

Current and Future Procurement programs for the Hellenic Army

Assault Amphibious Vehicles (AAVs)

On 17 March 2023, the State Department has made a determination approving a possible Foreign Military Sale to the Government of Greece of Assault Amphibious Vehicles (AAVs) and related equipment for an estimated cost of \$268 million. The Defense Security Cooperation Agency delivered the required certification notifying Congress of this possible sale.

The Government of Greece has requested to buy sixty-three (63) Assault Amphibious Vehicles, Personnel Variant (AAVP-7A1), nine (9) Assault Amphibious Vehicles, Command Variant (AAVC-7A1), four (4) Assault Amphibious Vehicles, Recovery Variant (AAVR-7A1), and sixty-three (63) 50-Caliber Machine Guns (Heavy Barrel). Also included are MK-19 Grenade Launchers, M36E T1 Thermal Sighting Systems (TSS), supply support (spare parts), support equipment (including special mission kits/tools/Enhanced Applique Kits (EAAK)), training, technical manuals (UNCLASSIFIED), technical data, U.S. Government and contractor engineering, technical support and assistance (including Contractor Engineering Technical Services (CETS)), Integrated Logistic Support (ILS) management services, parts obsolescence remediation, calibration services, transportation, Follow-on Support (FOS), Return, Repair and Reshipment of unserviceable repairable items/equipment, applicable software and apparel, **and** other related elements of logistics and program support. The estimated total cost is \$268 million.

Acquisition of Marder Infantry Fighting Vehicle

On 16 September 2022, a Memorandum of Understanding (MoU) was signed between the Ministry of Defense of Germany and the Ministry of National Defense of Greece regarding the donation of forty (40) Marder infantry fighting vehicle to replace forty (40) BMP-1 infantry fighting vehicle which were granted to Ukraine as a part of Greece's military assistance.

According to the delivery schedule fourteen (14) vehicles have already been received while an additional six (6) are expected to be delivered soon. The delivery of the remaining twenty (20) Marder is expected to take place in the second half of this year.

Combat Engineer Vehicle

On 3 October 2022, the Ministry of National Defense, as the Contracting Authority, announced an international tender regarding the procurement of 12 Combat Engineer Vehicle (CEV). Project estimated budget IS 24 million euros. On 8 November 2022 interested companies submitted technical and financial offers. German company FFG Flensburger Fahrzeugbau GmbH is considered the main candidate.



“Greece Modernises its Armed Forces and Strengthens its International Defence and Security Collaboration”

Nikolaos I. Panagiotopoulos

Minister of National Defence, Hellenic Republic

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Procurement of Lynx infantry Fighting Vehicle and modernization of Leopard 2A4 Main Battle Tank

Greek Defence Minister Panagiotopoulos officially announced KYSEA (Government Council for Foreign Affairs and Defence) decision regarding the approval for the procurement of 205 new infantry fighting vehicles KF41 Lynx produced by the German Rheinmetall group including initial and follow-on support and the modernization of 123 Leopard 2A4 tanks out of 183 vehicles of this type, available to the Hellenic Army, up to the level of Leopard 2A7 HEL.

The Lynx platform offers maximum freedom of action. It assures outstanding mobility (MOVE), it gathers data, analyses and disseminates it (SENSE), and creates windows of opportunity for responding to battlefield threats flexibly and effectively (STRIKE). The Lynx's time has come. With more performance, more space and more possibilities.

The Lynx can be configured for various roles.:

- Infantry Fighting Vehicle (IFV)
- Command & Control
- Armoured Reconnaissance
- Repair & Recovery
- Ambulance

A high degree of commonality in parts and components is another prominent feature of the Lynx family of vehicles. This simplifies logistic support and has a positive impact on training. Furthermore, customized service support is available worldwide – ranging from training and logistics to in-theatre repairs and technology transfer, including local suppliers for development, production and lifecycle support, and local procurement of ancillary systems. So far, the Lynx comes in these two versions:

- Lynx KF31, Agile, hard-hitting and highly protected, this state-of-the-art tracked armoured vehicle is destined to dominate the modern battlefield, lending itself to operations from peace enforcement to high-intensity combat. The Lynx KF31 is weighing up to 38 tons and can seat 3+6 soldiers.





LYNX KF41

The Lynx KF41 is more than just a new, highly advanced vehicle: it is the ultimate future-proof platform, blending unsurpassed protection with massive firepower and unbeatable mobility in a uniquely modular concept.

MOVE – SENSE – STRIKE

The Lynx platform offers maximum freedom of action. It assures outstanding mobility (MOVE), it gathers data, analyses and disseminates it (SENSE), and creates windows of opportunity for responding to battlefield threats flexibly and effectively (STRIKE).

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- Lynx KF41: This variant is slightly larger and can carry 3+8 soldiers.

Spike NLOS

Greece will acquire Israeli-made Spike NLOS (non-line-of-sight) missiles to bolster its defense capabilities and military presence in the Aegean and Evros land borders with Türkiye. Negotiations between Greece and Israel for Spike-NLOS anti-tank guided missile systems, addressing the needs of the Hellenic Army, Navy and Air Force, have reportedly reached at the final stage. On 2 April 2023 KYSEA approved all three contracts regarding the procurement of the Spike NLOS.

- Designed by Rafael Advanced Defense Systems, the Spike NLOS missile is a multi-purpose electro-optical missile system that can be installed on a variety of land, air, and sea platforms. It can be operated in either direct attack or mid-course navigation using coordinates only and provide the ability to attack enemies at stand-off range with no line of sight. The Spike NLOS is capable of hitting targets with precision at a distance of 25 kilometers (15 miles).
- Maintaining superiority and creating an effect on the modern battlefield require an array of capabilities including high rate, high precision attacks on multiple targets, close cooperation between mission participants, detailed and updated views of the target, and stand-off ranges sufficient for avoiding today's sophisticated threats.
- The system can launch and control Salvos of up to 4 missiles simultaneously, while in the air, from a single launcher by a single operator. Missiles can be launched from one platform with a Handover to another platform for completion of the mission.
- Target Acquisition can be accomplished by the transfer of aerial images of the target to the SPIKE NLOS system and matched with the missile's video images during flight. The system's Range and non-line-of-sight capabilities have been further extended to up to 50 km from a helicopter and 32 km from the ground.

M1117 Wheeled Armour Security Vehicles

On 23 July 2022, the acceptance of additional 90 M1117 Wheeled Armour Security Vehicles (ASV) was conducted in Thessaloniki. These vehicles are added to the 354 which already have been received so far. The M1117 are granted to Hellenic Army through the program of Excess Defence Articles

– EDA of the USA and are utilized in missions of area reconnaissance and surveillance, substantially enhancing the operational capabilities of the Army, due to their flexibility and reinforced armour. The acceptance of the M1117 ASV will continue in the near future, as scheduled. U.S. plans to provide 1,200 armored vehicles by the end of 2023. U.S. Congress has approved the sale which had been used by U.S. Army military police units and were offered to Greece for around 70,000 euros. However, the sale price to the Greek military didn't include the platform's armaments, so Greek Army will have to supply its own machine guns and grenade launchers. Yet, even in used condition and without armaments the M1117 could be just what the Greek military needs—an affordable platform with plenty of spare parts to ensure that the Guardians will remain operational for years to come.

The M1117 Guardian, also denoted Armored Security Vehicle (ASV), is an internal security vehicle based on the V-100 and V-150 Commando series of armored cars. It was developed in the late 1990s for service with the United States Military Police Corps. The first prototypes appeared in February 1997 and serial production of the M1117 commenced between 1999 and early 2000.

The M1117 was one of the first American military vehicles to be built on a specialized mine-resistant hull, and after 2001 was adopted in increasing numbers as a direct response to the threat posed by improvised explosive devices to US forces in Iraq and Afghanistan. Its armament consists of a Mk 19 grenade launcher and M2HB Browning machine gun.

The ASV uses an advanced modular expandable armor package from IBD Deisenroth Engineering, consisting of ceramic composite applique on the exterior and spall liner on the interior. The Guardian's armor is designed to defeat small arms fire, mines and Improvised Explosive Devices (IEDs).

Hellenic Army's small arms and light weapons

On 18 March 2022, Defence minister update Hellenic Parliament on the following Hellenic Army's future procurement programs related to small arms and light weapons:

- Procurement of 1000 FN MINIMI® 5.56 Light Machine Guns Mk1 and Mk2 with estimated cost 10.917.950€ which will be manufactured by the Hellenic Defence Systems. FN MINIMI® 5.56 Light Machine



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Following the Mirage F1 in 1974, the Mirage 2000 in 1985 and the Mirage 2000-5 in 2000, the Rafale provides the Hellenic Air Force with the latest-generation fighter, enabling the Hellenic Republic, a leading European partner and a major member of NATO, to reinforce the protection of the country, to ensure its geopolitical stance in full sovereignty and to serenely address its strategic ambitions for the future.

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- Guns Mk1 and Mk2 have been adopted by 70 countries worldwide as a standard issue for regular and special forces. The FN MINIMI® 5.56 Mk3 Light Machine Gun has recently been designed and developed for improved ergonomics and handling.
- Upgrading 500 M2 .50 Caliber Machine Guns M2 Browning to the new M2A1 configuration with estimated cost 2.132.500€. The upgraded weapon system offers increased performance as well as new features and design improvements. They include fixed headspace and timing, a quick-change barrel with removable carrying handle, a new flash hider that reduces the weapon's night-time signature by 95 percent, and a trigger block safety.
- Support spare parts of the Hellenic Army light weapons with estimated cost 514.510€.
- Study for the upgrade of HK G3A3/A4 which is a 7.62x51mm NATO, select-fire battle rifle developed in the 1950s by the German armament manufacturer Heckler & Koch (H&K) is currently under evaluation. G3 Service rifle Made under license by Hellenic Defence Systems (EAS), formerly under EBO. Sizable number of rifles equipping frontline units got upgraded with SPUHR adjustable stock, aluminium handguard with foregrip and Picatinny rails accommodating Aimpoint CompM4 Red Dot optics. A smaller number of rifles were converted to the 'Sharpshooter' version utilizing FAB Defence, MAGPUL and VORTEX OPTICS aftermarket parts.

