP FOR FIREFIGHTING - BCBF 100-2000

The ASVAC fire pumps were developed to meet the Tamandaré Project and the objective of standardizing this equipment in all other engine rooms of military ships over 60 meters in length between perpendiculars, possessing NATO registration and compliance with STANAG norms, which establish standardization among fleets.



MILITARY TACTICAL SHELTER

Military Tactical Shelters conceived, designed, developed, manufactured, and supplied by RF COM provide Monitoring, Command, and Control Operations with precision in the collection and traffic of sensitive information and the necessary mobility, as exemplified by the Shelters employed by the Brazilian Army in the Sisfron Program.





CONTAINER/SHELTER - STRUCTURED AND MODULAR MOUNTABLE

An integrated solution to house equipment, supplies, among others, with adjustable dimensions and high versatility, resistant to weather and requested stresses. Clemar Engenharia designs and manufactures with a scope focused on acoustic, thermal, ballistic, anti-vandalism properties, and rapid field integration.



MOBILE SOLAR SHELTER - M-OFFICE

A habitable module that offers comfort, security, and mobility, ideal for offices, technical rooms, or operational support in the field. It features a reinforced and climate-controlled structure, plug-and-play installation, customizable layout, and preparation for integration with sustainable energy sources, such as the Mtower Solar Generator. It can be adapted for living areas, cafeterias, dormitories, or infirmaries.

SOLAR POWER PLANT

A modular and sustainable energy solution, designed to supply clean energy with efficiency and speed of installation. The prefabricated system guarantees agile assembly, stable and monitored operation, and long durability, meeting rigorous standards of safety and reliability. Powered by solar energy, it reduces carbon emissions and contributes to environmental preservation. With versatile application, it is suitable for temporary or permanent projects, such as construction sites and isolated communities, promoting energy autonomy and sustainability.





MOBILE SOLAR GENERATOR WITH LIGHTING KIT AND MOBILE SIGNAL REPEATER TOWER AND SURVEILLANCE

A clean and intelligent energy solution, with automatic or programmable operation. It features the Brain system for efficient management and battery protection. Available in Standard versions, which illuminates up to 4,000 m², and Premium, up to 5,000 m², with a mast up to 9.0 m and an MTpower 280 Ah stationary battery bank. It meets Brazilian Army standards and can power field hospitals and living areas.

An efficient and practical solution for expanding signal coverage in remote or hard-to-reach areas. It offers expanded signal coverage for communication (voice and data); a structure mounted on a mobile platform, with easy transport and installation; power supply via a solar generator with operational autonomy and integration with different operators and frequencies.



UCB
POWER



INDIVIDUAL GENERATION SYSTEM WITH INTERMITTENT SOURCE (SIGFI)

An autonomous solar energy generation system designed for isolated locations or those without access to the electrical grid, with the aim of ensuring energy autonomy through the integration of photovoltaic modules and lithium iron phosphate (LFP) batteries, promoting a stable and sustainable supply. Composed of a solar panel, charge controller, inverter, and battery. Ideal for remote communities, field hospitals, agricultural operations, and other field applications.

FLOATATION KIT - VBTP M113BR

The floatation device for the M113BR Armored Personnel Carrier is a buoyancy device that ensures floatability in amphibious operations. Produced from lightweight and resistant material, it features an optimized design for stability and weight distribution, allowing the vehicle to safely and efficiently cross aquatic obstacles without loss of mobility or operational performance.





INDUSTRIAL 3D PRINTERS

3D printing combines precision, speed, and industrial efficiency. The Raise3D RMS220, an SLS printer, offers low-cost production with polymers like PA12, PA11, and TPU, distinguished by its compact design, 75 W fiber laser, and infrared heating system, which guarantee repeatability and quality. The Pro3 HS series, with Hyper FFF® technology, provides high speed and precision for engineering materials, with closed-loop motion control, automatic filament switching, and an RFID sensor. Both are commercialized by UP3D.



METAL ADDITIVE MANUFACTURING (FS350M AND METALFUSE) AND SYSTEM FOR ADDITIVE MANUFACTURING (FS191M)

The metal additive manufacturing systems commercialized by UP3D cater to different production scales. The MetalFuse, from Raise3D, uses metal filament printing, aimed at prototyping and small-scale productions with 316L and 17-4 PH steels. Farsoon employs LPBF technology, with a fully customizable process, and offers solutions with a 500 W laser, such as the FS350M, ideal for large parts and series production, and the FS191M, a compact and competitive solution, suitable for research and small-batch production.



RBB-175 AND RBB-360 TECHNICAL DISINFECTION AND CONSERVATION SYSTEM FOR MATERIALS

The SRC-RBB systems are sustainable and automated multidisciplinary engineering solutions, designed for the technical disinfection and conservation of military materials and equipment, with a focus on occupational safety, environmental responsibility, and ESG guidelines. They operate in conjunction with the 368 line consumables, optimizing the treatment of weaponry and extending the lifespan of equipment with high efficiency and reduced operational costs. The variations accommodate different capacities: the SRC-RBB-175 (5 rifles and 10 pistols), the SRC-RBB-360 (10 rifles and 20 pistols), the SRC-RBB-36 (2 rifles and 4 pistols), and the SRC-RBB-15 (9 pistols).





PRODUCT FOR CONSERVATION AND INCREASED LIFESPAN OF WEAPONRY - CONSUMABLE 368 FOR SRC-RBB MIL

The Consumable 368 for SRC-RBB MIL is an ecological and biodegradable product, aligned with ESG (Environmental, Social, and Governance) guidelines. Developed for the conservation and increased lifespan of weaponry and war material, it operates in SRC-RBB systems with automated, sustainable, and low operational cost processes. With CLPD function (Clean, Lubricate, Protect, Deoxidize), it provides greater efficiency, reduced obsolescence, and improved technical performance, being an input already consolidated in the military sector.



INJECTOR ELEMENT - LEOPARD CC APC

The injector element is used in the Bosch PE 10 ZWM 140/120 RS 38/11 injection pump with the RQU 425/1100 ZW 30 DR governor, utilized in the MTU 838 engine of the Leopard 1 A5 Armored Personnel Carrier (MTU). Responsible for metering and pressurizing the fuel in the injection system, it ensures efficient combustion and stable performance. Composed of a piston, sleeve, and calibrated spring, it withstands high pressures and temperatures, guaranteeing efficiency and durability for the engine.



A-29 BRAKE ASSEMBLY OVERHAUL KIT

The H8-1833-A29-KIT Overhaul Kit for the A-29 Super Tucano (EMB-314) brake assembly was developed for practical and safe maintenance, bringing together the main wear components: the Torque Plate PN H8-39.004, which ensures alignment and fixation; the Carrier Rotor PN H8-1844-ST-01, responsible for torque transmission; and the Pressure Plate PN H8-39.003, which applies the braking force. The assembly ensures performance, durability, and reliability, with reduced maintenance costs.



H8 ALS





H8 AUS

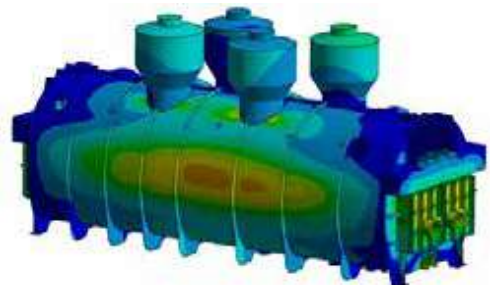


CRITICAL COMPONENTS FOR VEHICLES AND AIRCRAFT - H8-39.039-MIL, H8-39.042-MIL, DI-1833-21-OL, AND DI-2411-11-OL

Components developed for the modernization of military vehicles and aircraft reinforce national autonomy: Brake Caliper (Cascavel/Urutu), highly durable; Driving Sprocket, essential for the traction system of the Leopard main battle tank; Brake Assembly (EMB 312 Tucano), with hydraulic pistons and sintered pads from the sole national manufacturer; and Electromechanical Relay DI-2411-11-OL (Cascavel/Guarani), with high capacity and resistance.

PRESSURE VESSELS

The pressure vessels strictly follow ABNT, ASME, and DIN standards, ensuring total technical and regulatory compliance. The detailed design defines applicable dimensions, materials, welding methods, testing, and qualifications, while controlled manufacturing involves cutting, bending, calendaring, and welding. The life cycle includes revision, performance recovery, assembly, and operational qualification, ensuring performance and safety at all stages.



TRANSMISSION SHAFTS AND GEARS

Shafts and gears for transmission systems are developed with a focus on performance and reliability, following national and international standards. The process covers dimensioning, design, manufacturing, assembly, and operational qualification, ensuring technical compliance and high efficiency.





COMPLEMENTARY DEFENSE PRODUCTS

Developed with technical rigor, these systems ensure performance, integrity, and technical compliance, following ABNT, VDI 2230, and international standards. The process covers dimensioning, design, manufacturing, assembly, and operational qualification, with the application of treatments, advanced testing, and inspections—visual, liquid penetrant, ultrasound, X-ray, magnetic particle, microscopy, and torquing.



CUSTOM SPEED REDUCERS

Developed based on complete processes of dimensioning, design, manufacturing, and assembly, strictly following ABNT, DIN, and international specifications. Manufacturing involves controlled processes, application of treatments, assembly, and quality verification tests. Delivery is concluded with assembly and operational qualification, ensuring reliability, durability, and technical compliance.



PRIMARY AND SECONDARY FUEL FILTER SUPPORTS FOR THE DETROIT 6V53 ENGINE

Supports for the primary and secondary fuel filters of the Detroit 6V53 engine, used in the VBTP M113BR, ensure secure fixation, efficient sealing, and precise alignment. Manufactured from material resistant to corrosion and vibrations, they ensure the engine's durability, easy maintenance, and reliability.





BLOCK VALVES - TRUNNION BALL VALVE

Three variations of high-performance Trunnion Ball Valves are offered. The EVO Type versions (DN 20–125) operate at 35 bar, with a body made of P295GH carbon steel, internals made of CuAl10Ni5Fe4 copper-aluminum alloy, and HALAR or Belzona coating. The third version (DN 6, 32, and 65) operates at 40 bar, made entirely of CuAl10Ni5Fe4 copper-aluminum alloy, with FKM O-rings, ensuring greater resistance to corrosion, fluids, and temperature.



Micromazza



X-RAY INSPECTION SYSTEMS - SPECTRUM

Spectrum Cargo is an advanced X-ray inspection system that incorporates latest-generation artificial intelligence (AI) for automated analysis of vehicles, cargo, and containers. Its dual-energy technology offers high penetration (up to 330 mm in steel) and fast scanning, ensuring operational efficiency. The AI module processes the images to detect anomalies, classify goods, estimate weight, identify weapons and threats, count items, and recognize empty containers. The system is also capable of identifying radioactive materials and correlating fiscal data with images, increasing inspection and defense capacity. The solution ensures real-time alerts, data security, and full integration with external systems, quickly, accurately, and reliably.



UNIPOWER BATTERIES (UPLFP48-100 TL), OCE-152, T-120 AND BATTERIES FOR SUBMARINES AND DRONES

High-performance batteries encompass solutions for military, industrial, and defense uses. Produced in Brazil in different technical configurations by the companies Elo Defense, Equatorial Sistemas, New Power, Modirum, and UCB.





POWER CONVERTER FOR UNMANNED AERIAL VEHICLE (UAV)

This converter offers high efficiency, lightness, and reliability, ensuring a stable power supply to the onboard systems. Designed for severe conditions, it increases the autonomy and safety of unmanned aircraft in critical missions.



modirum | GESPI



CRITICAL EQUIPMENT PROTECTOR - ENDURANCE EPC

Ensures the supply of clean, stable, and safe power for critical electronic equipment. It acts as a voltage stabilizer in modern vehicles, ensuring stabilization, protection, and conversion of onboard systems, and preventing total battery discharge.

STEAM BOILERS

Boilers designed for use in military units, hospitals, and academies, applied in mess hall kitchens and for water heating. Available in wood-fired versions (250 to 8,000 kg/h, up to 12 kg/cm²) and gas or oil-fired versions (250 to 30,000 kg/h, up to 21 kg/cm²), they offer high thermal efficiency, robustness, and reliable operation.





INDUSTRIAL FANS

The Vesper Super Portátil 3 PE400e M2 is a blower and exhaust fan certified by INMETRO for classified areas, while the Vesper 750 TANK FAN is an explosion-proof centrifugal fan, featuring an Ex IIC motor, 250 mm ducts, and a mobile skid, ideal for the safe ventilation of tanks and platforms.



WATER HEATERS

Gas heat exchanger type water heaters for baths, with a storage tank for accumulated hot water, manufactured from carbon steel or stainless steel sheets, with capacities up to 10,000 liters.

MECANFLEX AND TUBE-AND-COUPLER SCAFFOLDING, QUIKDECK SUSPENDED ACCESS SYSTEM, AND AERIAL WORK PLATFORMS

Multidirectional Scaffolding is a quick-fit and coupling system that allows for the optimization of labor, speed, and the assembly of complex structures.

It enables assembly at various levels and directions, allowing for suspended and cantilever structures. Tube-and-Coupler Scaffolding is a galvanized steel system composed of tubes, clamps, and accessories.

Used as scaffolding, walkways, stairs, shoring, staging, and access, it adapts to various applications. The QuikDeck Suspended Access System is a modular work platform, featuring a completely flat, stable, and rigid floor, supported by chains. It has standardized toe boards and guardrails, with the possibility of assembly in any geometric shape.

Aerial Work Platforms (PTA) are pieces of equipment used to safely elevate people and tools for work at height. They replace scaffolding and ladders, offering mobility, reach, and stability.