Procurement of 41 vessels/speedboats type MUNIN S-1200

On December 14, 2021, in GDDIA premises, GDDIA and VIKING NORSAFE LIFE – SAVING EQUIPMENT HELLAS S.A signed the 002B/21 Framework Agreement, for the procurement of 41 vessels/speedboats type MUNIN S-1200 and the 7-year Initial Follow-on Support to be used by the Hellenic Army's special forces.

The VIKING Norsafe Munin 1200 daughter craft has excellent reliability, maneuverability and sea keeping abilities in order to fulfil its prime function - to provide an effective means of search and recovery for persons missing at sea. Design and construction fulfil the need for reliable, low maintenance standby and operation. The boat is further designed to serve the patrol, boarding and inspection role, with deck layout allowing the crew to operate efficiently and comfortably over long time periods. The layout and performance of the boat ensures optimum diving support, survey and work boat duties.

Chinook CH-47D helicopters

On 9 December 2021, Hellenic Ministry of defense signed an amendment to the LOA GR-B-XOP regarding the replacement of engines Textron Lycoming T55-L-712/714; 3750 HP for the nine Chinook CH-47D older heavy transport helicopters. In addition, a Follow-on Support (FOS) program worth of €100 million has already been activated. The Hellenic Army retains a fleet of 25 CH-47C/D models in various configurations.

Procurement of Parachute Static Belt Airborne for the Hellenic Army Special Forces

On 9 December 2021, General Directorate for Defence Investments and Armaments announced that the Greek company IKNOWHOW awarded with a contract regarding the procurement of 2100 Parachute Static Belt Airborne MC1-1D type and 1700 Reserve Parachutes T-10R type to be manufactured by the Spanish company PARAFly SA. Estimated budget is in the area of 8.810.000 €. The MC1-1C maneuverable parachute assembly designed by the United States Army in 1988 from the basic MC1-1B canopy is used primarily for a premeditated jump when a precision soft landing in a small target area is necessary. T-10R Reserve Troop Parachute Assemblies are used as an emergency type parachute that is manually operated in case of main parachute malfunction. The various T-10R assemblies have been in service for several decades and are used in conjunction with T-10 and MC-1 troop main parachute assemblers.

According to the delivery schedule 250 parachutes will be delivered in the first year, 600 in the second year and 250 will be delivered each of the next five years. Respectively, 200 reserve parachutes will be delivered in the first year, 400 in the second year, 200 in the third year, 400 in the fourth, 250 in the fifth and 300 in the sixth.









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Greece approves purchase of Israeli-made missiles

On 10 April 2023, Israel Defence Ministry announced a 1.44-billion-shekel (\$400m) deal to sell Spike anti-tank missiles to Greece. In a statement, the Israeli Defense Ministry said it would provide Greece Spike missiles manufactured by the state-run Rafael Advanced Defense Systems company. It added that the agreement was signed between Israeli Defense Ministry Director-General Maj. Gen. Eyal Zamir and Greece's director of defense investments and armaments, Vice Adm. Aristeidis Alexopoulos. "The Spike missiles will strengthen the Greek army's portfolio of operational tools and we expect further expansion through strategic collaborations in the near future," said Yoav Har-Even, the CEO of state-owned defence contractor Rafael which produces the anti-tank missiles.

On 29 March 2023, the Government Council for Foreign Affairs and Defence (KYΣΕΑ) chaired by the Prime Minister, approved the procurement of SPIKE-NLOS missile system in three different configurations:

- Purchase of 17 SPIKE-NLOS systems with 340 fire-and-forget anti-tank guided missile missiles for an estimated cost of € 270million.
- Purchase of 100 SPIKE-NLOS missiles to equip the AH-64A attack helicopters of the Hellenic Army Aviation for an estimated cost of € 45 million.
- Purchase of four SPIKE-NLOS systems to equip the Hellenic Navy's patrol boats and another four SPIKE ER2 systems to equip the Hellenic Navy's Special Forces operation crafts for an estimated cost of € 55 million.

The SPIKE NLOS 6th Gen Missile rapidly closes the sensor-to-shooter loop, simultaneously neutralizing multiple targets at game-changing stand-off ranges. Real-time tactical intelligence and BDA enable target adjustment and midflight aborting of missions, as well as operation in both offensive and defensive scenarios. Maintaining superiority and creating an effect on the modern battlefield require an array of capabilities including high rate, high precision attacks on multiple targets, close cooperation between mission participants, detailed and updated views of the target, and stand-off ranges sufficient for avoiding today's sophisticated threats. SPIKE NLOS 6th Gen capabilities create a new battlefield reality, increasing lethality, survivability, throughput, efficiency and effect as well as significantly expanding tactical and strategic possibilities.

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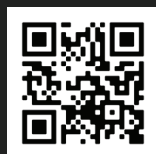
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IAI and MBDA Germany announce a cooperation MoU

IAI defense electronics subsidiary, ELTA Systems, and MBDA Germany GmbH, have announced a new agreement for joint promotion of solutions in the fields of Electronic Warfare (EW) and EW training in Germany. Scorpius is the first electronic warfare (EW) system in the world capable of simultaneously targeting multiple threats, across frequencies and in different directions.

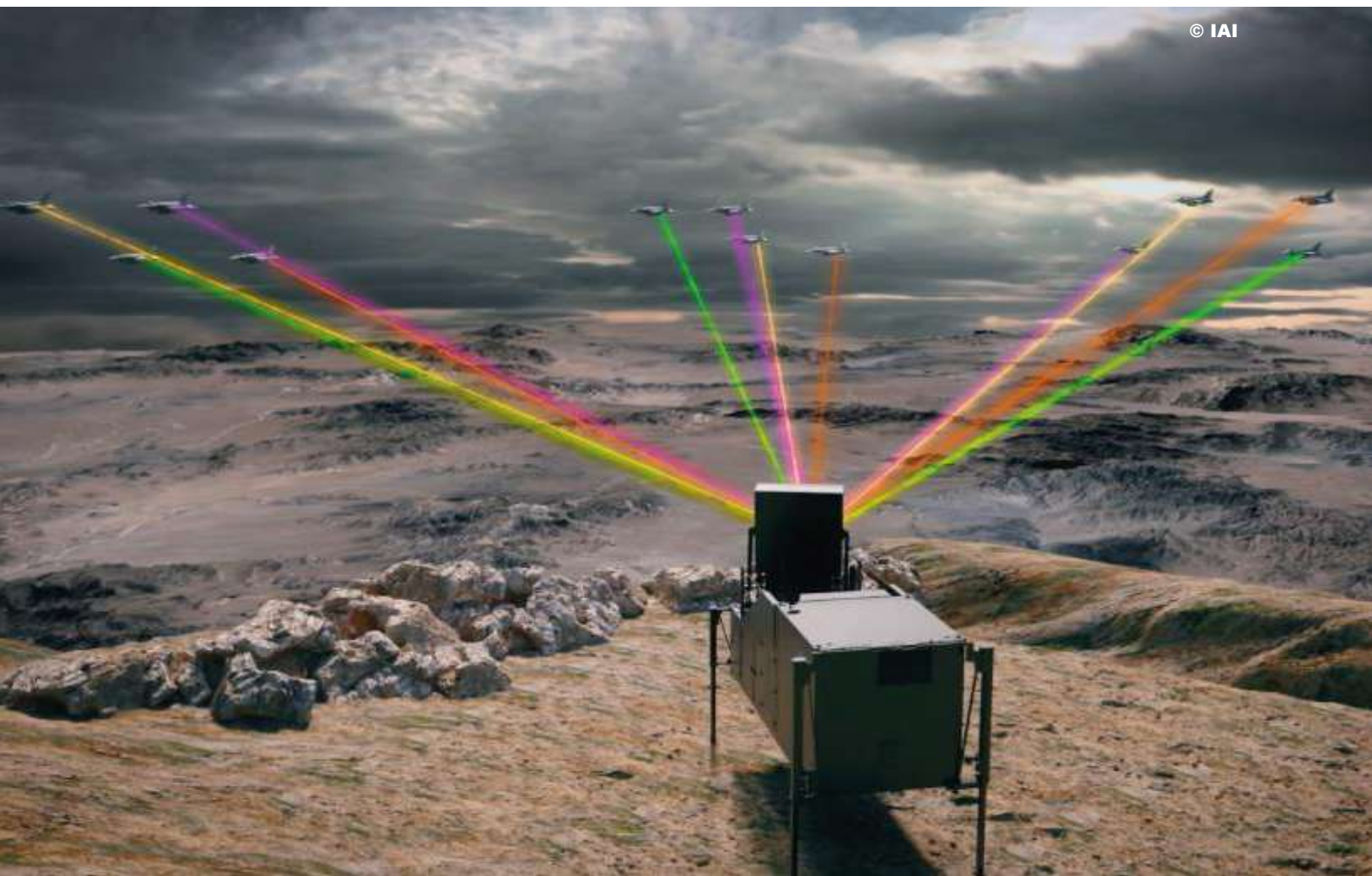
The Memorandum of Understanding (MoU) agreement outlines planned cooperation on the promotion of joint solutions for Air Defense and Electronic Warfare training based on ELTA's ground-breaking EW technology: The Scorpius family of EW systems, in conjunction with MBDA Germany's expertise in air defense and training systems.

Within the framework of the MoU, the companies will offer the German armed forces a ground-based jammer for electronic air-defense based on ELTA's Scorpius-G system, as well as an advanced threat emulator for EW training based on the company's Scorpius-T system.

MBDA Germany will utilize its expertise in defense and training systems to ensure integration and future adaptations into the European/German defense training organization's system of systems.

Guido Brendler, Sales and Business Development Director of MBDA Germany, noted that "Electronic Air Defense and Electronic Warfare Training is an essential capability for our customers. It is our ambition to provide the German Armed Forces with the best Ground-Based Air Defense technology and EW performance available. IAI and MBDA have been working together intensively in that field over the last year. By combining the innovation and expertise of IAI and MBDA, we will be well positioned to provide the German Armed Forces with the advanced Air Defense solutions needed to meet 21st century security challenges."

Adi Dulberg, General Manager of ELTA Systems' Intelligence, Communications and EW Division, stated that "ELTA is excited to be cooperating with MBDA in the German market. The combination of MBDA's system engineering and integration capabilities, and its deep knowledge of Air Defense and EW training, together with ELTA's innovative Scorpius EW systems, will help the German customer greatly enhance its abilities in electronic defense and training, and effectively address the challenging threats of the modern arena."



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European Defence Fund: Dassault Aviation launches, at the industrial level, the EICACS project, a European initiative for the standardization of collaborative air combat

- The European Union provides €75 million for this project, which is preparing the future interoperability standards for European combat aircraft
- Dassault Aviation is coordinating the work of a consortium of 37 industrial and research partners from 11 European countries

Dassault Aviation hosted last February at its Saint-Cloud headquarters (France), the kick-off meeting of the EICACS project (European Initiative for Collaborative Air Combat Standardization) with its European industrial and research partners.

The grant contract, awarded by the European Commission on 19 December 2022, designates Dassault Aviation, recognized for its ability to manage complex cooperative programmes, as the coordinator of this study project, which brings together 37 industrial partners and research organizations from 11 European Union countries.

Supported by the European Union to the tune of 75 M€ within the framework of the 2021 programme of the European Defence Fund (EDF), this project aims to define, within a European framework, the future interoperability standards for collaborative air combat. It will strengthen the ability of European air forces to fulfill their missions ever more effectively and to act in coalitions involving both manned and unmanned systems, future air combat systems and existing platforms, as well as their upgrades.

Dassault Aviation is delighted with the launch of this three-year study works, which brings together the entire European combat aeronautics industry, as well as various research organizations, around a project that is crucial for the European Union's air forces.

The scope of this topic is to propose solutions supported by demonstrations when relevant on the major axis presented above, thus providing air collaborative combat standardised solutions, mission systems evolutivity, standardised effectors interfaces and European sovereignty over AI technologies (tools, methods and libraries).

The proposals must consider manned and unmanned combat platform assets/concepts operated by the participating Member States, from current or upcoming ones to future air combat systems in Europe within an interoperability incremental approach. Future air combat scenarios require to rethink collaboration which is inseparable from an extended interaction between combat aircraft and a diversity of collaborative assets contributing to air combat operations also interfacing with any other domain (air, land, sea, space, cyber, e.g., mission aircraft, tanker, JTAC...). This includes the need to consider interoperability with system of non-EU origin, to provide for compliance with NATO and other coalition situations, to be identified through the high-level operational requirements definition.

The proposals must consider scenarios for air combat operations in contested and highly contested environments at least geographically located in geographic Europe, Northern Africa and Middle-East. This could be complemented (e.g., Air defence and air policing within European airspace) when the common high-level operational requirements will be set up in close alignment with participating Member States' representatives.





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The unmanned 40 CTA turret integrates a generic vetronic architecture which allows an unparalleled modularity resulting in outstanding operational capabilities both in urban areas and open battlefields. Its feeding system based on a carousel and the addition of pods featuring the latest generation of antitank missiles ensure the immediate availability of the right ammunition to defeat any target.

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Leonardo and WZL contract for long-term support of Polish M-346 “Bielik” fleet

Leonardo and Wojskowe Zakłady Lotnicze Nr 1 S.A. (WZL1), part of the PGZ Group, have signed a contract for the long-term support of the Polish Air Force M-346 “Bielik” fleet, improving the existing cooperation.

Leveraging on Leonardo’s significant knowledge and support experience with a global customer base, WZL1’s long experience in supporting the operation of aircraft and systems belonging to the Polish Armed Forces – not to mention the extensive technical, logistic and infrastructural facilities of WZL1 close to the home base of operations for the AJT system - the service support agreement will allow for further increase in fleet availability in order to meet Polish Air Force’s growing needs of training combat pilots.

Leonardo, as the original equipment manufacturer (OEM), will be responsible for the engineering support services resulting from its role in the operation system and supply chain management. WZL1 will act as the main contractor, coordinating the entire process, complementing and supporting areas by which Leonardo is not directly involved. WZL1 is also responsible for direct cooperation with the end user.

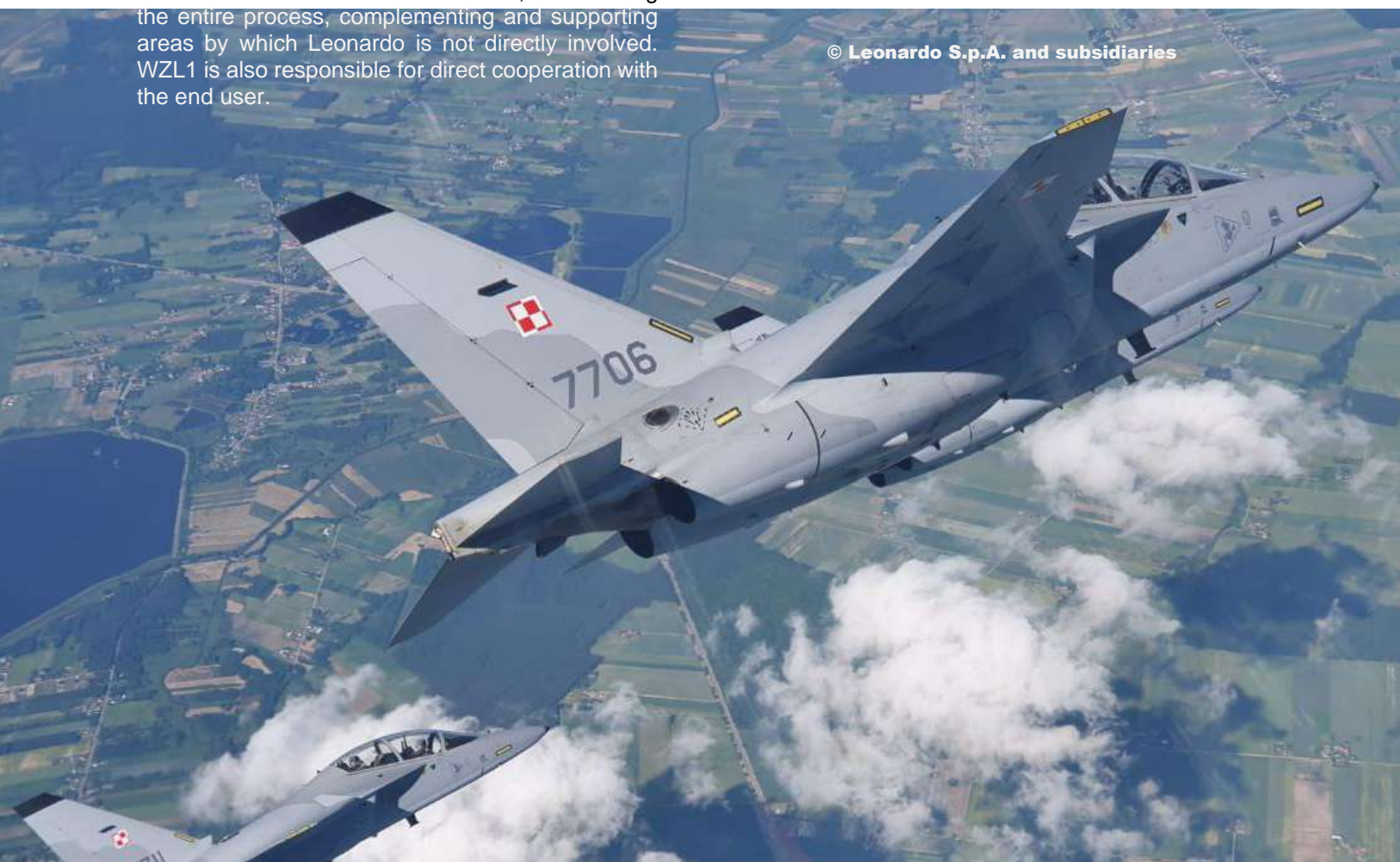
Leonardo also cooperates with WZL1, on the basis of separate agreements, in the process of training and establishing maintenance and repair competences at Wojskowe Zakłady Lotnicze No. 1 S.A. to support the operation of M-346 aircraft with the AJT system.

The experience derived from the support system for the operation of the global fleet of M-346 aircraft aims to guarantee the entire Logistics Support System of “Bielik” high process efficiency and technical and logistic support in the training system. The above thanks to Leonardo’s predictive maintenance approach and the technical and commercial cooperation with WZL1 as an experienced service provider according to global aviation standards.

In February 2014, the Polish Air Force chose the M-346 as the successor to the legendary TS-11 Iskra training aircraft. Then in November 2018, in a ceremony at the Polish Air Force’s 4th Air Training Wing in Dęblin, the M-346 received the official name “Bielik” in Polish service. Since its introduction into the Polish Air Force fleet, the M-346 has been assigned to the 41st Training Air Base in Dęblin. The current fleet of 16 aircraft is the result of two additional batches after Poland’s initial choice.