ORGUEL

SHORING, FORMWORK, AND HOIST

The shoring system with towers and props is flexible and versatile, adapting to different projects such as beams, slabs, viaducts, and bridges. The Light Formwork, easy to handle and with various dimensions, serves various types of construction, including beams, pillars, and circular structures, with a maximum pressure of 50 kN/m². The rack and pinion hoist is a robust solution for the vertical transport of people and materials, used in civil construction and industries (mining, cement factories, refineries, and steel mills), offering high load capacity, advanced technology, safety, and easy maintenance.

ONLINE STORAGE CABINETS; GUARDIAN PICK-UP CABINET; MASTER CHAVE (MASTER KEY); TOOLKEY; A MULTI-DRAWER UNITS

Intelligent storage and control solutions with cloud management and electronic access. They include cabinets for personal or sensitive objects, key cabinets for corporate keys, and drawer units for critical items, ensuring security, traceability, and operational efficiency.



Azanonatec



RACKS; CELPOSTE (VENTILATED POLE); CLAVIUM; GUARDUS; UPS FULL IGBT - SECURITY AND SURVEILLANCE SYSTEMS

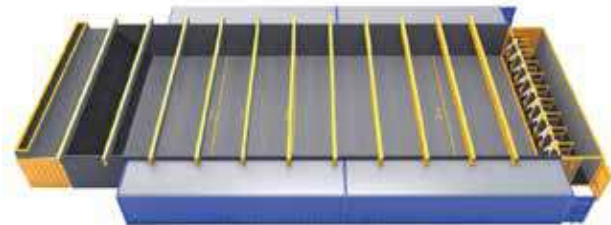
Technological solutions focused on security, power, and asset control. The Full IGBT UPS ensures stable power for critical applications; the Ventilated Pole houses equipment with security and thermal efficiency; Racks and Cabinets for Sensitive Assets offer physical protection and traceability; Clavium® controls access to corporate keys via biometrics; and the Guardus and Traxxer patrol sticks accurately record and verify surveillance activities.



CLEMAR

CONTRONICS

TekSea



SafetyWall

MODULAR BALLISTIC SYSTEM (SISMOD) AND BULLET TRAP (ELASTOSHIELD)

Patented and sustainable modular ballistic solutions for live-fire training. The ELASTOSHIELD ELS-100 is an autonomous bullet trap module that safely captures projectiles, eliminates ricochets, and allows for recycling, in compliance with NBR 15.000. SISMOD — composed of containers integrated with ELS-100 — creates modular shooting ranges with total protection, thermo-acoustic comfort, and an exhaust system, ideal for police and military training in indoor and outdoor environments.

INDOOR SHOOTING RANGE - TACTICAL RESCUE AND INTERVENTION HOUSE AND SHR (SAFETY, HEALTH AND RESPECT)

Modular and safe solutions for tactical and shooting training. The CQB system in repurposed containers allows for multi-story formations, with anti-ricochet panels, moving targets, and supervision resources, complying with NBR 15.000. SHR is a state-of-the-art indoor shooting range, featuring a technical elastomer bullet trap, climate control, exhaust, and acoustic insulation, offering maximum safety, comfort, and sustainability.



SafetyWall



REMOTE AREA CONNECTIVITY EQUIPMENT - RURALMAX® PRO

A robust connectivity solution for rural and urban areas with low data signal. With integrated octaband antennas and compatibility with all carriers, it automatically captures multiple cellular networks. Simple to install, it is ideal for hostile environments, offering protection against dust, weather, and extreme temperature variations.

NEGER
Telecom



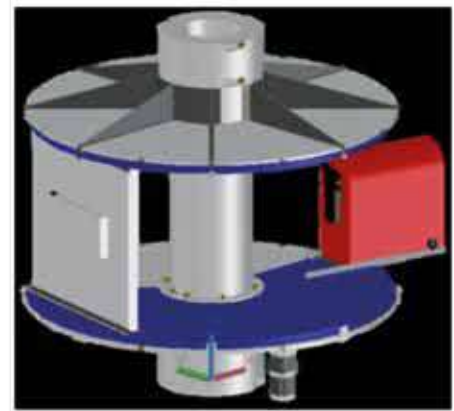
FIBER OPTIC TETRAHEDRAL GYROMETRIC BLOCK - GFOS

A three-dimensional space rotation sensor that uses rotation sensors made with Optsensys Type I, II, and III optical fiber (GFOs), with specifications for tactical and strategic applications in terrestrial, maritime, and aerospace vehicles. The Gyrometric Blocks (BGs) can be assembled with 3 GFOs (triaxial) or 4 GFOs (tetrahedral).



COMPOSITE MATERIAL ANALYSIS EQUIPMENT - TZ-TO19 TOMOGRAPH

Performs precise analyses of composite materials used in the oil and gas industry, among other sectors. Equipped with a radiation source, a high-sensitivity detector, and dedicated software, the system allows for the detailed capture and processing of images for non-destructive inspections.



ETHERNET IP/MPLS SWITCHES AND IP ACCESS ROUTERS

Offers complete connectivity solutions with its line of Ethernet switches and IP access routers. The switches, with 1GE to 400GE interfaces and DmOS operating system, serve access, aggregation, and network core applications, supporting L2, L3, and IP/MPLS functions, as well as redundancy and multiple power options. The IP Routers offer support for OSPF, BGP, IPsec, LTE, and QoS, with security features, flexible management, and high performance for corporate networks and VPNs.

DATACOM





INDUSTRIAL VACUUM CLEANERS AND CENTRAL VACUUM SYSTEMS

The solutions, compliant with NR-10, NR-12 standards, and environmental control standards, guarantee performance, safety, and durability in hostile environments. Industrial Vacuum Cleaners offer high power and efficient filtration for the removal of solid and liquid waste, while Central Vacuum Systems provide continuous suction at multiple points, optimizing the cleaning of large areas.

INDUSTRIAL COLLECTORS AND RADIAL COMPRESSORS

Industrial Collectors ensure effective control of waste and particles in industrial environments, with advanced filtration and a robust structure that ensures cleanliness, safety, and low maintenance. The brand's Radial Compressors offer continuous and stable airflow, ideal for exhaust, pneumatic conveying, and critical processes.



TekSea®

BATTERY MONITORING SYSTEM - BATTERY CHARGER RECTIFIER AND BMS

The Battery Charger Rectifier is a static converter developed for charging electric accumulators, ensuring a continuous power supply to the battery bank. Compatible with stationary, automotive, lead-acid, or alkaline batteries, it operates with vented or sealed technologies. It offers direct measurement over the cell, easy installation and configuration, as well as compatibility with thyristorized and switched rectifiers, and UPS systems.



STATIC CONVERTER - TEKPOWER TPS 48

Designed for charging electric accumulators, ensuring a continuous power supply to the system's battery bank. Mounted in a standard 19-inch rack sub-frame, it is compatible with stationary, automotive, lead-acid, alkaline, sealed, vented, or lithium batteries, offering broad application versatility.



TekSea®



TekSea®

NAVIGATION LIGHT PANEL - TEKNAV-LIGHTS NLC

An electronic system for controlling and monitoring navigation, signaling, and ceremonial lights, specially developed for vessels. Essential for maritime identification and safety, these lights indicate the direction of navigation in adverse or nighttime conditions, complying with international collision prevention regulations.

DUAL-FUNCTION PAINT - W-THANE SRD 50 AND W-POLI HPD 451

High-performance paints that serve as both primer and finish. W-THANE SRD 50 is a two-component acrylic polyurethane with anti-corrosion zinc phosphate pigmentation, offering high chemical resistance and excellent color and gloss retention. W-POLI HPD 451 is a high-solids polyaspartic paint, quick-drying and highly durable, ideal for equipment exposed to aggressive environments.



TINTAS
Weg





MULTIFUNCTIONAL CHEMICAL TREATMENT

The first periodic application multifunctional chemical treatment for diesel and biodiesel in Brazil: once every 6 months, 60,000 km, or 250 hours. Recommended for heavy-duty lines or vehicles with tanks exceeding 100 liters.

HIGH-PERFORMANCE FLEXIBLE EPOXY COATING – WRAPX® HBD 332

WRAPX® HBD 332 is a high-thickness, high-performance flexible epoxy coating, applied in a single coat, with a layer of 600 µm to 8,000 µm. It has excellent mechanical and anti-corrosion resistance, making it ideal for aggressive industrial environments. With 22% elongation, it follows the expansion and contraction of metallic surfaces, preventing cracks.



RIACHUELO CLASS SUBMARINE HATCHES

A specialized line of hatches manufactured by Cronos for the Riachuelo Class, composed of customized solutions for access, logistics, and maintenance. The offerings include: mid-ship access hatch for Riachuelo Class submarines; fixed access hatch to the resistant fresh air intake appendix (dome) of Riachuelo Class submarines; fixed equipment loading hatch for Riachuelo Class submarines; and access hatch to the lower conning tower of Riachuelo Class submarines.





METALLIC AND SEALING GASKETS, INSULATION FABRICS AND TAPES

Gaskets 9130M and 9110 combine stainless steel and flexible graphite for secure sealing at high pressures and temperatures, with the 9130M offering additional reinforcement for heat exchangers and pressure vessels. The line includes gaskets for flanges in various materials — such as graphite, metal, and PTFE — and products in special fibers for thermal insulation, protection, and naval application, ensuring durability, chemical resistance, and operational reliability.

CARBON FLEX WITH GRAPHITE - LGT GASKETS AND LGT-GRAF GRAPHITE PLATES

Carbon and Graphite Gaskets ensure high-resistance sealing in reactors, valves, and compressors, withstanding extreme temperatures, pressures, and corrosive agents with low friction and long durability. The LGT-GRAF® Flexible Graphite Plates complement this performance, offering superior sealability and thermal conductivity, even under severe chemical and mechanical conditions, with or without metallic reinforcement.



DECAGONAL RING

Made of rubber for the sprocket drive gear, it acts as a shock absorber between the sprocket wheel and the transmission assembly, reducing shock and wear. Compatible with all M113 variants and similar tracked vehicles, it is produced according to original specifications, ensuring durability, resistance to aging, and dimensional precision.



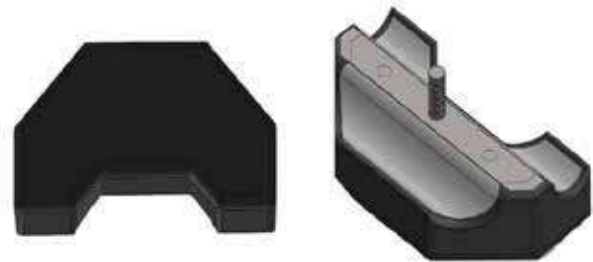
FORGED TUBE

Developed for applications requiring high mechanical resistance, durability, and operational reliability. Produced with high-performance metallic alloys, it guarantees dimensional precision, safety, and consistent performance, even under severe operating conditions. Açoforja complies with international quality and certification standards.



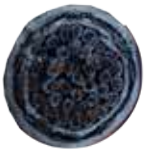
RUBBER PAD AND REMOVABLE PAD

Essential parts for the maintenance of tracked armored vehicles, both being rubber pads with the same primary function. The pad for the M109 and M992 (T-154 track) and the pad for the M113 (T-130 track) ensure friction, metallic shoe protection, and reduced wear. Manufactured from a compound highly resistant to abrasion and impact, they ensure durability, traction, and operational efficiency.



CONDUIT TUBES, FIRE FIGHTING LINE, AND FITTINGS

The complete line of fire fighting products offers robust solutions focused on safety and protection for various environments. The Açotubo portfolio includes high-quality Steel Tubes, available in various gauges and sizes that meet the most demanding market standards, in addition to Mechanical Steel Tubes, Conductive Steel Tubes (seamless and welded), and Large Diameter Steel Tubes (Tubolões). Complementing these solutions, there is also a wide range of Fittings and Flanges in carbon steel and stainless steel, essential for ensuring integration, reliability, and performance throughout the project's piping infrastructure.



SHF2 CLASS 2 POWER CABLE, SHF2 CLASS 2 SHIELDED MULTI- CONDUCTOR

Designed for the power systems of the Riachuelo Class submarines, they withstand severe maritime environments. The 3G x 1.5mm² model operates at 1kV, and the shielded 4 x 0.5mm² operates at 250V. Both use electrolytic copper, ethylene propylene insulation, and halogen-free SHF2 sheathing, with low smoke emission, high resistance to oils, corrosion, and temperatures up to 90°C.



TRAMANAV TI(SN) 90 0.6/1KV

Developed for the power systems of the Riachuelo Class submarines. It features a flexible electrolytic copper conductor, ethylene propylene insulation, and halogen-free SHF2 sheathing, with tinned copper wire shielding. It offers low smoke emission, high resistance to oils and corrosive vapors, operating up to 90°C and 1kV in a severe maritime environment.



TRAMASIL TI(SN) 200°C 500V TO 1KV

Cables for the power systems of the Riachuelo Class submarines, with electrolytic copper conductors, silicone rubber insulation, and tinned copper shielding with aramid. They offer high thermal, chemical, and mechanical resistance, operating up to 200°C and 500V to 1kV.