Poland’s M-346 “Bielik” system has also been certified by the US Air Force for the training of fourth and fifth generation fighter pilots, an important milestone that has enabled Poland to train many of its students at home rather than abroad.

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BAE SYSTEMS TO DEMONSTRATE EMERGING TECHNOLOGIES AT DEFEA 2023

BAE Systems will showcase a wide range of defence and security solutions for land, sea and air at DEFEA 2023. The event, held from 9-11 May, 2023 at Metropolitan Expo in Athens, Greece, will also demonstrate some of BAE Systems' international relationships alongside in-theatre proven and emerging technologies.

From the future of electronic warfare with Storm EW™ to the world's leading infantry fighting vehicle, the CV90; from innovative head-up displays for pilots to naval ships; and from munitions to electric propulsion for municipal transport, heavy-duty and military vehicles, the BAE Systems team will present the breadth of the company's capabilities.

Gabby Costigan, Group Managing Director, Business Development, BAE Systems, said: "For decades, BAE Systems and Greece have worked together to deliver growth and support those who protect Greece and its allies on land, at sea and in the air. Our relationship offers significant potential to strengthen and grow across all these domains and new, critical areas such as cyber security and space. We look forward to sharing our vision for a prosperous, protected future for Greece."

Working closely with partners in Greece, Europe and around the world, BAE Systems delivers advanced defence technology that contributes to national security, keeps critical information and infrastructure safe and supports economic development. With a workforce of more than 90,000 in over 40 countries the company is developing new ways to provide customers with a competitive edge across the air, maritime, land and cyber domains worldwide.

The company's stand at DEFEA 2023 will feature a full-scale CV90 infantry fighting vehicle, as well as exhibits on upgraded Mk45 naval guns, the M109 self-propelled howitzer, APKWS® laser guidance kit and the Assault Amphibious Vehicle, alongside the Hypervelocity Projectile (HVP) munition and naval ship solutions. For the air domain, the digital light engine-enhanced head-up display and Storm EW™, which adds cutting edge electronic warfare

capabilities to any combat aircraft, including the F-16, will also feature. Supporting training and sustainment for these and many other platforms will also be part of the conversations at DEFEA.

Visitors to DEFEA 2023 can locate BAE Systems in Hall 4, stand A12.

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Greece Modernises its Armed Forces and Strengthens its International Defence and Security Collaboration

Let me start by saying that conditions in the wider geopolitical environment are changing, requiring planning and flexibility to meet the demands of the circumstances. I would like also to point that the economic crisis left the Greek Armed Forces without reinforcement in major equipment for at least 10 years. The maintenance of the existing equipment was respectively problematic and for those reasons our government took immediate actions towards

those directions. The initial measure was an increase in the Budget of the Ministry of National Defense from a total of 3.35 billion for Defense in 2020, to 5.44 billion for 2021 and to 6.39 billion for 2022. These increases resulted mainly due to the front-loading payments for contracts for the acquisition of the three «Belharra» Frigates and also the 24 Rafale Fighters, which we started receiving in record time from the signing of the contract.

We are also working constantly to reorganize the structure of the Armed Forces, with an emphasis on increasing the availability of manpower. Also the acquisition of new weapon systems, that overall upgrade the operational capabilities of the Armed Forces, it's not based on impressions, but in the best value for money basis, fitted exclusively to our operational needs and planning.

Modernization programs for the existing and still with great operational value, also started from 2020, with the most emblematic been the F-16 Upgrade Programs (VIPER's and Blk 50+ ADV), for a total of 121 Fighters (83 + 38). We also achieved to conclude major Follow-On Support agreements, for

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the majority of our equipment and our weapons inventory (such as Mirage 2000-5, SCALP missiles etc.).

We are implementing a series of initiatives to strengthen the Armed Forces Personnel. In 2021, we proceeded to recruit approximately 2,600 conscripts per year for the next five years. Our ultimate goal is to achieve the goal of strengthening Human Resources by 15 thousand people in a five-year horizon, contributing to the age renewal and quality upgrade of the staff. We are next to the Military personnel of the Armed Forces with various ways and actions.

At the same time, we secured credits that concern, among other things, the granting of special compensation for night work to military personnel. We have resolved the matter concerning the salary progression of EMTs and OBAs in order to harmonize it with the service and grading progression provided for by law 4609/2019. We are also settling the outstanding issue concerning the allowance of special working conditions for the crews of warships on mission, while the Personnel Welfare Bill is under consultation.

The construction of the International Flight Training Center in Kalamata is progressing, a project that strengthens the strategic relationship between Greece and Israel, which has been developing continuously, in several domains, in recent years, while the issue of the Continuous Support of the C-27s has also been resolved.

Our government also continuously looks for the future of our Armed Forces. The imminent F-35 acquisition program is one of the greatest military projects that took place in the last 40 years. In order for us to begin the delivery of the first four Fighters in 2028, the USG will of course have to respond to the relevant proposal of the Air Force, to settle some technical details that could also mean the involvement of the domestic defense industry in the program.

At the same time, the last two «Vosper» type Missile Patrol Boats were finished to strengthen the Greek Navy, the construction of the new FDI HN "Belharra" Frigates is progressing and the delivery of the first three ROMEO type anti-submarine helicopters is underway within 2023. For the first time in a long time period, thanks to our efforts and consistency, the military power balance between Greece and Turkey begins to change in favor of the Greek side.

However, as it happened with the Frigate Program, we are still waiting for the best offer and for the Corvette Program. Here there is an informal competition between the two «finalists», the French and the Italian side. We are looking continuously primarily to meet needs of the Navy as it defines them. We discussed the French proposal with the French Minister of Defense. And with my Italian counterpart there is an improved Italian proposal. Both proposals as they currently stand are roughly equivalent and attractive. In the final decision, the delivery schedule will be taken into account, on the one hand, and on the other hand, the possibility of building ships in a Greek shipyard. Both companies have made their own special proposal regarding the construction in Greek shipyards and the decision will be decided in the details. At this moment in any case the involvement of the Domestic Defense Industry in the construction of the Corvettes is non-negotiable not only through the shipyards but also through other defense industry companies.

At the domain of defense diplomacy, after the strategic agreement with France and the amendment of the Mutual Defense Cooperation Agreement with the USA, we must underline the agreement we concluded with Egypt on Search and Rescue and which delimits the Areas of Responsibility, and therefore of our own maritime zones.

Nikolaos I. Panagiotopoulos

Minister of National Defence, Hellenic Republic



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© RAFAEL Advanced Defense Systems Ltd

Short-to-Long Range Mobile, Quick Reaction Air Defense Systems

The operational success of RAFAEL's air defense solutions is rooted in their multi-layered network-centric design which provides optimal protection against all current and future threats – from the very, very short range (VVSHORAD) to medium and long-range – assuring air, land, and sea tactical overmatch. One major air defense system that is already been incorporated into the air defense array of other global partners is the SPYDER.

The SPYDER is a quick reaction, low-level surface-to-air missile system designed to counter airborne threats attacks by aircraft, helicopters, UAVs, missiles, rockets and precision guided munitions. The system provides effective protection of valuable assets, and first-class defense for forces located in the combat area is a quick reaction, low-level surface-to-air missile system designed to counter airborne threats attacks by aircraft, helicopters, UAVs, missiles, rockets and precision guided munitions. The system provides effective protection of valuable assets, and first-class defense for forces located in the combat area. SPYDER's open architecture allows external components to be easily integrated and flexibly combined, affording different configurations with various ranges and capabilities based on customer needs and priorities. Its autonomous capabilities can detect threats while on the move and enables a 360° launch within seconds of the target being declared hostile, in all-weather, multi-launch, and net-centric capabilities. All SPYDER systems have multiple target engagement capability for handling saturation attacks.

Earlier this year RAFAEL revealed enhanced capabilities for its SPYDER providing it with counter tactical ballistic missile capability (C-TBM). This upgrade was developed to allow users to cope with the emerging, advanced threats in the rapidly evolving security arena in Europe and worldwide. The capability is the product RAFAEL's Counter-TBM SPYDER program, which involved researching and analyzing the lessons learned from recent and ongoing armed conflicts involving extensive use of tactical ballistic missiles. The program has brought about a practical upgrade to the SPYDER system which is equipped for implementation. In response to urgent operational requests from several existing customers throughout the world, the program will extend the capabilities of the SPYDER's effectors as well as the implementation of various Counter-TBM derivatives across the system.

SPYDER systems incorporate the most advanced air-to-air-missiles with proven performance including the **PYTHON-5** dual waveband IIR missile based on EO seeker technology. As well as the **I-DERBY** missile family utilizing active RF seeker technology. All launchers are equipped with enhanced Toplite EO/IR sensor capability which allows passive engagement from each launcher independently.

The SPYDER All-In-One is the newest variant of our SPYDER system and includes all components including the CCU on one vehicle such as 8x8 platforms. It provides full-operational capability of the SPYDER and allows for greater flexibility in complex battle scenarios. **The SPYDER-ER's** 360° slant launching missile systems provide quick reaction, while extending the range of defense to up to a 40 km radius with a dual pulse motor which increases the effectiveness of confronting maneuverable threats. **The SPYDER-LR** offers long-range target interception through vertical launch while pushing the defense envelope up to an 80 km radius with a triple pulse motor.

The operation of the SPYDER is facilitated by the **MIC⁴AD Command and Control Air Defense Missions**: an advanced, modular, integrated C4I system that commands and controls both air and missile defense missions, MIC⁴AD is the optimal solution for all threats at any command level – national, regional, or tactical. It provides end-to-end, highly automatic air and missile protection, assessing and classifying hostile targets. As a unified command and control system, it optimizes resource management to swiftly determines the most appropriate defense systems like SPYDER or other customer systems - and allocates targets to weapon systems with full, semi-automatic or manual fire control.