SERVICES

Construction, manufacturing, and modernization
Engineering and project development
C4ISR systems and cybersecurity
Logistics and operational support
Maintenance, repair, and overhaul (MRO)
Finance, consulting, and training
Quality, testing, and certifications

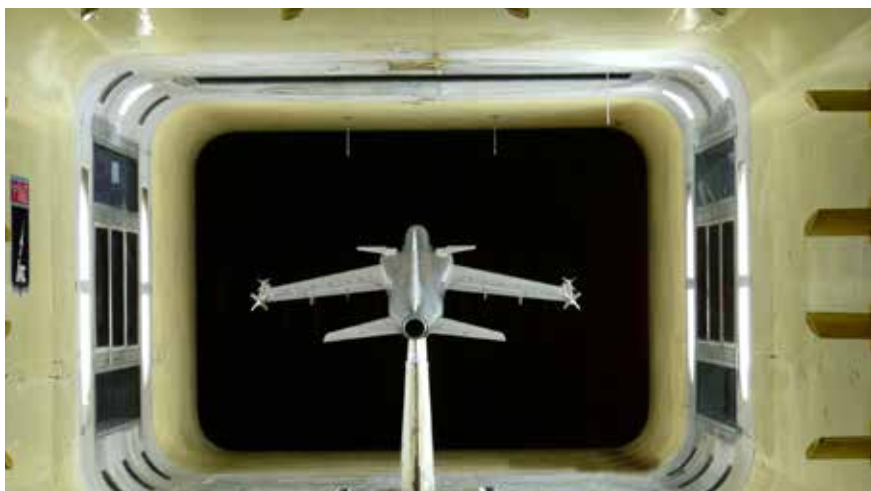


SPACE LAUNCH SERVICE

ALADA is transforming the Alcântara Launch Center (CLA) and Barreira do Inferno Launch Center (CLBI) into commercial gateways to space, offering all the ground infrastructure and operational support from the Brazilian Air Force (FAB) for the preparation, launch, tracking, and telemetry of space vehicles. The CLA and CLBI are known for their privileged equatorial location (fuel optimization) and their reliability (over 3,500 launches), in addition to guaranteeing access to 99% and 60% of commercial orbits, respectively. Furthermore, Brazil offers ideal conditions for launch operations, with a robust legal framework, technological safeguard agreements, and climatic and geopolitical stability.

COMMERCIALIZATION SERVICE FOR AEROSPACE PRODUCTS AND SERVICES

Through ALADA, companies of all sizes, from innovative startups to large corporations, have the opportunity to access an ecosystem of knowledge and technology that was previously primarily restricted to the public domain. ALADA provides access to a network of highly specialized laboratories, allowing your company to conduct everything from complex tests to research and development of new materials and systems. It also facilitates access to rigorous and recognized certification processes, as well as capacity building programs aimed at developing and enhancing professional skills in the aerospace sector and related areas, including specific training for the industry.





AEROSPACE PROJECT - RATO-14X

The RATO-14X (Rocket Assisted Take Off – 14X) aerospace project aims to develop a hypersonic acceleration rocket intended to propel the future national hypersonic vehicle 14-X. The result of a partnership between the Mac Jee Group and the Brazilian Air Force (FAB), the project represents a milestone in the advancement of propulsion technologies and hypersonic systems, consolidating the evolution of national capacity in the aerospace sector.



AEROSPACE PROJECT MANAGEMENT

Alada works in the management of complex aerospace projects, enabling the capture of resources and partnerships, in addition to monitoring progress, risks, budgets, and deadlines. Its operation promotes the strengthening of the industry and the engagement of the various stakeholders in the sector.



**SIATT**

MANSUP - SURFACE-TO-SURFACE ANTI-SHIP MISSILE - EXTENDED RANGE

This anti-ship missile is designed for surface launch, both from ships in naval combat in the open sea and from land vehicles for coastal defense, standing out for its extended range of over 200 km (beyond the horizon). Navigation is robust, utilizing the inertial system with GNSS (Global Navigation Satellite System) and pre-programmable 3D waypoints. Terminal guidance is provided by an active radar resistant to interference, incorporating artificial intelligence for target designation and execution of evasive maneuvers. The

system has capability to salvo and simultaneous attack, with a typical flight close to the surface (sea skimming) adaptable to sea state, and also capable of flying over land. It is designed to operate in adverse weather conditions, using turbojet propulsion complemented by an ejectable rocket booster. Its launch system is the same as the MANSUP, which ensures compatibility with those widely used in the market. The payload (warhead) is 150 kg, insensitive, with blast and fragmentation effects, activated by impact or proximity fuse.



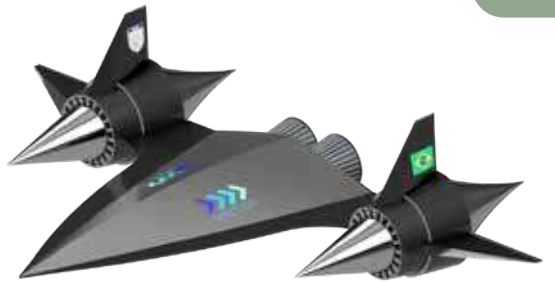
EMGEPRON



PATROL VESSEL (NPA500)

The 500-ton Patrol Vessel is an EMGEPRON project, developed to offer modernity, reliability, and efficiency in missions of Jurisdictional Waters surveillance, natural resource protection, illicit activity combat, Search and Rescue (SAR), environmental monitoring, and humanitarian aid. The vessel incorporates the vast knowledge of the Brazilian Navy in patrols in the Blue Amazon, translated into clear operational requirements, materialized in a robust engineering project, through cooperation between

EMGEPRON and the Naval Projects and Systems Center (CPSN). Versatile, the NPa500BR can serve both Brazil and partner nations seeking to reinforce maritime security. With a maximum displacement of 587 tons, a range of action of 287 MN, and an autonomy of 20 days, it ensures continuous presence in strategic areas. Designed for a 30-year lifespan, it accommodates 43 people and is certified by a Classification Society, in compliance with MARPOL standards, combining reliability, safety, and environmental respect.



VHV-17



VHV-23



VECTOR UAV PROJECT - VHV-17 AND VHV-23 AND ASPIRATED HYPERSONIC PROPULSION SYSTEM

The two models of hypersonic vehicles — the VECTOR VHV-17 and the VHV-23 —, developed by BRENG, are equipped with an aspirated hypersonic propulsion system and incorporating three innovative technologies: Waverider lift technology, Scramjet supersonic combustion engine, and laser thrust propulsion.

The VHV-17 is designed to reach speeds between Mach 10 and Mach 14, operating at altitudes from 30 to 450 km. Its performance makes it suitable both for application in Hypersonic Glide Missiles (HGM) and for space access missions, such as launching payloads into orbit.

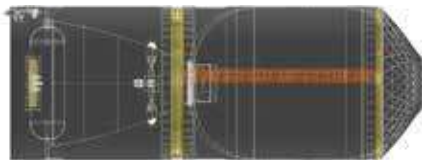
The VHV-23 reaches speeds up to Mach 7, at altitudes between 30 and 40 km. Accelerated by a rocket engine, it can be integrated into a Hypersonic Cruise Missile (HCM) and presents potential for equipping future hypersonic aircraft developments.

MICRO AND NANO SATELLITE LAUNCH VEHICLE

It is a small launch vehicle, reliable for launching CubeSats into low orbits, which is part of the Brazilian Space Program, significantly contributing to the progress of Brazil's sovereignty and prosperity in the space scenario. For this vehicle, BRENG supplies four subsystems, namely: Stage Separation Systems (SSEs), Fairing Opening System (SIAC), CubeSat Deployer, and Flight Termination System (STV). It is worth noting that the SSEs feature an innovative space-saving system and versions with reduced mechanical impacts during stage separation, and that the SIAC has an exclusive non-pyrotechnic system optimized for fairing opening.



VLPP MONTENEGRO – MKI AND MKII



The VLPP MONTENEGRO MKI is a nanosatellite launch vehicle with a capacity for payloads up to 10 kg into 400 km LEO orbits and low inclination. It uses a combination of solid propellants, similar to the S30-IAE propellant, optimized in both initial stages, and the advanced S18A solid propellant. Applications include: in-flight validation testing of technologies for larger LVs and responsive and sovereign orbital injection of 3U nanosatellites for scientific, technological, or military application.

The VLPP MONTENEGRO MKII is a microsatellite launch vehicle with a capacity for payloads up to 35 kg into 400 km LEO orbits and low inclination. It differs from the MKI by replacing the last solid stage with a liquid stage featuring a 5 kN L5K propellant, developed by the company with N_2O and $\text{Ethanol-Nitromethane}$. Applications include: in-flight validation testing of technologies for larger LVs; responsive and sovereign orbital injection of nanosatellite sets up to 24U, for scientific, technological, academic, or military application; and injection of commercial responsive payloads.





INTERMEDIATE AND HEAVY HELICOPTER LINE MAINTENANCE

Maintenance services cover different levels of complexity, including intermediate and heavy line maintenance, offering complete support to air operations. Line maintenance, performed in the short term and without the need for specific equipment or facilities, can be carried out both on the flight line and at the customer's base.

Intermediate maintenance, which requires a higher level of tools, equipment, and technical qualification, is generally performed at specialized centers. Heavy maintenance and more complex inspections can be conducted at certified maintenance centers or directly at the operator's facilities, according to operational need.

Helibras has certified infrastructure and a highly specialized technical team, prepared to attend to each service level with safety, agility, and compliance with the highest aeronautical standards.



HELIBRAS



VULNERABILITY MANAGEMENT; PRODUCT DEVELOPMENT AND ENGINEERING CAPABILITY

Akaer Engenharia is a reference in the development of aerospace and defense solutions, with prominent participation in military aircraft programs — manned and unmanned — at national and international levels.

Clavis offers the vulnerability management solution, classified as a Strategic Defense Product, which detects failures in networks, servers, and applications, prioritizes corrections based on risk, and allows for planning and monitoring of steps.



Akaer

CLAVIS



OPERATIONAL CONTROL AND FIRING SYSTEM

The SCOD, Concert Space's Operational Control and Firing System, is a multi-user control system to plan, organize, and monitor rocket launch operations at Brazilian centers, ensuring precision and final authorization of the ignition system. Its structure is adaptable for other space and military missions.



TEST BENCH

The ThinkTest® series development test bench, from Aero Concepts, has intelligent modular systems with flexible capabilities for the development of turbomachine components, such as compressors, combustion chambers, turbines, nozzles, and pumps. They can be customized for engine testing, such as performance, durability, and overhaul maintenance.

The ThinkTest® BEC Test Bench is part of the complex engine development test bench of DCTA/IAE. Aero Concepts is one of the few companies in the world capable of providing this type of product. This is the first Aeronautical Compressor Development Test Bench in Brazil, with support from FINEP, so that the FAB (Brazilian Air Force), Aero Concepts, and Brazil can have a major technological advancement within international standards in the development of turbomachines and aerospace propulsion, in addition to tests with over-speed specification.



OVERHAUL, REPAIRS, AND SUPPORT FOR TURBOPROP, TURBOJET, AND TURBOFAN AIRCRAFT ENGINES

Aeronautical engine overhaul and support services cover general maintenance, repairs, and performance monitoring for turboprop, turbojet, and turbofan engines. Solutions include field support, repairs at specialized service centers, and continuous monitoring programs, with coverage for the PT6A, PW100, and PW150A series.

CSA AeroEngines operates with national and international certifications, featuring a highly qualified team and advanced technology infrastructure, ensuring standards of excellence in serving customers in Brazil and abroad.





INSTALLATION AND INTEGRATION OF AIRCRAFT SYSTEMS, PREVENTIVE AND CORRECTIVE MAINTENANCE

The installation and integration of modifications in civil or military, fixed-wing or rotary-wing aircraft is of fundamental importance. Avionics Services is recognized for excellence in this type of work, possessing appropriate tools and testing and verification equipment. The company also performs on-demand services for third parties, including preventive and corrective maintenance.



HELICOPTER MODERNIZATION AND RETROFIT

A helicopter can have multiple “lives,” adapting to new needs and expectations. Helibras offers high-quality modernization and retrofit solutions that allow for the updating of aircraft in operation. The company also develops customized kits according to the serial number and configuration of each helicopter, delivered with certified technical documentation.

Practically any aspect can be enhanced — from accessories and external loads to cabin systems and landing gears — based on a catalog of over 150 certified solutions. The standardization of these services reduces deadlines, increases competitiveness, and optimizes maintenance.

HELIBRAS





AVIONICS RETROFIT FOR PANEL MODERNIZATION

Retrofit solutions promote the complete modernization of aircraft panels, raising the standards of safety, reliability, and technological integration. The process involves replacing analog systems with latest-generation digital avionics, such as Garmin G600 TXi, GTN Xi, and GFC 600 autopilot, in addition to integrating advanced features such as TCAS II, Stormscope, and satellite communication. TAM Aviação Executiva offers complete and customized solutions, ensuring optimized performance and compliance with the most rigorous aeronautical standards.

CESSNA CARAVAN MAINTENANCE

Complete maintenance of Cessna Caravan aircraft is carried out in accordance with RBAC 145 requirements, ensuring high availability and operational safety. The service covers scheduled and unscheduled maintenance, 24-hour Technical Operational Support (ATO), Technical Maintenance Control (CTM) with ADs, SBs, and database management, in addition to the supply of original parts and the administration of approved subcontracting. TAM Aviação Executiva is responsible for executing these activities with a focus on regulatory compliance, traceability, and rapid response to AOG situations, fully meeting the demands of Public Administration and civil operators.



MODERNIZATION OF ARMORED VEHICLES AND AIRCRAFT

The modernization of the armored vehicle includes the replacement and updating of critical systems, enhancing performance and ensuring capabilities compatible with current and future combat scenarios. The same technological commitment guides the revitalization project of the wings of the P-3AM Orion aircraft, originally designed in the 1950s, whose structural intervention extends its useful life by about ten years, ensuring continuous reliability and operational efficiency.





ENGINEERING PROJECTS IN TURBOMACHINERY AND THEIR TECHNOLOGIES

Engineering projects in turbomachinery and their technologies are of extreme importance to the defense sector. Turbomachine's service portfolio covers the design of test benches for turbines, the development of fuel pumps and lubrication systems with COTS components, and the execution of tests on aeronautical engines of up to 1,500 lbf of thrust on its own test bench. Engineering projects applied to turbomachinery are also carried out, including the development of turbines for propulsion and power generation, customized according to the needs of each client, as well as the design and development of dedicated hardware and software. The company has modern laboratory infrastructure and a highly qualified team, offering tailor-made solutions of high performance and reliability, which contribute to the strengthening of national technological autonomy and the advancement of the Defense Industrial Base.



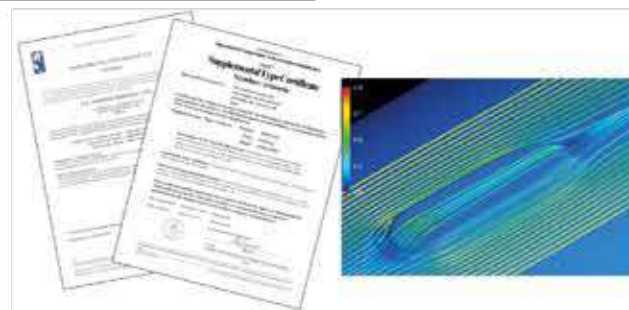
COOPERATION AND DEVELOPMENT OF HIGH-TECHNOLOGICAL COMPLEXITY AERONAUTICAL PROJECTS

The development of the TAI Hürjet Program counts on the participation of Akaer, responsible for executing structural analyses and precision calculations applied to the central and rear sections of the jet's fuselage. The company's performance ensures high technical rigor and reliability in advanced engineering, reinforcing its specialization in cutting-edge technologies for the aeronautical sector.



ENGINEERING PROJECTS AND CERTIFICATION PROCESS

The aeronautical certification service covers all stages of the process, from initial research, project design, and technical documentation preparation to the integration of embedded systems and the presentation of final reports to competent authorities, such as ANAC and IFI/CTA. The activity is conducted by a highly specialized team, composed of aeronautical and electrical engineers, with expertise in certification projects for systems and equipment applicable to civil and military aircraft in Brazil and abroad, in compliance with international regulations from agencies such as the FAA and EASA.





SATELLITE COMMUNICATION ANTENNA

The Ka-band satellite communication antenna provides beyond line of sight (BLOS) connectivity with high efficiency, utilizing electronic beam steering for precise scanning. Compatible with GEO, MEO, and LEO satellites, it features low aerodynamic drag, making it ideal for mobile platforms in challenging environments. It follows MIL-STD-810H and MIL-STD-461G standards, and is suitable for military operations, Search and Rescue (SAR) missions, and communications in remote regions.



RIOT CONTROL VEHICLE - RIOT

Designed for riot control and public safety operations, the anti-riot vehicle is mounted on a 4x4 chassis and offers high mobility, power, and stability in hostile environments. The Level III armored cabin accommodates up to five occupants and is equipped with an air conditioning system, 360° overhead vision, and protective sprinklers. The carbon steel water tank, with a capacity of 6,000 liters and internal baffle, integrates foam and additive reservoirs. The pumping system, driven by an independent engine, feeds the frontal and roof monitors, as well as the protection nozzles and the chemical agent mixing system.

The aluminum body features a superstructure with ventilated compartments, LED lighting, and a frontal hydraulic "track-clearer" platform for clearing roads. The assembly guarantees robustness, efficiency, and protection, combining integrated resources for suppression, dispersion, and defense.

RAPID RESPONSE VEHICLE FOR CALAMITIES

The Rapid Response Vehicle for Calamities was developed to guarantee operational autonomy in difficult-to-access areas, offering immediate support in emergency situations. Equipped with the WTC5000 UF purification system, with a flow rate of 5,000 L/h, it is capable of purifying water from rivers and lakes, ensuring supply in critical conditions.

The standard version includes a rear crane, generators, tanks, and rescue kits, and can be customized according to the type of mission. The assembly provides efficiency, self-sufficiency, and complete logistical support, meeting the demands of humanitarian, environmental, and civil defense operations.





DEVELOPMENT AND CUSTOM PRODUCT MANUFACTURING

The defense industry develops custom products to meet the specific requirements of each project, including LED lighting, security, surveillance, control, and climate control systems. These solutions are integrated into high-complexity aeronautical and industrial projects, ensuring performance, reliability, and compliance with international standards. Avionics Services currently supplies more than 70 products to OEMs such as Embraer and Airbus, reinforcing its role in the aerospace and defense sector.



AVIONICS[®]
services
COM V655.01/AAAC



MAINTENANCE OF THE MIT AND RECOVERY AND REVITALIZATION OF SUBORBITAL LAUNCH VEHICLES

Services that ensure full operational readiness. The scope includes the maintenance of the Mobile Integration Tower (MIT) systems, used in space launches at the Alcântara Launch Center, as well as launcher recovery and revitalization services. Mid-life studies for structural diagnosis of large mobile platforms are also carried out, with the aim of defining the necessary level of revitalization, and maintenance of systems and subsystems of the Suborbital Vehicle Manufacturing Unit, such as the propellant plant of DCTA/IAE-UCA.



INSTALLATION - OF ILS, DVOR, AND AERONAUTICAL TELECOMMUNICATIONS SYSTEMS - VHF, UHF, AND DGPS

Complete services for the supply, implementation, and certification of navigation aid and communication systems at civil and military airports ensure operational safety and regulatory compliance. Activities cover all project stages, from field survey (Site Survey) and preparation of technical designs, to the execution of civil, electrical, and electronic infrastructure. They also include the installation and assembly of towers and antennas — frangible and non-frangible — for Instrument Landing Systems (ILS), assembly of counterpoisers, shelters, and antennas for navigation and approach systems, in addition to the installation of electrical panels, UPS, rectifiers, and racks for communication systems between aircraft and control centers. The process also includes configuration, alignment, and testing, with the preparation of PRE-SAT documentation, commissioning, and monitoring of calibration flight, ensuring the precision necessary for equipment certification. The high-precision engineering and the technical team at AIRNAV guarantee the safe and efficient implementation of critical aeronautical systems, strengthening the national air navigation infrastructure.

AIRNAV
Engenharia, Consultoria e Participação Ltda.





NEGER
Telecom

PROTECTION OF AIRSPACE AGAINST UNAUTHORIZED DRONES - DRONECONTROL

Airspace Protection Services against Unauthorized Drones are offered on demand by the DroneControl® platform, ensuring security and control in sensitive areas. The service allows for early detection of threats, localization of drones and pilots, in addition to the identification of model and serial number with high precision. The solution enables the blocking, interception, and capture of hostile drones, and can be contracted by the hour, day, or month, according to the operational need. Neger® is a Brazilian technology-based company, a leader in spectral intelligence, specializing in advanced airspace protection and monitoring solutions.

DEVELOPMENT SERVICES FOR NAVIGATION, GUIDANCE, AND CONTROL SYSTEMS FOR LAUNCHERS, MISSILES, AND DRONES

Complete and tailor-made solutions according to the needs of each project. The work covers all stages, from simulation and algorithm development to electronic design of processors, interfaces with sensors and actuators, in addition to software creation and validation. Software In The Loop (SIL) and Hardware In The Loop (HIL) tests are performed, ensuring the precision and applicability of the systems to the specific mission. Horuseye Tech has advanced resources and technical domain in the involved technologies, and can integrate equipment from different suppliers to ensure operational performance and compatibility.



HORUSEYE TECH
Fornecedores de Sistemas Ltda.



NEGER
Telecom

FIXED ALERT SYSTEM IN REMOTE AREA (SAFAR)

The system aids in monitoring risk areas and preventing tragedies in environmental disasters, issuing evacuation alerts even without electricity or cellular network signal. Equipped with satellite transmitters, batteries, solar panel, and controller, it emits audible alerts and light signals with a range of up to 1 km. Its communication is highly reliable, with low energy consumption and algorithms that ensure operation even in severe environmental conditions.



MAINTENANCE OF TELECOMMUNICATION SYSTEMS, NAVIGATION AIDS, AND METEOROLOGICAL SYSTEMS



Essential service for maintaining the operability of the country's airport systems, AIRNAV provides continuous logistical support services, covering preventive, corrective (scheduled and unscheduled) maintenance, technical support, maintenance evaluation, and extra maintenance. Activities include telecommunication systems (VHF, recorders, audio consoles, ATIS), air navigation aids (ILS/DME, DVOR/DME, NDB, RADAR), and meteorological aids (EMS classes 1, 2, and 3, and EMA). With high-precision engineering and a certified team, the company ensures operational availability, technical reliability, and excellence in aeronautical safety, contributing to the strengthening of Brazil's defense infrastructure and airspace control.



CONSTRUCTION AND INSTALLATION OF ENERGY SYSTEMS FOR AIRPORTS

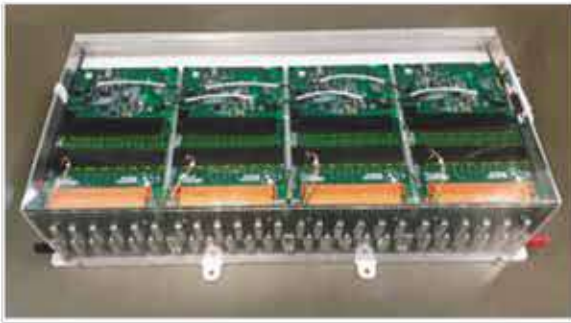
The service aims to ensure a stable and secure energy supply for the various airport facilities and equipment. It covers field survey, project preparation, execution of civil works, electrical assembly, and installation of remote substations intended for radars, telecommunications aids, navigation, and meteorology. It also includes the laying of power cables, optical fiber, and communication cables, as well as the installation of transformers, low and medium voltage electrical panels, motor-generators, UPS, uninterruptible power supplies, and rectifiers, in addition to the implementation of automation and electronic management systems.



DESIGN, INSTALLATION, AND ASSEMBLY SERVICE FOR INFRASTRUCTURE FOR CRITICAL SYSTEMS

Engineering services involve the management, design, execution, and maintenance of mission-critical facilities aimed at controlling and defending the air, land, and sea spaces. They include civil works, electrical installations, emergency power systems, precision climate control, asset security, automation, and embedded solutions, such as shelters and mini data centers. They ensure high availability, reliability, and support for strategic defense and control operations.





NANOSATELLITE CONSTELLATION PROJECT

The project is focused on Earth observation and secure communications, integrating national high-precision technologies in electronic processing, optical payloads, and X-band transmission. This innovative solution enables real-time monitoring of specific terrestrial quadrants, determining the frequency, times, and ideal coverage conditions for each area. The application includes support for defense operations, logistics, agriculture, and environmental management, strengthening the operating country's autonomy and space sovereignty.



DESIGN OF COMPLETE SPACE SYSTEMS (DESIGN OF COMPLETE SPACE SYSTEMS)

The design of complete space systems involves the integral development of orbital missions, with solutions ranging from conceptual studies and mission analysis to assembly, integration, testing, and in-orbit operation. This work, conducted with excellence by Visiona Tecnologia Espacial, includes satellite assembly, integration, and tests (AIT); integration with launchers and LEOP (Launch and Early Orbit Phase) services, in-orbit acceptance, and end-to-end testing; in addition to mission analysis and specifications of space systems. It also includes systems engineering and satellite subsystems—such as structures, thermal control, electrical, telecommunications, attitude control, and propulsion, as well as the development and maintenance of the ground segment, satellite telecommunications networks, and mobile and fixed satellite terminals.

SATELLITE TRACKER - METROSAT

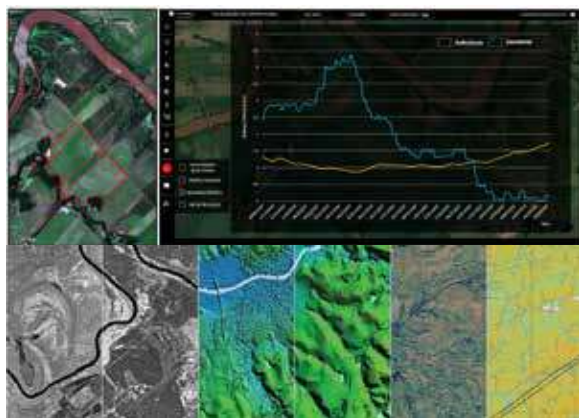
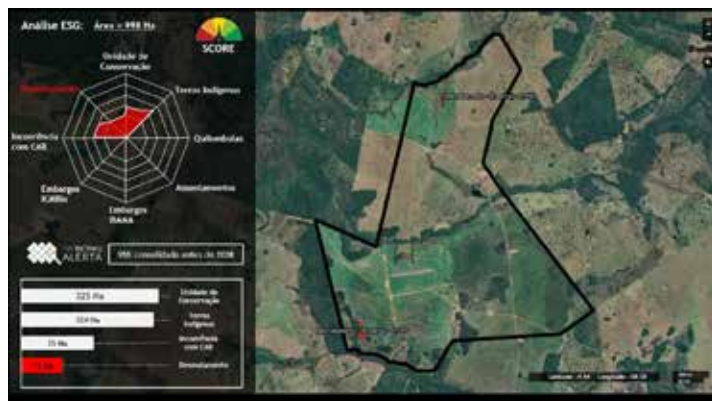
The MetroSat® allows tracking across the entire national territory, including regions without cellular coverage, thanks to 100% satellite communication. Operating in the cloud, the system offers continuous monitoring with the creation of alerts, electronic fences (geofences), and reports accessible via the internet, in addition to automatic alarms and a motion sensor. Its versatile technology enables applications in various sectors, such as maritime, fluvial, oil, gas, energy, mining, and agriculture, guaranteeing connectivity and control in any operational environment.





ON-DEMAND REMOTE SENSING PLATFORM - WEBVIS

The WebVis platform provides on-demand remote sensing products, allowing access to high and ultra-high resolution satellite imagery from various sensors and global providers. The system offers different viewing options, including streaming and download, tailored to the needs of each user, ensuring continuous updating and worldwide coverage in obtaining orbital data.



SPECIALIZED TECHNICAL SERVICES IN GEOTECHNOLOGIES

The specialized technical services in geotechnologies cover optical and radar orbital remote sensing, geographic information systems (GIS), digital cartography, and global positioning (GPS), applied to sectors such as defense and security, oil and gas, environment, energy, agribusiness, forestry, and mining. The activities include target detection, generation of digital terrain models (DTM), thematic and topographic mapping, in addition to the development of systems for visualization and analysis of geoinformation.