Strategic weapon system and service Partner of the Greek Armed Forces



HK416 5.56 x 45 NATO

The ideal combination of handling and precision

www.heckler-koch.com

VULCANO – THE GUIDED AMMUNITION FAMILY

In order to provide armed forces with the capability to engage stationary single targets as well as moving targets at long distances with pin-point accuracy, Diehl Defence has developed, together with its industrial partner LEONARDO, the new guided artillery ammunition VULCANO. The ammunition family combines highest target accuracy.

The combination of satellite-based navigation with laser- or infrared-sensor control makes VULCANO one of the most accurate artillery ammunitions worldwide.

Indirect Fire 127 mm/155 mm

The VULCANO Guided Ammunition Family was developed under a German-Italian government agreement by cooperation of the companies Diehl Defence and Leonardo Electronics – Defence Systems. This new guided ammunition family, comprising the 127 mm type for navies as well as the 155 mm variant for army artillery, is bound to revolutionize the artillery's and navy's indirect fire. The combination of IMU-GPS navigation with the possibility of Terminal Homing based on Semi-Active Laser (SAL) or Far-Infrared (FarIR) sensors enables the VULCANO ammunition to engage even small stationary and moving targets with direct hits at extended ranges

Flight Sequences

The flight sequences of the 127 mm/155 mm ammunition type encompass a Ballistic Flight Path (1) involving initialization and GPS acquisition, a Glide Path (2) with mid-course GPS navigation and Terminal Homing (3) with GPS or SAL mode or FarIR mode (127 mm only), depending on the configuration.

Terminal Homing

VULCANO V127 Guided Long Range HoB/SAL/FarIR

Guided Naval Ammunition

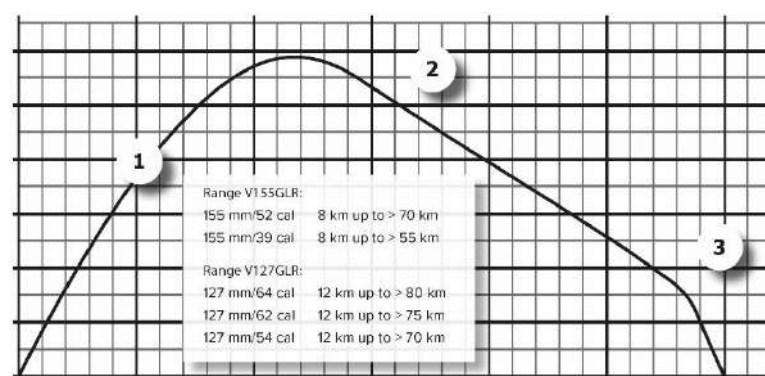
Naval applications are equipped either with Height of Burst (HoB), Semi-Active Laser (SAL) or Far Infrared Sensor (FarIR). The HoB Sensor is used for GPS Guidance towards pre-programmed coordinates. Semi-autonomous Terminal Homing missions are performed with the SAL Sensor. The FarIR Sensor is used for autonomous missions against targets with an IR-signature. The mission spectrum of the VULCANO 127 mm Guided Naval Ammunition includes Naval Fire Support (NFS) and Anti-Surface Warfare (ASuW). The ammunition is particularly capable of engaging stationary or moving single point targets as well as artillery point targets.

VULCANO V155 Guided Long Range HoB/SAL

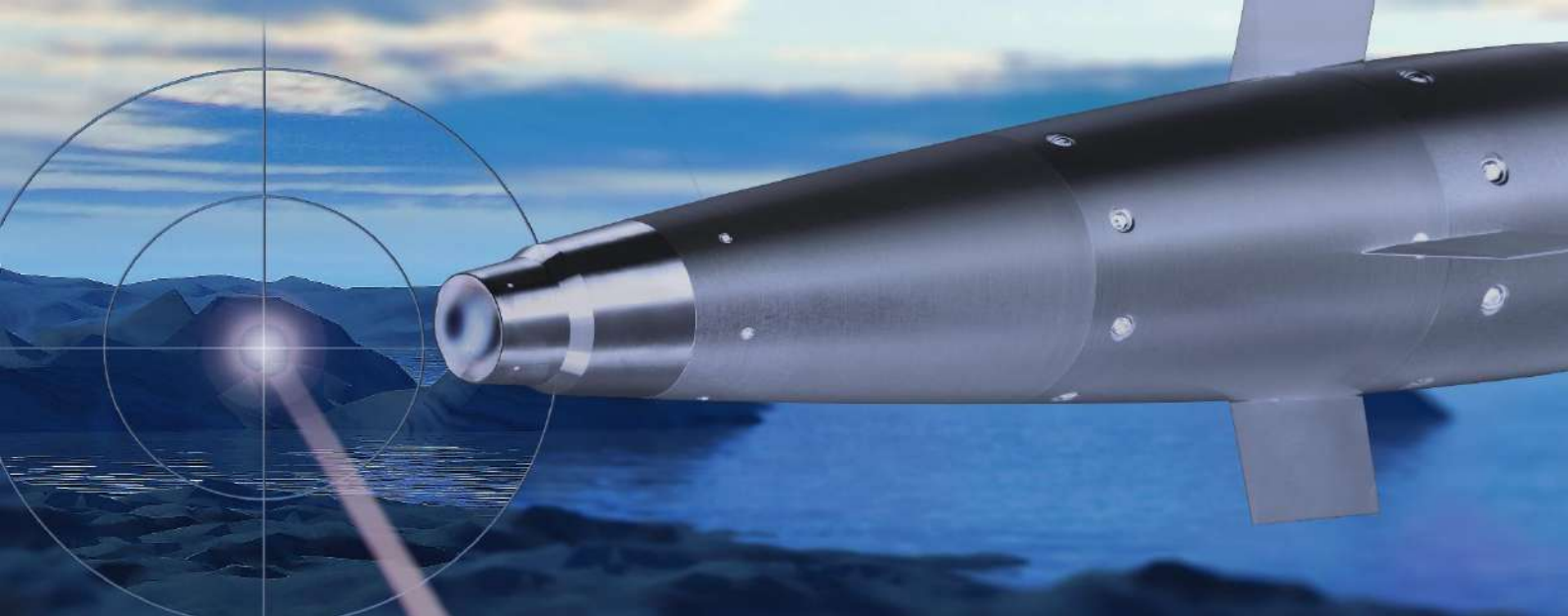
Guided Artillery Ammunition

The VULCANO 155 mm Guided Long Range (GLR) artillery ammunition relies on GPS mid-course guidance – same as V127GLR – and target lock-on by a Semi-Active Laser (SAL) sensor in the Terminal Homing phase for pin-point engagement of stationary or moving ground targets. SAL Terminal Homing also eliminates the target location error. Laser designation will be provided by the human-in-the-loop (or other designator) Joint Fire Support Team (JFST) and offers the possibility of mission abort. Both for 127 mm and 155 mm combining laser sensor with a high-performance preformed-fragmented warhead (PFF) featuring insensitive munition (IM) adds to the capability of accurate target engagement.

© Vulcano_Flight Sequences



- 1 Ballistic Flight Path Initialization, GPS Acquisition
- 2 Glide Path Mid-Course GPS Navigation
- 3 Terminal Homing V155 – GPS or SAL Mode (with GPS as backup)
V127 – GPS, SAL Mode or FarIR Mode (with GPS as backup)



© Vulcano V3 CMYK

Weapon Platforms

- 127mm / 5 inch Gun System

The VULCANO 127 mm Guided Naval Ammunition is fired from the 127 mm/64 Light Weight (LW) and 127/54 Compact Leonardo naval guns which are for example installed in the ship classes F125 Frigate, Multi-Purpose FREMM Frigate, MEKO 360 Frigate as well as in numerous destroyers in navies worldwide. Moreover, the ammunition is compatible with all other 127 mm/5 inch naval gun systems.

- 155 mm / 6 inch Gun System

The VULCANO 155 mm Guided Artillery Ammunition is integrated into a KIT which is adapted in the Fire Control System of various weapon systems. The NABK (NATO Armament Ballistic Kernel) conformal fire command solution is integrated in the PzH2000 and FH70. VULCANO Ammunition is compatible to JBMoU (Joint Ballistic Memorandum of Understanding) procedures. It can be fired from any 155 mm artillery system and allows the unique ability of Coastal Defence including Platoon Mode.



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Rheinmetall's Lynx KF41 – Next Generation IFV for the Hellenic Army

Battlefields around the world are constantly changing. Rheinmetall's Lynx KF41, a contender for the modernization of the Hellenic Mechanized Brigades, has been designed from the start with the built-in capacity to respond to future threats with no compromises to its survivability, lethality and mobility. This allows Lynx KF41 to adapt to today's and future battlefields.

The world's most sophisticated IFV is a strong candidate for Armed Forces around the world, including the US Army's OMFV Program for the replacement of the Bradley IFV and has recently been introduced into service with the Hungarian Defence Force.

Multi Domain Defence

Lynx KF41 is continuously improved and offers an unmatched performance including threats recently seen in Ukraine. Offering a multi domain defence capability Lynx KF41 will support the war fighter against today's and future threats. The Lynx KF41 infantry fighting vehicle (IFV) features a modular protection system, allowing it to be adapted to perform in all modern combat environments and scenarios offering the individually best performance in each situation. Rheinmetall's latest developments in hybrid protection technology form a key part of the Lynx's overall vehicle protection by effectively combining elements of active and passive protection.

Rheinmetall's latest generation active protection system StrikeShield offers protection against the full range of anti-armour projectiles such as shape-charged warheads and anti-tank guided missiles (ATGMs). The systems allow the destruction of these threats in a safe distance from the vehicle protecting the most precious asset, the warfighter. Lynx's StrikeShield system has been successfully tested in multiple environments, and against a wide range of threat types including UAV's and loitering ammunition.