INTELLIGENT MONITORING - SOLUTION FOR DEFENSE AND SECURITY

The Intelligent Monitoring developed by ALTAVE is a solution aimed at Defense and Security. Based on Artificial Intelligence, the system transforms camera data into operational information, enabling the protection of sensitive perimeters and assets. It offers continuous detection of ground (people and vehicles) and aerial (drones and aircraft) intrusions, monitoring in large areas and remote locations using tethered balloons or towers, with infrared and night vision, in addition to automatic real-time alerts that enhance situational awareness and expedite decision-making. The technology has proven performance in operations conducted by the Brazilian Army and Military Police forces.




HELIBRAS


TRAINING (INITIAL AND RECURRENT) FOR FLIGHT CREW WITH SIMULATION TOOLS (H225/H225 M FFS)

The quality of training is directly related to the proficiency of pilots and crew, as well as the ability to safely operate the aircraft in a wide range of conditions and missions. Helibras offers complete training solutions — from initial training to periodic recurrent programs — including type rating and mission training (SAR, NVG, among others) for pilots, mechanics, and other aircrew. In addition, the company has a Simulator Center in Rio de Janeiro, equipped with an H225/H225M Full-Flight Simulator (FFS). The main simulation tools implemented by Airbus Helicopters are static flight procedure navigation training (FNPT) and dynamic training in full-flight simulator (FFS), both contributing to a more realistic and safer instruction experience.

EMERGENCY PROCEDURE TRAINING (EPT) IN AS350 AIRCRAFT - ESQUILO

EPT ensures the development of the proficiency needed to execute safe landings in situations of engine or essential flight system failure. During the training, the instructor guides the aircraft into conditions that simulate real emergencies. The maneuvers include failures of the hydraulic system, governor failure, tail rotor pitch control failure, and autorotations in different flight regimes, all finalized with the complete landing of the aircraft. In autorotations, the flow lever is positioned outside the “flight” configuration.


efai


TRAINING AND QUALIFICATION FOR FLIGHT CREW OF ATR 42-500, EMB120, JET TRAINING AND SDEA EXAMS

The training and qualification of flight crew are of fundamental importance for the aeronautical sector. The EPA Training Center operates ATR 42-500 (level C) and EMB-120 Brasília flight simulators, being a reference and standing out as the only Type Rating Training Organization – Part 142. The center also offers courses directed at pilots preparing for airlines and administers the SDEA exam (English proficiency), accredited by ANAC.

EPA




TRAINING AND QUALIFICATION FOR FLIGHT CREW OF ERJ-140, ERJ-135 AND EMB-135BJ

The Full Flight Simulator, qualified as Level D, is used for training on the ERJ-140, ERJ-135, and EMB-135BJ (Legacy 600 and 650) models. The EPA Training Center is the only center for flight crew training and qualification in Latin America that operates the ERJ-145 simulator and its variants.



TRAINING AND QUALIFICATION FOR OPERATION OF TT&C STATIONS FOR SATELLITE AND SUBORBITAL VEHICLES

Training and qualification focused on the operation of TT&C Stations for satellite and suborbital vehicles, covering the respective Flight Termination Systems and Telemetry Stations for the acquisition and processing of satellite images used in Remote Sensing.



INTERFERENCE-IMMUNE COMMUNICATIONS

Signal jamming by criminals constitutes a significant threat to perimeter security and cargo and valuable transport operations, potentially compromising the functionality of alarm and tracking systems. Based on advanced radio frequency engineering techniques, NEGER® develops systems capable of detecting hostile jammers and ensuring emergency communications immune to interference.

These systems are composed of compact active sensors with anti-jamming technology, which maintain connectivity even under deliberate attempts at signal suppression, guaranteeing continuous and secure operation.





INSTALLATION AND MAINTENANCE OF TELEMETRY STATIONS AND FLIGHT TERMINATION SYSTEMS FOR SATELLITE AND SUBORBITAL VEHICLES



Systems responsible for the control, tracking, and operational safety of satellite and suborbital vehicles. The activities involve the implementation and maintenance of TT&C (Telemetry, Tracking, and Command) stations and satellite image reception and processing stations, ensuring precision, continuity, and reliability in aerospace operations.

SPECTRAL INTELLIGENCE - EXPECTRA

Without interfering with cellular networks or the content of transmissions, Expectra® detects and alerts on the improper use of mobile phones, electronic tags, and two-way radios within pre-defined areas. The system enables the preventive monitoring of fraud and unauthorized communications, the definition of security perimeters for observing radio frequency activities, in addition to sending real-time alerts and generating consolidated reports by hour, location, and operator. Highly adaptable to civil, corporate, and defense environments, Expectra® is a robust solution for financial institutions, testing centers, prisons, security agencies, and critical facilities, ensuring control, traceability, and operational reliability without compromising the integrity of communication networks.



MID-LIFE ANALYSIS OF TT&C STATIONS AND TELEMETRY STATIONS

The mid-life analysis of TT&C and telemetry stations comprises the complete technical assessment ("site survey") of the civil, electrical, and communication infrastructure, in addition to checking for electromagnetic interference. The service ensures the ideal conditions for the installation and operation of tracking, command, and flight termination stations, as well as for telemetry stations focused on remote sensing, guaranteeing performance, reliability, and operational compatibility.





TECHNICAL ASSESSMENT SERVICE FOR GROUND, ELECTRICAL INFRASTRUCTURE, COMMUNICATION, AND INTERFERENCE

The mid-life analysis service for TT&C Stations and Telemetry Stations focused on remote sensing aims to assess the performance and durability of the installed systems. The activity offers specialized technical support to inform decisions about repairs, replacements, and upgrades, ensuring the operational continuity and efficiency of the ground stations.



INSTALLATION, TRAINING, AND SUPPORT SERVICE FOR THE DEFENSE STRATEGIC PRODUCT (PED) UNIFIED COMMUNICATION SYSTEM - UNA

The service ensures the implementation and continuous operation of an integrated communication infrastructure aimed at defense and security applications. Classified as a Defense Strategic Product (PED) by Ministry of Defense Ordinance GM-MD No. 3,896, of September 21, 2021, the UNA system guarantees full availability and operational readiness, offering reliable performance in critical missions and high-demand environments.



digitro.



RECOVERY SERVICE FOR THE ALLISON TX-100 TRANSMISSION AND TRANSFER CASE USED IN THE VBTP M113BR

Specialized technical service focused on the recovery of the Allison TX-100 automatic transmission and the transfer case used in the M113BR armored personnel carrier (VBTP M113BR). The process involves complete disassembly, detailed inspection of components, replacement of worn parts, cleaning of systems, repair of hydraulic assemblies, and performance of functional and leak tests. These steps ensure reliable performance, high durability, and extension of the powertrain's service life.





ELECTRONIC HARDWARE PROJECTS THAT MEET THE MIL-STD-810H STANDARD

Development of electronic hardware in compliance with the requirements of the MIL-STD-810H standard, ensuring robustness and reliability in demanding operational environments. The embedded software is designed independently of proprietary platforms or operating systems, guaranteeing flexibility, interoperability, and adaptability to different applications.

Activities encompass the modeling of dynamic systems, as well as the synthesis of control and guidance laws applicable to missiles, munitions, and space vehicles. They also include the specification, structuring, and implementation of laboratories dedicated to hybrid simulation and the execution of high-precision environmental tests, ensuring consistent performance and adherence to rigorous technical and quality standards.

SYSTEMS, STUDIES, AND DATABASES RELATED TO LIFE CYCLE MANAGEMENT (LCM) AND INTEGRATED LOGISTIC SUPPORT (ILS)

Systems and studies focused on Life Cycle Management (LCM) and Integrated Logistic Support (ILS) ensure the maintenance and operational availability of vessels, contributing to the efficiency and sustainability of naval projects. They encompass reliability analyses (FMECA, RCM), technical training, logistics processes (PHS&T), and life cycle cost assessment.



CONFORMITY ASSESSMENT OF ARMY CONTROLLED PRODUCTS

Systems and studies focused on Life Cycle Management (LCM) and Integrated Logistic Support (ILS) ensure the maintenance and operational availability of vessels, contributing to the efficiency and sustainability of naval projects. They encompass reliability analyses (FMECA, RCM), technical training, logistics processes (PHS&T), and life cycle cost assessment.



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ELEMENTAL ANALYSIS (ONH), INDUCTIVELY COUPLED PLASMA (ICP) ANALYSIS, AND CHEMICAL ANALYSIS BY OPTICAL EMISSION SPECTROMETRY

Service focused on material characterization and quality control. Two complementary instrumental analytical techniques are used: elemental analysis (ONH), which determines with high accuracy the content of oxygen, nitrogen, and hydrogen in metallic materials; and inductively coupled plasma (ICP) analysis, which identifies and quantifies the concentration of chemical elements in different matrices, with sensitivity ranging from parts per billion (ppb) to parts per trillion (ppt).

WEB 3.0 SECURITY - EVERBLOCK

Solution aimed at Defense in scenarios of information warfare and cyber investigations. Featuring Self-Custody of Information technology based on blockchain and IPFS, it ensures decentralized storage, integrity, and confidentiality of sensitive data. The system offers immutable registration, advanced encryption, secure tactical messaging, and granular access control, ensuring data sovereignty and high availability. The 4Registry solution ensures the authenticity of digital evidence, being essential in military cybersecurity, asset tracking, and transparency in acquisition processes. With ISO 27001 and Tier III certified infrastructure, it delivers maximum security, compliance, and operational resilience.



TS4
TEC SKILLS FOR



WEB 3.0 AUDIT AND COMPLIANCE - SMARTZATION

Solution aimed at the auditing, monitoring, and protection of blockchain networks and Smart Contracts. The platform combines cutting-edge technologies and AI-based tools to detect vulnerabilities, prevent cyber threats, and protect critical digital assets. The solution ensures the reliability, integrity, and compliance of digital transactions.



TS4
TEC SKILLS FOR





ADS-B STATION SERVICE

Designs all assemblies, subassemblies, systems, processing unit, receiver, 3G antenna, GPS antenna, Tx site monitor, Mode S Channel 1 antenna, Mode S Channel 2 antenna, central processor, switch, concentrators, and equipment software. Implements the system on-site with all assembly items and aggregated equipment.



ON-DEMAND ASPIRATION SOLUTIONS

Solutions developed to meet the operational and logistical demands of military missions and facilities. The systems ensure efficiency in collecting waste, dust, and particles in industrial and maintenance processes, contributing to troop safety, environmental hygiene, and operational performance. Designed for integration into new or existing systems, they stand out for their robustness, versatility, and compliance with NR-10 and NR-12 standards, in addition to military standards for reliability, discipline, and environmental control.

GENERAL USE OPAQUE ARMOR - BLDE013P AND NEOFLEX PANTHER

The general-use opaque armor BLDE013P and NEOFLEX PANTHER ensure versatile application for vehicles, vessels, aircraft, and architectural structures, as well as advanced ballistic protection, through different material technologies. The Ultra-High Molecular Weight Polyethylene (UHMWPE) armor is formed by films of unidirectional parallel filaments, impregnated with resin and pressed into panels, for 7.62x51 mm FMJ M80 and 5.56x45 mm FMJ SS92/M193, at protection level III + PA2. NEOFLEX PANTHER is a lighter and more flexible ballistic protection material. A patented composite, constructed by multiple layers of aramid fabric impregnated on both faces with NeoFlex® rubber, it provides flexibility and lightness for 9 mm and .44 Mag SWCGC, at protection level III-A.





SPECIALIZED LOGISTICS IN DEFENSE PROJECTS: CUSTOMS CLEARANCE OF PCE, SPECIAL CUSTOMS REGIMES AND TRANSPORT OF CLASS 1 EXPLOSIVES

Operations dedicated to defense products, with door-to-door tracking and total project traceability. Services include international logistics, transit licenses, customs clearance, and management of Special Customs Regimes (Drawback, Temporary Admission, and Customs Warehouse). Technical consulting applied to the Defense Products Catalog and the New Import Process. Execution of special IMO Class 1 projects, with Charter and Part Charter options. Customized logistics flows, continuous monitoring, and full adherence to regulations, ensuring operational precision, integrity, and compliance at all stages.



DEFENSE AND SECURITY CARGO LOGISTICS AND DOMESTIC LOGISTICS

The Defense and Security Cargo Logistics service, combined with Domestic Logistics, provides complete solutions in export, import, and internal logistics. Operating across road, air, sea, fluvial, and rail modalities, it ensures operational efficiency and security at all stages of the logistics process.

Solutions offered include bonded and general warehousing, lifting and crane operation, port handling and operations, courier, in addition to the transport of fractional, indivisible, super-heavy, and oversized cargo. Specialized services for technical packaging, industrial removal, cargo insurance, customs clearance, and customs consulting are also provided, complemented by logistics engineering projects that guarantee integration, reliability, and performance in every operation.

EXPORT AND IMPORT SOLUTIONS, ROAD TRANSPORT, INTEGRATED LOGISTICS, AND COMMERCIAL AND INTERNATIONAL PROMOTION

Integrated logistics (door-to-door) and foreign trade services ensure efficiency, security, and compliance at all stages of international operations. The process covers everything from collection at origin to delivery at the final destination, with complete management of logistics, documentation, licenses, and special customs regimes, such as Drawback. This integrated structure guarantees operational fluidity and legal compliance in imports and exports.

Specialized in sensitive, dangerous, and controlled cargo, M&K offers multimodal transport—air, sea, and land, customs brokerage, certified warehousing, and insurance, ensuring punctuality and traceability through its own fleet and team. In international commercial representation, it connects companies to strategic suppliers and partners, conducts market research, identifies opportunities, and offers regulatory and customs support, promoting sustainable and competitive business in the global scenario.





WEB PLATFORM FOR PSYCHOSOCIAL RISK ASSESSMENT AND DIGITAL TOOL FOR BEHAVIORAL MONITORING

Patented technology that uses personalized links for filling out assessment protocols, enabling the mapping of risks, impacts on mental health, and organizational climate. Featuring a census methodology and technical support for total engagement, it generates analytical reports with risk identification and AI-driven action plans, promoting healthier, safer, and more productive environments.

Behavioral monitoring platform with predictive analysis powered by machine learning, aimed at high-risk missions and emergencies, which strengthens the safety, health, and resilience of operational teams.



POLAR SAPIENS

AMAZUL KNOWLEDGE MANAGEMENT METHODOLOGY

The Methodology constitutes a structured model, institutionally developed and nationally recognized, which organizes practices, processes, and tools aimed at identifying, mapping, protecting, registering, and sharing critical knowledge relevant to the execution of the company's strategy. Its application includes stages of gap diagnosis, mapping of knowledge and competencies, treatment of risks associated with knowledge loss, and creation of accessible repositories, promoting the preservation of organizational memory, the dissemination of best practices, and the valorization of intellectual capital.



POLAR SAPIENS

SAFE BEHAVIOR PROTOCOL IN BIOSECURITY AND BIOPROTECTION

Integrated solution for decision support and rapid response to critical incidents, which includes training and physical and mental assessment tools. Aimed at increasing the self-sufficiency of teams, it promotes accident prevention, cost reduction, and strengthening organizational resilience.



**PROJECT
FINANCE**



**INVESTMENT
FUNDS**



**SPECIALIZED
FINANCIAL
CONSULTING**



DefenseBank



PROJECT OPERATIONS STRUCTURES, INVESTMENT FUNDS, AND FINANCIAL CONSULTING

The Defense and Security sector relies on DefenseBank as a financial agent specialized in financial operations, investment funds, and consulting services. The institution supports companies in the Defense and Security Industrial Base, as well as foreign governments, in enabling the export of Defense Products and Strategic Defense Products. With customized operations, compatible terms, risk mitigation, and regulatory compliance, it offers financial sustainability and international competitiveness.

INTERNATIONAL TECHNICAL AND COMMERCIAL REPRESENTATION

International technical-commercial representation covers American and European companies specializing in the manufacturing of ground stations, subsystems, and flight termination systems aimed at the aerospace and defense sectors.



LUNUS
COMÉRCIO E REPRESENTAÇÃO



INTERNATIONAL BIDDING CONSULTANCY

Consultancy service for foreign companies in bidding processes and commercial activities in Brazil. Given the specificities of the national regulatory environment, characterized by complex and distinct public procurement processes compared to other countries, VSK provides its own legal and accounting structure.





TECHNICAL SPECIFICATION OF UNIFORMS AND LABORATORY TESTING OF UNIFORMS

Specialized service in the development of technical specifications for uniforms, focusing on improving protective features, incorporating advanced textile technologies, and creating optimized designs. The activity includes detailed planning of the manufacturing sequence and the construction of prototypes intended for functional and ergonomic testing. The result is uniforms adapted to specific conditions of use, designed to meet the highest standards of quality, comfort, and performance required by the Armed Forces and strategic sectors.

Service focused on the development of technical specifications for uniforms, focusing on improving protective features, incorporating advanced textile technologies, and applying optimized pattern designs. The process includes defining the manufacturing sequence and the production of prototypes intended for functional and ergonomic testing, ensuring performance, comfort, and quality in compliance with operational requirements.



SENAI CETIQT



CONCEPTION OF THE CONVENTIONALLY ARMED NUCLEAR-PROPELLED SUBMARINE

The conceptual design project for the Brazilian nuclear-propelled submarine represents the development of the country's first conventionally armed nuclear submarine, the SN-BR "Álvaro Alberto." Integrated into the Submarine Development Program (PROSUB), the project aims to strengthen national defense and ensure sovereignty in Brazilian jurisdictional waters, expanding capabilities for deterrence and denial of sea use. The adoption of nuclear propulsion provides significantly superior endurance, allowing for long periods of submerged operation, in contrast to conventional submarines, and grants the country a strategic asset of high relevance.



DESIGN OF ASSEMBLIES, SUB-ASSEMBLIES, SYSTEMS, AND THE IN-MAST SIPPING ASSEMBLY (NUCLEAR INSTRUMENTATION)

Capability to design, implement, and adapt the In-Mast Sipping assembly, including material characterization and evaluation via industrial tomography and X-rays, in addition to nuclear instrumentation. It includes preventive and corrective maintenance, software updates, equipment replacement, and complete support throughout the system's life cycle.



TIZION
TECHNOLOGY





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TESTS ACCORDING TO SENASP TECHNICAL STANDARD NO. 006/2022

Applicable to light vehicles used in public security, the tests cover performance and safety parameters, including acceleration, tires, braking, obstacle crossing, slalom, urban circuit, fuel consumption, and dimensions.

IMPLEMENTATION AND MAINTENANCE OF TELECOMMUNICATION SYSTEMS (FIBER OPTIC AND RADIO) AND MAINTENANCE OF BORDER PUBLIC TELEPHONES

The implementation and maintenance of telecommunication systems, including fiber optic and radio networks, ensures efficient and continuous connectivity throughout the national territory. The maintenance of Border Public Telephones (TUP), carried out in remote and hard-to-reach areas, ensures communication access for isolated communities. Radiante has technical expertise and a consolidated presence in these services, reinforcing its commitment to national integration and connectivity.



Radiante



MAINTENANCE SERVICE FOR OFFSHORE LIFESAVING AND SAFETY EQUIPMENT

The service guarantees the operability and compliance of maritime devices through mandatory periodic overhaul every 12 months. The process includes detailed inspection, replacement or repair of components, and issuance of a new Overhaul Certificate, ensuring readiness, extending the equipment's service life, and contributing to the safety of lives and property.



FLEXPRIN
MARINE





SPOOL ASSEMBLY AND CONSTRUCTION SERVICE - PRESSURE VESSEL PIPING NETWORKS



Spools and piping networks: Manufacturing, assembly, installation, and construction of spools and piping networks in carbon steel, stainless steel, special alloys, copper-nickel, duplex, superduplex steels, and other stainless materials. Pressure vessels: Design and manufacturing of high-thickness metallic pressure vessels (up to 10"), in special alloys, in addition to process towers and columns, reactors, treaters, separators, stacks, and silos. ASME U and U2 certified.

INNOVATION CONSULTING WITH STRATEGIC ALIGNMENT AND MVP (MINIMUM VIABLE PRODUCT)

The development of Minimum Viable Products (MVP) allows concepts, technologies, and functionalities to be tested and validated before mass production, reducing risks and optimizing resources. TS4 applies this methodology in the defense industry to accelerate innovation and ensure efficiency and assertiveness in the development of strategic systems.



MANUFACTURING SERVICE FOR STEEL FLOATING STRUCTURES, PONTOONS, AND VESSELS

Steel floating structures, pontoons, and vessels require services developed in accordance with applicable technical standards. EBSE is a reference in the design, manufacturing, and assembly of steel floating structures, pontoons, and vessels. It also works with floating structures for submarine docking, support for crew movement, and steel vessels.





BOILERMAKING SERVICE

Execution of cutting, bending, welding, assembly, maintenance, inspection, painting, galvanization, thermal insulation, and field installation. Utilization of certified materials and inputs, with reports from destructive and non-destructive testing. Applications cover various metallic structures, such as plates, panels, ducts, bases, piles, modules, skids, and naval or industrial components.



CONTROL OF ROUTINE FIELD ACTIVITIES SUCH AS MAINTENANCE AND PREVENTIVE INSPECTIONS - WORKTRAXXER

The system integrates various software and applications aimed at the management and control of teams operating in the field, outside of an office environment or in remote locations. The solution optimizes the execution of routine and cyclical activities, ensuring greater operational efficiency, traceability of actions, and better management of human resources in the field.



DEFENSE SYSTEMS RESEARCH

CESAR holds a strategic position in the Brazilian Defense and Security ecosystem, supporting the evaluation, development, and nationalization of technologies critical to sovereignty. Recognized as an EMBRAPII Cybersecurity Competence Center, it conducts research in defense systems, secure communications, sensors, and surveillance technologies, ensuring compliance with national demands.




BRVANT


DEVELOPMENT OF R, D & I PROJECTS

Service focused on the creation of technological solutions applicable to the national context. Activities involve scientific and technological research with a focus on innovation and the development of cutting-edge products, services, processes, and business models. At BRVANT, these actions occur in synergy with educational initiatives and cooperation programs, integrating public and private organizations, educational institutions, and research centers, and contributing to national technological advancement and competitiveness.

SURFACE TREATMENT BY ELECTROPHORETIC PAINTING (KTL)

Consists of a high-technology coating process that ensures anticorrosion protection, uniformity, and durability to metallic parts. Avibras provides its industrial structure for electrophoretic painting (KTL), applicable to steel, galvanized steel, and aluminum, primarily serving the automotive industry. With a diverse line of products and services, the company also operates in the civil market, offering spin-off technology from its developments in the defense sector, with guaranteed quality and proven performance.


AVIBRAS


NON-DESTRUCTIVE TESTING (NDT)

Non-Destructive Testing (NDT) ensures the integrity of components and structures subjected to high stresses, identifying cracks and defects without compromising functionality. They utilize techniques such as visual inspection, liquid penetrant, ultrasound, magnetic particles, and X-ray, ensuring reliability, operational safety, and compliance with industrial quality standards.

RESTORATION OF BALL VALVES WITH HALAR OR BELZONA COATING

The process includes the removal and reapplication of the original coatings, as well as the recovery of preserved components and the manufacturing and replacement of damaged parts. After re-assembly, all valves are subjected to acceptance tests according to applicable standards, ensuring structural integrity and operational performance. The procedure is concluded with the repainting and final finishing, with certified reliability and durability.


Micromazza




MINISTRY OF
DEFENSE

COMPANIES OF THE DEFENSE INDUSTRIAL BASE



SEPROD
SECRETARIAT OF DEFENSE PRODUCTS



ALADA - EMPRESA DE PROJETOS AEROSPACIAIS DO BRASIL S.A.

ALADA proposes a sustainable development model with private investments in the technological infrastructure of the Union through three strategic pillars. The first transforms launch centers into commercial portals for space, boosting technology and regional development. The second pillar ensures state sovereignty in the management of complex aerospace projects, strengthening national industry and generating qualified jobs. Finally, the third pillar focuses on the commercialization of aerospace products and services, connecting state capabilities to market needs.



AMAZUL - AMAZÔNIA AZUL TECNOLOGIAS DE DEFESA

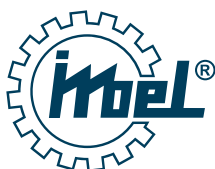
AMAZUL is a Brazilian state-owned company that stands out in the development of nuclear technologies, knowledge management, and the promotion of innovation. Operating at the forefront of the sector, it concentrates especially on projects within the Brazilian Nuclear Program (PNB), developing and implementing advanced solutions for strategic applications. Its work contributes to the improvement of health and quality of life for the population, for the nuclear and energy security of the country, and for the decarbonization of the economy, supporting initiatives aimed at environmental preservation. With a bold vision and commitment to excellence, safety, and sustainability, the company continuously invests in research, development, and application of nuclear technologies in various areas. Its motto summarizes this mission: "AMAZUL: national technology benefiting society."



EMGEPRON - EMPRESA GERENCIAL DE PROJETOS NAVAIS

EMGEPRON is a public company linked to the Ministry of Defense, with a strategic role in the Defense Industrial Base. It acts as an export platform for high-tech products and services, promoting international business, including G2G (Government-to-Government) deals, in naval engineering, vessel construction, combat systems, and integrated solutions. Its portfolio is recognized for its robustness, reliability, and international quality standard, meeting the demands of the Armed Forces and partner countries. The company drives national technological autonomy, fosters innovation, and contributes to regional development.

EMGEPRON



IMBEL - INDÚSTRIA DE MATERIAL BÉLICO DO BRASIL

IMBEL, Brazil's first Strategic Defense Company and linked to the Ministry of Defense through the Brazilian Army, is a pillar for strengthening national technological autonomy and the Defense Industrial Base. By developing high-performance products for the Armed Forces, it drives innovation, regional development, and sovereignty in sensitive technologies, in addition to supplying critical inputs that strengthen the entire chain of defense industries in the country.



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FLEXPRIN MARINE
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E-mail: contato@flexprin.com.br



EPA TRAINING CENTER
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GAT SEGURANÇA DIGITAL LTDA.



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IMBEL - INDÚSTRIA DE MATERIAL BÉLICO DO BRASIL



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H8 ALS INDÚSTRIA AERONÁUTICA LTDA



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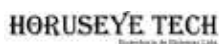
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MICROMAZZA INDÚSTRIA DE VÁLVULAS LTDA.

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MACJEE INDÚSTRIA DE DEFESA LTDA.

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NAYR INDÚSTRIA, COMÉRCIO E DISTRIBUIÇÃO DE PRODUTOS LTDA.

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OMNISYS ENGENHARIA LTDA

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NEGER INDUSTRIAL PESQUISA E DESENVOLVIMENTO LTDA.

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OPTO TECNOLOGIA OPTRÔNICA LTDA.

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OPTSENSYS INSTRUMENTAÇÃO ÓPTICA E ELETRÔNICA LTDA.

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ORGUEL INDÚSTRIA E LOCAÇÃO DE EQUIPAMENTOS S.A.

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E-mail: atendimento@grupoorguel.com.br



NITRO - COMPANHIA NITRO QUÍMICA BRASILEIRA

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PARABELLUM-VENTO COTURNOS E UNIFORMES OPERACIONAIS

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E-mail: comercial@parabellum-vento.com





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PROMEAL INDÚSTRIA DE ALIMENTOS LTDA



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SHIS QL 16 - Conj. 06 - Casa 20 - Lago Sul
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PFM PROTECT



SHIS QL 16 - Conj. 06 - Casa 20 - Lago Sul
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REALDRIVE SIMULADORES



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E-mail: comercial@realdrive.tech



PLASMAHUB S.A.