Enhanced situational awareness

Battlefields are dense, complex environments, with potential threats difficult to locate within rural and/or urban spaces. The integration of a wide variety of sensors within Lynx IFV allows the gathering of vast amounts of data on the vehicle surrounding in order to provide the crew with the best situational awareness. In order to respond adequately and timely to emerging threats and to fulfil the mission in the most efficient way Lynx is utilising automation and autonomy within its Situational Awareness suite.

In order to reduce the burden on the crew Rheinmetall's Situational Awareness System (SAS) takes over the burden of gathering, processing and interpreting vast amounts of data while presenting information to the human crew for accelerated decision-making and engagement. The 360-degree surveillance and sensor suite is the state-of-the-art solution for combat vehicles. Infrared and daylight cameras enable the system and its operators to see beyond the limits of human vision at both day and night. A Laser Warning System (LWS) complements the cameras, sending an instantaneous alarm to the main system when laser radiation is detected. Detection, identification and classification is automated to assist the operator in assessing the overall situation allowing more time to make the best decision when required.



LYNX KF 41 of the Hungarian Armed Forces

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'Killer-Killer' functionality

Rheinmetall's Lynx KF41 IFV was designed to combine the utmost lethality with maximum flexibility. This philosophy is embodied in its unique Commander Remote Controlled Weapon Station, the Main Sensor Slaved Armament (MSSA): a dual weapons system enabling outstanding 'Killer-Killer' capability for complex battlefield environments.

The MSSA is an additional secondary weapon system that can be installed on Lynx's digital Lance 2.0 medium calibre turret. Utilising the commander's sight independent of the gunner's main armament sight the systems allows the commander to identify additional targets independent of the turrets position. Utilising the secondary armament the commander than has the choice to engage targets or handover targets to the rest of the crew. The MSSA is fully integrated into the Lance's drive and fire control system providing a true 'killer-killer' capability. In 'Hunter-Killer' mode, the commander identifies targets while the gunner engages them using the main weapon. In "Killer-Killer" mode, the gunner operates the main weapon while the commander operates the MSSA, allowing multiple targets to be engaged simultaneously.

This provides Lynx crews with a significant advantage in close-combat environments, such as urban battlegrounds or in a highly congested scenario. When crews need to respond fast to threats from all angles, such as Unmanned Aerial Vehicles (UAVs) or shooters on rooftops, having two separately operable weapons systems allows much-needed flexibility and rapid response capabilities increasing the lethality and survivability of the platform and its crew.

Fully integrated ATGM**Launcher & Loitering ammunition**

Lynx can be fitted with an ATGM launcher capable of firing Spike LR missiles from the turret. The flexible mission pod on the Lance 2.0 turret can be fitted with a variety of other subsystems for specific

roles and missions, including an electronic warfare capability and non-line-of-sight strike loitering munitions. The crew can even launch UAV's from the vehicle to gain critical and invaluable surveillance information for the crew and mission commanders.

Built-in capacity for growth

Given the average lifetime of IFVs the capability and growth potential to integrate future systems is a key requirement. Additional protection or adaptation of system to meet future threats and requirements can weight limits mobility and continuously growing put an increased burden on the system. Increasing demand for power and space can lead to the requirement to replace legacy vehicles fleets.

Rheinmetall's Lynx KF41 has been designed with present and future battlefields in mind. A modular protection concept allows the adjustment of armour without overloading the vehicle or compromising long-term use. Configured for peace-stability-operations Lynx weighs less than 40 tonnes, allowing for growth of 10 tonnes before Lynx reaches it maximum weight of 50 tonnes.

Even when armoured to the maximum level, including crew and mission systems Lynx offers more than 2 tonnes of free payload. This additional capacity gives Lynx users the security of knowing that future additional armour installation, advanced protection measures, and other systems may be fitted without affecting performance.

In conclusion, the Lynx KF41 is the combat system offering 21st century performance with best in-class survivability, lethality and mobility to the Hellenic Army. Lynx's inherent modularity and growth potential enable it to evolve as requirements and threats change. Adaptable, agile and hard-hitting, Lynx embodies a mature yet future proof platform perfectly suited for strengthening joint resilience. Going beyond the capability, Lynx also plays a key role in boosting the local industry and job creation.

Spike Anti-Tank-Guided-Missile (ATGM)

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© CZ BREN 2

High Performance Firearms for the Military

Since its founding in 1936, CZ has designed and manufactured precision-engineered firearms for the military that provide impressive accuracy, durable construction and high reliability across a range of demanding environmental conditions. As a result, CZ firearms have become a popular choice for armed forces and special units around the world.

A complete portfolio of military firearms for current, real-world needs

The wide offer of CZ military firearms includes striker-fired (CZ P-10 NATO) and hammer-fired (CZ P-09/07 NATO) service pistols, sub guns (CZ SCORPION EVO 3 A1), select fire rifles (CZ BREN 2), next generation rifles (CZ BREN 2 BR, CZ BREN 2 DMR), grenade launchers (CZ 805 G1) and sniper rifles (CZ TSR).

Developed together with top military professionals

CZ works together with former military personnel and elite armed forces for the design and development of its firearms. It also relies on feedback from active members of the military regarding features, ergonomics and operation of their firearms to further ensure they meet with the constantly evolving demands of today's combat and missions around the world.

State-of-the-art manufacturing

The CZ factory, which is located in the Czech city of Uhersky Brod, is equipped with the most advanced machinery and manufacturing processes, which include robotics, fully automated turning and milling machines, in-house cold hammer forging of barrels, and special surface finishes that dramatically extend the durability and service life of its military-grade products.

Its quality control process involves hundreds of inspections throughout the manufacturing process, which include the use of lasers that measure tolerances down to a thousandth of a millimeter, allowing CZ to meet the highest global manufacturing standards.

CZ P-10 service pistols

Service pistols in the CZ P-10 NATO series are available in a comprehensive range of sizes – full-size, compact, subcompact and micro – to meet the full needs of today's armed forces. All models come with a fiberglass-reinforced polymer frame for extreme durability and high resistance to adverse weather. They are also equipped with a cold hammer forged barrel for ensuring a long service life and high accuracy. Advanced ergonomics include front and rear cocking serrations for impeccable grip and handling, a flat ambidextrous slide stop for snag-free removal from holsters, a swappable magazine release for left- and right-handed shooters, and three sizes of interchangeable backstraps for user-adjustment of grip and finger reach. A high level of safety, including drop safety, is ensured by its automatic striker block, trigger bar safety and trigger safety.

CZ SCORPION EVO 3 A1 Sub Gun

The CZ SCORPION EVO 3 A1 is a light, automatic sub gun chambered in 9 x 19 or 9 x 19 NATO. Extreme durability and reliability in all types of combat conditions are due in part to its simplified construction, which uses fewer components. This design also allows for easy, tool-free breakdown in the field for maintenance and cleaning. Its patented blowback design, which is a combination of a highly durable dynamic breech and removable trigger housing, ensures rock solid operation and high reliability. And breaking with the practice of its competitors, the CZ SCORPION EVO 3 A1 comes with a firing pin block to deliver a safer experience for soldiers in the field. Advanced ergonomics include a non-reciprocating charging handle positioned within close reach of your hand, which allows for quicker access and more convenient operation. It's also swappable from side-to-side,

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making it left- and right-hand friendly. Ambidextrous safeties, an easily accessible bolt catch/release and an adjustable pistol grip radius for fine-tuning reach, further add to its leading ergonomics and shooting comfort.

A flared and tapered magwell ensures the fastest reloading speeds in its category. A light, durable and easy to remove folding/extendable fiberglass-reinforced stock allows for quick and convenient switches from rifle to pistol use, and back again.

It comes with a highly effective flash hider as standard and features MIL-STD-1913 rails across the top of the upper receiver, as well as at the 3, 6 and 9 o'clock positions, for mounting optics, lights or accessories.

CZ BREN 2 and CZ BREN 2 DMR Select Fire Rifles

The CZ BREN 2 is an advanced select fire rifle platform that delivers extreme accuracy, rock solid reliability and leading durability. It's available in two battle-proven calibers and three barrels lengths, 5,56 x 45 NATO (8", 11" or 14" barrel) and 7,62 x 39 (9", 11" or 14" barrel). One of its special features is a multi-caliber system, which allows for easy transitions between calibers for adapting to a wide range of operations and battle environments.

A folding, fiber-reinforced polymer stock ensures both accurate shooting at longer distances and easier movement in close quarters, but if more compact dimensions are required, a four-position telescopic stock is available on models with the 8" barrel (5,56 x 45 NATO caliber) and 9" barrel (7,62 x 39 caliber).

Ambidextrous/Adjustable controls and an adjustable, non-reciprocating charging handle that's swappable from side-to-side makes the CZ BREN 2 comfortable and easy to operate for both right- and left-handed shooters. Its pistol grip comes with interchangeable backstraps for adjusting grip and finger reach, and features a special storage space for sight batteries, reserve components or other accessories. An interchangeable forend also adds to its ergonomic design.

A 30 round carbon fiber-reinforced magazine, which comes as standard equipment, ensures extreme toughness and allows for quick, trouble-free loading into the flared magwell manufactured to NATO standards.

The newest addition to the select fire rifle portfolio is the CZ BREN 2 DMR, a next generation model chambered in 7.62 x 51 NATO. It can effectively engage targets at up to 600 m and shoot accurately at up to 800 m.