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RED TECH SECURITY S.A



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POLAR SAPIENS SISTEMAS LTDA.



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RF COM SISTEMAS LTDA.



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POLY DEFENSOR INDÚSTRIA QUÍMICA LTDA.



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RSC CONSULTING & ENGINEERING



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SAFETY WALL DEFESA E SEGURANÇA LTDA.



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SAIPHER ATC LTDA



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SKY KEY TECHNOLOGY



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SCITEC SOLUÇÕES EM ENSAIOS DE MATERIAIS E PRODUTOS LTDA.



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SOL SPORTS INDUSTRIA E COMERCIO LTDA.



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SPARTA ENGENHARIA, SERVIÇOS E COMÉRCIO LTDA.



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SIATT - SISTEMAS INTEGRADOS DE ALTO TEOR TECNOLÓGICO



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TS4 SERVIÇOS, CONSULTORIA E TREINAMENTO LTDA.

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TURBOMACHINE VEICULOS E MOTORES LTDA.

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TZION TECHNOLOGY

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31	"RIACHUELO" CLASS SUBMARINE
43	127MM CALIBER HYPERSONIC ROCKET
50	155 MM ARTILLERY AMMUNITION
61	2.75" ROCKET MOTOR
34	200 AND 500 TON PATROL VESSELS
82	4G GPS VEHICULAR TRACKER - ME0002
93	4G LTE ROUTER - NETAIR 400W
51	60 MM, 81 MM, AND 120 MM CALIBER MORTAR AMMUNITION
25	6X6 ARMORED AMPHIBIOUS VEHICLES – GUARANI
56	70 MM AIR-TO-SURFACE ROCKET SYSTEM – SKYFIRE
54	70 MM SURFACE-TO-SURFACE ROCKET SYSTEM – SKYFIRE
43	70MM ROCKETS
121	A-29 BRAKE ASSEMBLY OVERHAUL KIT
15	A-29 SUPER TUCANO
159	ADS-B STATION SERVICE
72	ADVANCED SYSTEM FOR AERONAUTICAL INFORMATION MANAGEMENT AND OPERATIONAL INTEREST REPORTS
138	AEROSPACE PROJECT - RATO-14X
138	AEROSPACE PROJECT MANAGEMENT
68	AESA RADAR - ATALAIA
90	AI-POWERED INTELLIGENCE SUITES FOR GOVERNMENT AND ENTERPRISE USE – TRACKER, CHATGUARD, DATAVERSO, AND HORUS
73	AIRCRAFT DISPLAY SYSTEM – WIDE AREA DISPLAY (WAD)
144	AIRCRAFT SYSTEMS INSTALLATION AND INTEGRATION, AND PREVENTIVE AND CORRECTIVE MAINTENANCE
115	AIRCRAFT TURBINE – TR5000/ATJA45-40
29	AIRPORT VEHICLES – AP-2 AND AP-4 CCI
149	AIRSPACE PROTECTION AGAINST UNAUTHORIZED DRONES - DRONECONTROL
75	AIR-TO-AIR MISSILE INFRARED SENSORS – IRSA (Infrared Sensor Assembly)
161	AMAZUL KNOWLEDGE MANAGEMENT METHODOLOGY
49	ANTI-BUNKER BOMBS - BLU-109
22	ANTI-DRONE - DRONEBLOCKER 0100/0200
22	ANTI-DRONE - ELANUS C-UAV DETECTION AND NEUTRALIZATION
22	ANTI-DRONE - SIMAD
147	ANTI-RIOT VEHICLE – RIOT
71	ARKHE INTEGRATED SURVEILLANCE SYSTEM
27	ARMORED MULTI-PURPOSE VEHICLE – LMV-BR 2 (GUAICURU)
26	ARMORED TACTICAL VEHICLE – AM 31 CD ARMORED LEVEL III (VTE 1 ½)
57	ASSAULT RIFLE - IA2 5.56
46	ASTROS FIELD ARTILLERY SYSTEM
76	AUTOMATIC DEPENDENT SURVEILLANCE - BROADCAST - ADS-B 280M EQUIPMENT
77	AUTOMATIC TARGET RECOGNITION SYSTEM – ATR RAA
84	AUTOMATIC WATER BODY IDENTIFICATION AND MONITORING SYSTEM – YARA TRACKER
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79	AUTOPILOT SYSTEM FOR CONTROLLING VARIOUS VEHICLES, AIRCRAFT, SUBMARINES, AND TRACKERS - STRIX
145	AVIONICS RETROFIT FOR PANEL MODERNIZATION
99	BALLISTIC PLATES
130	BATTERY MONITORING SYSTEM – RECTIFIER BATTERY CHARGER AND BMS
102	BÉLICA MILITAR TACTICAL BELT
109	BLACK SECOND SKIN SET
166	BOILERMAKING SERVICE
123	BOLTING FASTENING SYSTEM
97	BOMB DISPOSAL AND MINE CLEARANCE SUIT
61	BOOSTERS
107	BOOT - GS 3000
97	BUNDLE - A22
79	CAMERAS FOR SATELLITES
107	CAMOUFLAGE SET
109	CAMOUFLAGE SHORT-SLEEVE T-SHIRT
133	CARBON FLEX WITH GRAPHITE - LGT GASKETS AND LGT-GRAF GRAPHITE PLATES
97	CARGO PARACHUTE - G-13
145	CESSNA CARAVAN MAINTENANCE
34	CLASS 3A HYDROGRAPHIC VESSELS
88	CLAVIS SIEM - OCTOPUS
93	CLOUDMACHINE
41	COASTAL DEFENSE SYSTEM (SDCL)
71	COASTAL SURVEILLANCE UNIT
59	COLLECTIVE TRAINING WEAPONS
112	COMBAT OPERATIONAL RATIONS

108 COMBAT SUIT/COVERALLS
 137 COMMERCIALIZATION SERVICE FOR AEROSPACE PRODUCTS AND SERVICES
 129 COMPOSITE MATERIAL ANALYSIS EQUIPMENT - TZ-TO19 TOMOGRAPH
 65 CONDOR ELECTRIC INCAPACITATING DEVICES - SPARK® Z2.0 AND SPARK® DUO
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 157 CONFORMITY ASSESSMENT OF ARMY CONTROLLED PRODUCTS
 150 CONSTRUCTION AND INSTALLATION OF ENERGY SYSTEMS FOR AIRPORTS
 162 CONSULTANCY IN INTERNATIONAL TENDERS
 118 CONTAINER/SHELTER - STRUCTURED AND MODULAR MOUNTABLE
 166 CONTROL OF ROUTINE FIELD ACTIVITIES SUCH AS MAINTENANCE AND PREVENTIVE INSPECTIONS - WORKTRAXXER
 146 COOPERATION AND DEVELOPMENT OF HIGH-TECHNOLOGICAL COMPLEXITY AERONAUTICAL PROJECTS
 154 CREW TRAINING AND QUALIFICATION FOR ERJ-140, ERJ-135 AND EMB-135BJ
 122 CRITICAL COMPONENTS FOR VEHICLES AND AIRCRAFT - H8-39.039-MIL, H8-39.042-MIL, DI-1833-21-OL, AND DI-2411-11-OL
 125 CRITICAL EQUIPMENT PROTECTOR - ENDURANCE EPC
 123 CUSTOM SPEED REDUCERS
 89 CYBERSECURITY POSTURE ASSESSMENT SYSTEM – GAT SECURITY SCORE
 81 DAP ATLAS PLATFORM
 84 DATA PROCESSING AND STORAGE SYSTEM
 133 DECAGONAL RING
 160 DEFENSE AND SECURITY CARGO LOGISTICS AND DOMESTIC LOGISTICS
 166 DEFENSE SYSTEMS RESEARCH
 112 DEHYDRATED MIXES
 151 DESIGN OF COMPLETE SPACE SYSTEMS
 163 DESIGN OF CONVENTIONALLY ARMED NUCLEAR PROPULSION SUBMARINE
 150 DESIGN, INSTALLATION, AND ASSEMBLY SERVICE FOR CRITICAL SYSTEMS INFRASTRUCTURE
 148 DEVELOPMENT AND CUSTOM PRODUCT MANUFACTURING
 149 DEVELOPMENT SERVICES FOR NAVIGATION, GUIDANCE, AND CONTROL SYSTEMS FOR LAUNCH VEHICLES, MISSILES, AND DRONES
 94 DIGITAL SIGNAGE
 117 DISTANCE MEASURING EQUIPMENT - DME 0200
 105 DOUBLE MAGAZINE POUCH - TAB LOCK FAST BÉLICA MILITAR
 122 DRIVE SHAFTS AND GEARS
 131 DUAL-FUNCTION COATING – W-THANE SRD 50 AND W-POLI HPD 451
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 74 DYNAMIC VERTICAL SENSOR (SDV)
 15 E-175, E-195 E2, E-190 E2, PRAETOR 500/600, PHENOM 100/300
 157 ELECTRONIC HARDWARE DESIGNS MEETING MIL-STD-810H STANDARDS
 158 ELEMENTAL ANALYSIS (ONH), INDUCTIVELY COUPLED PLASMA (ICP) ANALYSIS, AND CHEMICAL ANALYSIS BY OPTICAL EMISSION SPECTROMETRY
 96 EMERGENCY PARACHUTE - RZ-21-R
 153 EMERGENCY PROCEDURE TRAINING (TPE) FOR AS350 AIRCRAFT – ESQUILO
 146 ENGINEERING PROJECTS AND CERTIFICATION PROCESS
 146 ENGINEERING PROJECTS IN TURBOMACHINERY AND RELATED TECHNOLOGIES
 129 ETHERNET IP/MPLS SWITCHES AND IP ACCESS ROUTERS
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 159 GENERAL USE OPAQUE ARMOR - BLDE013P AND NEOFLEX PANTHER
 16 H125
 16 H225
 101 HANDCUFFS
 102 HANDHELD TACTICAL FLASHLIGHTS – AEGIS TL-08, TM-18, RANGER; PISTOL-MOUNTED TACTICAL LIGHTS – AEGIS LP-08; AND HEADLAMPS – AEGIS CAVE
 105 HARD CASE IN FIBERGLASS COMBAT LINE
 90 HARDWARE SECURITY MODULE – KNET HSM

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73	HEAD-UP DISPLAY (HUD)
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102	HIGH-CAPACITY BACKPACK
94	HIGH-PERFORMANCE ETHERNET ROUTER - NETLINK 2000
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100	HORIZONTAL POUCH - OLIVE DRAB
83	HORUS REENTRY AND DOMINUS
83	HORUS TRACKING AND SPOT
164	IMPLEMENTATION AND MAINTENANCE OF TELECOMMUNICATION SYSTEMS AND MAINTENANCE OF BORDER PUBLIC TELEPHONES
119	INDIVIDUAL GENERATION SYSTEM WITH INTERMITTENT SOURCE (SIGFI)
111	INDIVIDUAL MILITARY FIRST AID/HEALTH KIT – IFAK PRO 950
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126	INDUSTRIAL FANS
130	INDUSTRIAL VACUUM CLEANERS AND CENTRAL VACUUM SYSTEMS
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121	INJECTOR ELEMENT - VBC CC LEOPARD
165	INNOVATION CONSULTANCY WITH STRATEGIC ALIGNMENT AND MVP (MINIMUM VIABLE PRODUCT)
155	INSTALLATION AND MAINTENANCE OF TELEMETRY STATIONS AND FLIGHT TERMINATION SYSTEMS FOR SATELLITE AND SUBORBITAL VEHICLES
148	INSTALLATION OF ILS, DVOR, AND AERONAUTICAL TELECOMMUNICATION SYSTEMS (VHF, UHF, AND DGPS)
156	INSTALLATION, TRAINING, AND SUPPORT SERVICE FOR THE UNIFIED COMMUNICATION SYSTEM (UNA)
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64	LESS-LETHAL PISTOL - IMPACT
64	LESS-LETHAL PISTOL FOR CONTROLLED SHORT-RANGE IMPACT - DEFENSOR® FR-112
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100	LIGHT CAMOUFLAGED BALLISTIC VEST COVER - G2
106	LONG AND MEDIUM SHAFT PVC SAFETY BOOT
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164	MAINTENANCE SERVICE FOR OFFSHORE LIFE-SAVING AND SAFETY EQUIPMENT
139	MANSUP – EXTENDED RANGE SURFACE-TO-SHIP MISSILE
165	MANUFACTURING SERVICE FOR FLOATING STRUCTURES, PONTOONS, AND STEEL VESSELS
120	MATERIAL DISINFECTION AND TECHNICAL CONSERVATION SYSTEM – RBB-175 AND RBB-360 TINHIS
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126	MECANFLEX AND TUBE-AND-COUPLER SCAFFOLDING, QUIKDECK SUSPENDED ACCESS SYSTEM, AND AERIAL WORK PLATFORMS
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133	METAL AND SEALING GASKETS, INSULATION FABRICS, AND TAPES
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155	MID-LIFE ANALYSIS OF TT&C STATIONS AND TELEMETRY STATIONS
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117	MILITARY TACTICAL SHELTER
110	MILITARY TRANSPORTER – PEGASUS MTS 410
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151 NANOSATELLITE CONSTELLATION PROJECT
51 NAVAL AND ARTILLERY AMMUNITION – 105 MM, 40 MM L/60, 40 MM L/70, AND 76 MM L/62
131 NAVIGATION LIGHTS PANEL - TEKNAV-LIGHTS NLC
76 NAVIGATION, GUIDANCE, AND CONTROL SYSTEM FOR MISSILES AND DRONES
91 NETWORK CIPHER - COMMGUARD
52 NITROCELLULOSE
108 NOMEX COMFORT FLAME-RESISTANT FLIGHT JACKET
107 NOMEX COMFORT FLAME-RESISTANT FLIGHT SUIT/COVERALLS
108 NOMEX FLAME-RESISTANT FLIGHT GLOVES
167 NON-DESTRUCTIVE TESTING (NDT)
56 NON-LETHAL VEHICULAR MULTIPLE LAUNCHER – STINGER® (LMV-637)
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159 ON-DEMAND ASPIRATION SOLUTIONS
152 ON-DEMAND REMOTE SENSING PLATFORM - WEBVIS
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74 OPTRONIC SYSTEM FOR ARMORED VEHICLES
143 OVERHAUL, REPAIR, AND SUPPORT FOR TURBOPROP, TURBOJET, AND TURBOFAN AIRCRAFT ENGINES
167 P, D & I PROJECT DEVELOPMENT
112 PASTA FOOD PRODUCTS
36 PATROL BOAT – SCHAEFER V33 PATROL
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140 PATROL VESSEL (NPA500)
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66 PYROTECHNIC FLARES
103 QUICK MAGAZINE POUCH - FAST MAG OLIVE DRAB
127 RACKS; CELPOSTE; CLAVIUM; GUARDUS; FULL IGBT UPS – SECURITY AND SURVEILLANCE SYSTEMS
68 RADARS - PRIMARY: STAR-NG AND LP23SST SIGMA; SECONDARY: RSM-NG
69 RADARS - SABER M60 AND SABER M200 VIGILANTE
103 RADIO POUCH
104 RADIO POUCH - OLIVE DRAB
82 RADIOS - MALLET, SOFTWARE-DEFINED RADIO (SDR DEFENSE), AND THE AIRBORNE E-LYNX MARC
78 RADMON AND CELLMON
147 RAPID RESPONSE VEHICLE FOR DISASTER RELIEF

88	REALDRIVE GOVERNMENT VEHICLE DRIVING SIMULATOR WITH MOTION – RDVG
156	REFURBISHMENT SERVICE FOR THE ALLISON TX-100 TRANSMISSION AND TRANSFER CASE APPLIED TO THE VBTP M113BR
128	REMOTE AREA CONNECTIVITY EQUIPMENT - RURALMAX® PRO
55	REMOTELY CONTROLLED TURRET – UT30BR
56	REMOTELY CONTROLLED WEAPON STATION FOR MACHINE GUNS - ABAPORAN
110	RESCUE STRETCHER – ANTHONY
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101	RETRACTABLE BATON - MARÍTIMUS
132	RIACHUELO CLASS SUBMARINE HATCHES
58	RIFLE WEAPON - T4 5.56 NATO
33	RIVERINE OPERATIONS BOATS (LOPRIB) – EXCALIBUR
41	ROCKET LAUNCHER SYSTEM – ARMADILLO
45	ROCKETS - FOG30K, FOG100K AND FOG120K-L
134	RUBBER PAD AND REMOVABLE PAD
106	SAFETY ANKLE BOOT, BIDENSITY SOLE, PVC, STEEL, AND COMPOSITE TOE CAP
161	SAFETY PROTOCOL FOR BIOSECURITY AND BIOPROTECTION
147	SATELLITE COMMUNICATION ANTENNA
76	SATELLITE NAVIGATION, CONTROL, AND GUIDANCE SUBSYSTEM – AOCS
151	SATELLITE TRACKER - METROSAT
70	S-BAND DOPPLER WEATHER RADAR (RMT 0200) AND OVER-THE-HORIZON RADAR (OTH 0100)
94	SECURE CABINET
82	SECURE COMMUNICATION SYSTEM – INVOLATUS
104	SEMI-RIGID TOURNIQUET POUCH
135	SHF2 CLASS 2 POWER CABLE - SHF2 CLASS 2 SHIELDED MULTI-CONDUCTOR
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124	SHUTOFF VALVES – TRUNNION BALL VALVE
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137	SPACE LAUNCH SERVICES
160	SPECIALIZED LOGISTICS FOR DEFENSE PROJECTS: CUSTOMS CLEARANCE OF CONTROLLED ITEMS (PCE), SPECIAL CUSTOMS REGIMES, AND TRANSPORT OF CLASS 1 EXPLOSIVES
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155	SPECTRAL INTELLIGENCE – EXPECTRA
165	SPOOL ASSEMBLY AND CONSTRUCTION SERVICE – PRESSURE VESSEL PIPING NETWORKS
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157	SYSTEMS, STUDIES, AND DATABASES RELATED TO LIFE CYCLE MANAGEMENT (LCM) AND INTEGRATED LOGISTICS SUPPORT (ILS)
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99	TACTICAL AND BALLISTIC VESTS
26	TACTICAL AND OPERATIONAL VEHICLES – AGRALE MARRUÁ
36	TACTICAL BOATS – DGS PRO
106	TACTICAL BOOTS
101	TACTICAL HELMETS
77	TACTICAL INERTIAL NAVIGATION SYSTEM FOR ARTILLERY MISSILES (SNIT) AND INERTIAL NAVIGATORS FOR ROCKETS (GNSS)
58	TACTICAL RIFLES - FE-115FGP AND FE-160F
58	TACTICAL SUBMACHINE GUNS – FE-905SM AND FE-908SM
32	TAMANDARÉ CLASS FRIGATES
66	TEAR GAS AMMUNITION
156	TECHNICAL ASSESSMENT SERVICE FOR SOIL, ELECTRICAL INFRASTRUCTURE, COMMUNICATION, AND INTERFERENCE
163	TECHNICAL SPECIFICATION OF UNIFORMS AND LABORATORY TESTING OF UNIFORMS
143	TEST BENCH
164	TESTS ACCORDING TO SENASP TECHNICAL STANDARD N° 006/2022
80	THERMAL CAMERAS FOR ARMORED VEHICLES
98	THERMAL IMAGING EQUIPMENT FOR MSS LASER GUIDANCE AND AIMING UNIT – EITMSS
113	THERMOPROCESSED MRE (MEAL READY TO EAT) FOOD

148 TMI MAINTENANCE AND REFURBISHMENT AND REVITALIZATION OF SUBORBITAL VEHICLE LAUNCHERS
 79 TRACKING AND TRAJECTOGRAPHY SYSTEM
 153 TRAINING (INITIAL AND RECURRENT) FOR AIRCREW USING SIMULATION TOOLS
 (H225/H225M FULL-FLIGHT SIMULATOR - FFS)
 153 TRAINING AND QUALIFICATION FOR FLIGHT CREW OF ATR 42-500, EMB120, JET TRAINING AND SDEA EXAMS
 154 TRAINING AND QUALIFICATION FOR OPERATING TT&C STATIONS FOR SATELLITE AND SUBORBITAL VEHICLES
 49 TRAINING BOMB - BDU-33AT AND 33AT
 47 TRAINING ROCKETS - AV-FTI AND AV-FTB
 135 TRAMANAV TI(SN) 90 0.6/1KV
 135 TRAMASIL TI(SN) 200°C 500V TO 1KV
 96 TROOP PARACHUTE - RZ-21-1
 29 TROOP TRANSPORT VEHICLE
 115 TURBOJET ENGINE – TJ-1000-C AND TJ-200
 113 TYPICAL MEALS KIT
 19 UAV A200
 17 UAV ALBATROZ
 17 UAV ATOBÁ
 18 UAV CAÇADOR II
 21 UAV CONDOR DROP ®
 21 UAV ELANUS
 20 UAV FORTRESS
 20 UAV HARPIA
 19 UAV NAURU
 20 UAV TACTICAL AIR SOLDIER (TAS)
 21 UAV TIFÃO
 28 ULTRALIGHT TACTICAL OFF-ROAD VEHICLE – UTV COMBATT
 92 UNIFIED COMMUNICATION SYSTEM – UNA
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	AEGIS	AIRSTEP	Algemas Brasil	BCA Têxtil	BDS Confeções	Bélica Militar	Cubana Magazine	Cellier	Delta	Desmodus	For Honor	Grupo Ibra	Grupo Protecta	Malgan	Mexidona	Nayr	OLSEN	OPTO	Parabellum I Vento	PFM Medical	PFM Protect	Premeal	Sirmed	Sol Sports	VAPZA	Vertical do Ponto	Viposa
AUTOMOTIVE ARMOR - PRO-UD																											
BALLISTIC PLATES				■								■	■								■						
BÉLICA MILITARY TACTICAL BELT						■																					
BLACK BASE LAYER SET																■											
BOMB DISPOSAL AND DEMINING SUITS													■														
BOOT - GS 3000																			■								
CAMOUFLAGE SHORT-SLEEVE SHIRT																■											
CAMOUFLAGE UNIFORM SET				■												■											
CARGO BUNDLE - A-22																										■	
CARGO PARACHUTE - G-13																										■	
COMBAT JUMPSUIT																■											
DEHYDRATED MIXES																											
DOUBLE MAGAZINE POUCH - TAB LOCK FAST BÉLICA MILITAR						■																					
DROP LEG POUCH																								■			
EITMSS - THERMAL IMAGING EQUIPMENT FOR MSS LASER GUIDANCE AND AIMING UNIT																		■									■
EMERGENCY PARACHUTE - RZ-21-R																											
FIBERGLASS CHEST - COMBAT LINE														■													
FIBERGLASS HARD CASE - COMBAT LINE														■													
G2 CAMOUFLAGED LIGHTWEIGHT BALLISTIC VEST CARRIER										■																	
HANDCUFFS			■																								
HOLSTERS - G5F, BLACK OPS, HAMMER PRO BÉLICA MILITAR						■																					
INDIVIDUAL FIRST AID KIT (IFAK) - IFAK PRO 950																			■								
LARGE-CAPACITY BACKPACK																									■		
LONG AND MEDIUM PVC SAFETY BOOT							■																				
MILITARY CARRIER - PEGASUS MTS 410																							■				
MILITARY DENTAL EQUIPMENT																	■										
MP5 400 PANDORA III® MULTI-FOLD STRETCHER																							■				
NOMEX COMFORT FLAME-RESISTANT FLIGHT JACKET									■																		
NOMEX COMFORT FLAME-RESISTANT FLIGHT SUIT									■																		
NOMEX FLAME-RESISTANT FLIGHT GLOVES									■																		
OLHAR - MULTIPURPOSE THERMAL MONOCULAR																		■									
OLHAR MONOCULAR - OPTRONICS																		■									
OLIVE DRAB HORIZONTAL POUCH											■																
OPERATIONAL COMBAT RATIONS								■														■					
OPERATIONAL PARACHUTE - VP300																										■	
PASTA MEALS															■												
PRE-HOSPITAL APPLICATION TOURNIQUET - T-APH DESMODUS										■																	
QUICK-DRAW MAGAZINE POUCH - FAST MAG OLIVE DRAB											■																
RADIO POUCH																								■			
RADIO POUCH - OLIVE DRAB											■																
RESCUE LITTER - ANTHONY										■																	
RETRACTABLE BATON - MARÍTIMUS			■																								
SAFETY BOOTIE - DUAL DENSITY SOLE, PVC, STEEL, AND COMPOSITE TOE						■																					
SEMI-RIGID TOURNIQUET HOLDER										■																	
TACTICAL AND BALLISTIC SHIELDS												■	■														
TACTICAL AND BALLISTIC VESTS												■	■								■						
TACTICAL BOOTS		■																	■								■
TACTICAL HANDHELD FLASHLIGHTS - AEGIS TL-08, TM-18, RANGER, FOR PISTOLS AEGIS LP-08, AND FOR HEAD AEGIS CAVE	■																										
TACTICAL HELMETS				■								■															
THERMALLY PROCESSED FOOD - MRE (MEAL READY TO EAT)																						■					
TROOP PARACHUTE - RZ-21-1																										■	
TYPICAL DISHES KIT																									■		



NAVAL PLATFORMS

	Águas Azuis	Alegria	Black Marine	DGS	Engenpro	Estaleiro Schaefer	Flexprim Marine	ICN	Inace	Modirum I Gespi
200 AND 500 TON PATROL VESSELS									■	
CLASS 3A HYDROGRAPHIC SHIPS									■	
FAST ATTACK CRAFT		■								
INTERCEPTION BOAT - BM900T			■							
LIFE RAFT - SOLAS ANGEVINIER							■			
MILITARY VESSELS - ARUANÃ										■
MULTIFUNCTIONAL RESCUE VESSEL - GJ6.10 PROJECT							■			
PATROL BOAT - SCHAEFER V33 PATROL						■				
PATROL BOATS									■	
"RIACHUELO" CLASS SUBMARINE								■		
RIVERINE OPERATIONS BOATS (LOPRIB) - EXCALIBUR					■					
TACTICAL BOATS - DGS PRO				■						
TAMANDARÉ CLASS FRIGATES	■									
UNMANNED SURFACE VEHICLE (USV) - SUPPRESSOR				■						



GROUND PLATFORMS

	Agrale	IDV	Nafa	Triel-HT
AIRPORT VEHICLE - AP-2 AND AP-4 CCI				■
ARMORED AMPHIBIOUS VEHICLES 6X6 - GUARANI		■		
ARMORED TACTICAL VEHICLE - AM 31 CD ARMORED LEVEL III - VTE 1 ½	■			
MULTITASK ARMORED VEHICLE - LMV-BR 2 (GUAICURU)		■		
OPERATIONAL TRANSPORT VEHICLE - TRUCK A 10000 4X4 - VTNE 5 TON	■			
TACTICAL AND OPERATIONAL VEHICLES - AGRALE MARRUÁ	■			
TROOP TRANSPORT VEHICLE				■
ULTRALIGHT TACTICAL OFF-ROAD VEHICLE - UTV COMBATT		■		

[illegible]



AES-B STATION SERVICE	
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AEROSPACE PROJECT MANAGEMENT	
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WEB PLATFORM FOR PSYCHOSOCIAL RISK ASSESSMENT AND DIGITAL TOOL FOR BEHAVIORAL MONITORING	



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