© CZ SCORPION EVO 3 A1



CZ is part of Colt CZ Group SE and one of its key brands. Colt CZ Group SE, together with its subsidiaries, is one of the world's leading manufacturers of firearms and tactical accessories for military and law enforcement, personal defense, hunting, sport shooting and other commercial use. Additional companies in the group include Colt, Colt Canada, CZ-USA, 4M Systems, Spuhr i Dalby and Colt CZ Defence Solutions. Colt CZ Group SE is headquartered in the Czech Republic and has production facilities in the Czech Republic, the United States, Canada, and Sweden. It currently employs more than 2,000 people in the Czech Republic, United States, Canada, Germany, and Sweden. Colt CZ is 76.9% owned by Česká zbrojovka Partners SE, with the remaining 23.1% being a free float.

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Heckler & Koch



Heckler & Koch is a leading small arms manufacturer firmly rooted in Germany. For over 70 years, the company has been a dependable partner to security forces, police, armed forces and special forces of EU and NATO states and NATO-equivalent countries.

Heckler & Koch stands for superlative quality and safety standards, as well as innovative products. The internationally operating group of companies based in Oberndorf am Neckar has subsidiaries in the USA, France and the United Kingdom.

Green-Country Strategy

We have implemented a “Green-Country Strategy” and as a general rule only supply our arms to NATO, EU and NATO-equivalent states. This makes Heckler & Koch a pioneer in the arms industry for ethical and moral arms sales.

Product portfolio

Heckler & Koch is the only small arms supplier with a comprehensive product portfolio. The product range comprises pistols, sub-machine guns, assault rifles, precision weapons, machine guns, training systems, 40 mm systems, as well as munition feeding systems for combat aircraft.

HDS Co-Production

Unique co-production experience for more than 40 years with Hellenic Defence Systems (HDS):

- Rifle G3 (various types)
- Pistol USP Compact
- Submachine Gun MP5
- Grenade Machine Guns GMG

Benefits

- Superior and combat proven weapons for military and police applications
Modularity, Reliability, Precision, Quality, Performance)
- Strengthen HDS as the technical weapon expert, supplier and service partner for the Greek military and police forces
- Guaranteed Workload and Employment
- Invest in employees/students/apprentices assures technical competence/capability sustainably
- Joint Programs (such as 40 mm-Ammunition for HK France)

SCHIEBEL AND THALES AWARDED ROYAL NAVY CONTRACT BY UK MINISTRY OF DEFENCE

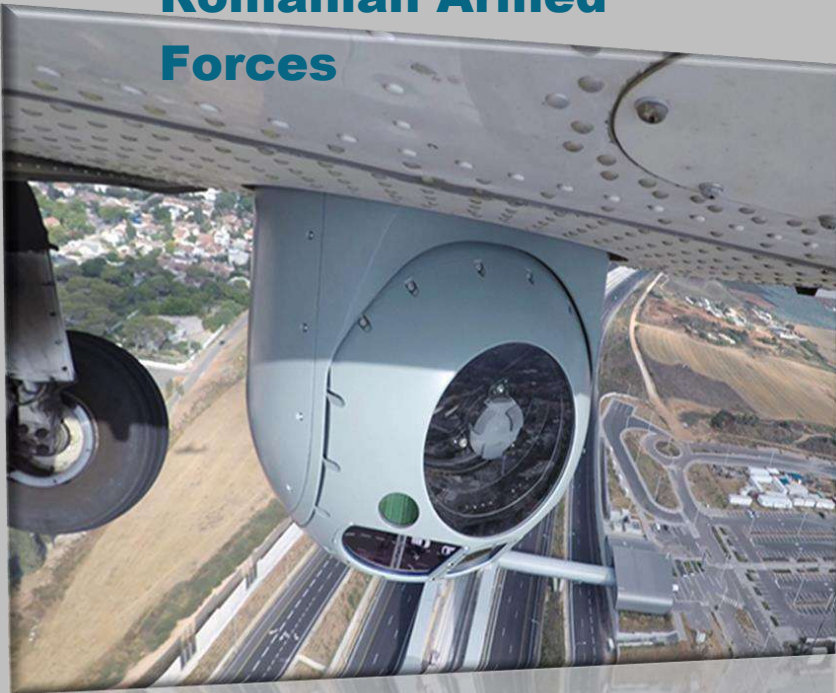
Schiebel and Thales have been awarded the Uncrewed Air Systems (UAS) contract “Peregrine” by the UK Ministry of Defence. This prestigious contract award will deliver the unrivalled CAMCOPTER® S-100 UAS, fitted with a powerful naval surveillance sensor suite, to provide a comprehensive maritime capability protecting Royal Navy ships on operational tasks. Schiebel, together with system integrator Thales, will provide the operationally proven S-100 with a range of high precision Intelligence, Surveillance and Reconnaissance (ISR) sensors and systems. The Thales I-Master radar, an EO/IR camera, and an Automatic Identification System (AIS), all fused with the CarteNav’s AIMS Mission System

enables an all-weather detection and identification capability of unknown targets. The S-100’s rapid launch ability, superior mission endurance and high quality sensors combine to find, track and identify targets providing additional protection for the ship and its crew. High-definition imagery and radar data downloaded to the system operator and transmitted in real-time into the ship’s Combat Management System (CMS), will provide the crew with invaluable time to prepare and enact operational decisions. Hans Georg Schiebel, Chairman of the Schiebel Group, said: “We are immensely proud that the CAMCOPTER® S-100 is the UK Ministry of Defence’s choice for its prestigious Peregrine programme. The S-100 is the optimal UAS for a growing number of Navies worldwide and has proven its superiority and outstanding capabilities throughout its numerous operational deployments.”



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Elbit Systems Awarded Four Contracts to Supply Solutions to the Romanian Armed Forces



© Elbit Systems SPECTRO XR payload

Elbit Systems Ltd. was awarded four contracts to supply the Romanian Ministry of National Defense with aircraft upgrades as well as electronic warfare suites, electro-optical infrared (EOIR) payloads and Brightnite™ systems for the IAR 300 helicopters.

As part of one of the contracts, the Company will integrate Elbit Systems SPECTRO XR™ payload onto IAR 330 helicopters to enhance the Romanian Navy's operational capabilities. This contract, which follows a successful upgrade of the Romanian Navy's IAR helicopters, will be performed over the coming year.

In a second contract, Elbit Systems will supply a comprehensive electronic warfare (EW) suite including Radar Warning Receiver (RWR), Laser Warning System (LWS), Infrared Missile Warning System (IR MWS) and Counter Measure Dispensing System (CMDS). The suites will be supplied to a domestic supplier for the installation and integration onboard six PUMA helicopters with an option for an additional six in the future. The

contract is a follow-on order to additional EW suites that are already installed other Romanian Armed Forces' platforms. It will be carried out over a period of three years. The Company will also provide, as part of a third contract, Elbit Systems HDTs type head systems, SPECTRO XR electro-optical systems and an aircraft mission package that includes smart displays, digital maps and reconnaissance systems. Elbit Systems will also supply Brightnite™ systems to IAR Brasov for the Romanian Air Force's Puma 330 SAR helicopters. This contract will be carried out over two years.

The SPECTRO XR multi-spectral electro-optical payload is a leap forward in complex intelligence, surveillance, target acquisition and reconnaissance capabilities. Suitable for today's operational complexity, the lightweight payload system is designed for day-and-night extended-range surveillance under various weather conditions. It also provides continuous target scanning capabilities for enhanced situational awareness.

The BrightNite system is designed to overcome visibility limitations and enable to safely and effectively fly mission helicopters in pitch dark nights and in DVE conditions including poor weather conditions, brownouts, whiteouts and sandstorms.

It transmits high-resolution video to the Helmet-Mounted Display (HMD), enabling pilots to fly in a head-up, eyes-out position. The system can present information to multiple pilots simultaneously on an intuitive multi-functional display. Under a fourth contract, Elbit Systems will supply advanced avionic suites, live training embedded virtual avionics system, advanced monitors, overhead display, navigation system and weapons activation systems to Avioane Craiova that is upgrading the Romanian Air Force's (RoAF) IAR99 advanced fighter trainer aircraft.

The IAR99 SOIM is an advanced trainer, and the upgrade will support the an effective transition of RoAF pilots to fighter aircraft, including the Romanian Air Force's F-16s. The contract will be carried out over a period of four years. This upgrade program follows a previous contract for the Romanian Air Force's trainer aircraft in collaboration with Avioane Craiova and was awarded approximately 25 years after Elbit Systems first contract to upgrade the IAR99 aircraft.

Ran Kril, Executive Vice President International Marketing & Business Development of Elbit Systems: "These contracts extend Elbit Systems' track record delivering successful projects to the Romanian Armed Forces, including follow-on contracts awarded after Elbit Systems first was contracted to upgrade helicopters and aircraft."

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Pratt & Whitney Awarded F135 Production Contract for Lots 15-17

On 6 March 2023, Pratt & Whitney, a Raytheon Technologies business, announced that it has been awarded a \$5.2 billion contract to support production of the 15th and 16th lots of F135 engines, with an option to award a 17th Lot, powering all three variants of the F-35 Lightning II fighter aircraft.

"This marks a major milestone for the program," said Jen Latka, Pratt & Whitney's vice president for the F135 program.

The Lots 15-17 production contract funds production of 278 F135 engines with an option to order up to a total of 518 engines. The contract also includes program management, engineering support, production support and tooling. The total contract value for lots 15-17, with exercised options, is approximately \$8 billion and will fund over 418 F135 engines with options for the U.S. as well as international customers.

"This marks a major milestone for the program," said Jen Latka, Pratt & Whitney's vice president for the F135 program. "This contract award enables us

to continue delivering critical 5th Generation propulsion capability to the warfighter at a fair and reasonable cost for the taxpayer."

Since program inception, Pratt & Whitney's "war on cost" efforts have reduced the average unit cost of an F135 by more than 50 percent, contributing to an estimated \$8.1 billion in cumulative engine savings over the life of the program.

Pratt & Whitney worked aggressively to drive production efficiencies, optimize its supply base as well as invest in strategic initiatives -- such as the new turbine airfoil facility in Asheville, North Carolina -- to reduce cost wherever possible.

Evolved from the F119 engine powering the F-22 Raptor, the F135 is the most powerful and most advanced fighter engine in the world, delivering a step change in capability over the previous generation of engines. This includes a substantial increase in thermal management capacity enabling the full spectrum of F-35 weapons and sensor capabilities; a precise and responsive integrated engine control system allowing the pilot to focus squarely on the mission; and an unmatched low observable signature enabling the F-35 to conduct operations in modern Anti-Access/Area Denial (A2AD) environments.

The F135 program is a major driver of economic growth around the country, supporting more than 53,000 jobs across 36 states. As of December 2022, Pratt & Whitney has delivered more than 1,000 F135 production engines.

© Pratt_Whitney_F135



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Nexter and SOGECLAIR, to jointly develop land robots for the French Army

These two major players in French military robotics are combining their complementary know-how: Nexter, leading land defense company in France and Europe, is contributing its recognised skills in architecture, system integration and robotic systems, while SERA Ingénierie (SOGECLAIR), specialized in the design and manufacturing of special vehicles and mission systems, will contribute its recognised expertise in the fields of mechanical design and production of defense and security platforms, civil and simulation applications. This partnership aims to offer sovereign and state-of-the-art military robotics solutions.

Leader in the field of counter-mining, simulation and dynamic behaviour of vehicles, SERA Ingénierie (SOGECLAIR) provides its expertise in land mobility with its new PHOBOS platform. Resulting from 10 years of investment, PHOBOS is designed around three strategic axes: mobility, autonomy and modular architecture. This multipurpose robotic carrier of less than two tons net weight, and with one-ton payload has been designed to

accommodate all types of mission kits (toolsensors, effectors). Its four independent wheels with reinforced suspension allow it to follow easily at high speed the tracks of armoured vehicles on any type of terrain. In addition, its thermal engine and its large fuel tank ensure the electrical and hydraulic supply of all embedded equipment. The PHOBOS will also be available in a hybrid or electric version.

As a reference industrial prime contractor, Nexter brings its knowledge of the operational environment and its constraints (such as operating safety or cyber protection), as well as its know-how in manned and unmanned systems architecture. In the field of robotics, Nexter is developing an autonomous mobility kit combining assisted remote operation with autonomous capabilities that can be used in hostile environments (personnel tracking, route tracking, convoy tracking, rallying to a point of interest, etc.), thanks to major investments made over the past 10 years. The human-robot relationship is particularly explored in order to have an optimised human-robot system where the contribution of each entity is adjusted as well as possible and in real time, whatever the tactical situation.

One of the first joint projects concerns the design of an investigation robot aimed at meeting the needs of engineering units. For this purpose, the PHOBOS

platform is distinguished by its adaptation to the operational needs of this device by combining mobility, ergonomics and a small logistic footprint. For example, PHOBOS can easily be towed by all-terrain vehicles over long distances or even airborne. Thanks to its advanced robotic architecture, this robot will carry out dangerous missions such as counter-mining while ensuring the safety of its operators.

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DEFEA 2023 SHOW DAILY

ARQUUS PRESENTS THE NEW VBL MK3 AT IDEX 2023

The VBL (Véhicule Blindé Léger, Light Armored Vehicle) MK3 is the latest and most advanced version of the famous Panhard VBL, which is already in service within several armies in the Gulf and around the world. As a fully new development, the VBL MK3 benefits from several upgrades compared with the first VBL. The VBL MK3 benefits from an excellent mobility. It is equipped with a 130hp modern, diesel engine and a new automatic gearbox, allowing speed and acceleration as well as added comfort for the pilot. It features a new Brake Assist system and improved front and rear suspension systems, increasing the payload and improving vehicle handling.

It is also equipped with centralized tyre inflation system (CTIS) which allows for a better adaptation to the terrain conditions and improves the mobility on soft ground, especially on sand. It is equipped from a new dashboard, allowing for a better management of the vehicle and its tactical situation. A compact vehicle, the VBL MK3 is a steed of choice for scouting and reconnaissance, as well as intelligence gathering missions. It can also serve as a wingman for a tank or be configured as an anti-tank vehicle with an ATGM team aboard.

Small and discreet, it is hard to spot, hard to acquire and hard to hit, while easily hiding behind terrain or obstacles and swiftly moving from cover to cover. The VBL MK3 is fitted with a Hornet RCWS with an AKERON anti-tank missile launcher, specifically thought for anti-tank combat and developed with missile leader MBDA.

The recent combat experience has shown that anti-tank combat capabilities are key in a highly contested, highly intense battlefield. The large number of armored targets, and the rhythm of combat operations call for the integration of multiple anti-tank weapons on armored vehicles, to allow for tank-hunting and collaborative combat capabilities, or to provide with self-defense options in case of an unplanned encounter with enemy assets.

Such a capability is now integrated in the Hornet RCWS, which now offers anti-tank capabilities on top of its native qualities. The Akeron missile is integrated on the side of the RCWS, which preserves the compact size of the Hornet and contributes to its stealth. That configuration is very sensible on the VBL MK3 due to its size and stealth.



© Arquus

It is also a welcome addition for increased anti-tank capabilities to engage a target of opportunity close to the front lines or defend itself against an unplanned heavier threat such as a tank or an IFV. That configuration reminds of the VBL Milan while adding several operational capabilities offered both by the missile integration on the RCWS and the AKERON missile itself.

With the Hornet AKERON, the VBL MK3 can be used as a tank killer. With its high mobility and compact silhouette, it is a perfect vehicle for infiltration. The VBL MK3 will be able to scout while in movement and to shoot from inside the vehicle with the Hornet AKERON or from outside the vehicle with an AKERON firing station. Several other configurations can be derived from the VBL MK3's proven concept, depending on the mission at hand.

Developed by Panhard in the late 1980s, the VBL has entered service in the French Army from 1990 to handle reconnaissance, intelligence, and surveillance missions, as well as multipurpose transport under armor. It immediately received great interest for its compactness and low silhouette, its high mobility and its protection, including in an CBN (Chemical, Biological, Nuclear) environment.

An excellent base, the VBL has taken a very wide variety of roles for which it was not originally designed. It has constantly evolved to serve new purposes and counter new threats. Among its numerous versions: Scout, Command Post, Reconnaissance, with a 12.7mm or a 40mm grenade launcher on top, Anti-tank, designed to load a Milan, Eryx or AT4CS launcher combat group. Tailored export versions also include TOW launchers, 20-mm cannons, or even SHORAD capabilities with the VBL ALBI which loads 2 Mistral2 AA missiles on top. The VBL also serves as the Leclerc tank's wingman, both finding its targets and ensuring its close-quarters protection.

DEFEA 2023 SHOW DAILY

EMTAN

MILITARY & LAW ENFORCEMENT

EMTAN, is an Israeli Manufacturer of small arms, guns and weapons with over 40 years of experience and knowledge.

EMTAN employs over 120 skilled personals in a sophisticated computerize facilities that insures optimized manufacturing and quality assurance all this in order to deliver the end-user a reliable robust weapon within budget.

EMTAN manufacture the MZ Rifle range:

- MZ-4 Fully Automatic rifle in caliber 5.56 NATO
- MZ-4 P Piston operated Fully Automatic rifle in caliber 5.56 NATO
- MZ-47 Fully Automatic rifle in caliber 7.62X39 to suite AK47 magazine and accessories
- MZ-10 Fully Automatic rifle in caliber 7.62 NATO
- MZ-300 Fully Automatic rifle in caliber 300 Blackout for operations with silencers
- MZ-9 Fully Automatic sub machine gun in Caliber 9mm NAT
- MZ-15 Sami Automatic rifle in caliber 5.56 NATO or 223 for commercial, hunting and sport use
- Ramon Pistol 9mm



Key Products for the NATO and European defense forces:

- EMTAN RAMON-9MM NATO Caliber PISTOL Designed with Israeli Combat experience. Barrel Life: Exceeds 20,000 Rds. NATO AC225 Compliance Used by Israel AND European forces and 40 countries additionally.
- MZ-4 -P Fully Automatic rifle in caliber 5.56 NATO Advanced Piston System. Designed with Israeli Combat experience. Light weight, 3.1Kg Commonality with M4 Rifles used by most NATO forces. Barrel Life: Exceeds 20,000 Rds. NATO AC225 Compliance Used by Israel forces and European forces and additional 40 countries globally.

Hunna's USB-Sanitation System

Hunna's USB-Sanitation System helps secure your systems and mitigate cyber threats related to portable media. In today's world, information security is a top priority for any organization, especially those in the armed forces, defence industry and national security. With the increasing use of portable media and the proliferation of cyber threats, it is critical to protect your IT-systems from potential vulnerabilities.

That's where Hunna comes in. Hunna is a Swedish company with extensive experience in secure development, vulnerability research, and both defensive and offensive hacking methods. Our expertise allows us to understand and work with security requirements and develop impactful products.

Hunna's USB sanitisation system is a cutting-edge technology that mitigates information security risks associated with portable media, such as malware, and hardware-based attacks such as BadUSB.

These threats can result in information leakage, system failure and manipulated information. With Hunna's USB sanitisation system, you can rest assured that your IT-systems are protected. Hunna is excited to showcase our USB sanitisation system at DEFEA 2023 to a diverse group of international attendees. We are committed to providing top-level information security and risk management and are eager to explore how we can be of service to potentials customers.



DEFEA 2023 SHOW DAILY

“SAN Ltd. Unveils Electro-Hydraulic Breaching Gear for Quick Access in High-Stress Situation”

Tactical operators face many obstacles during missions, such as doors and windows that prevent quick access to the operation target. In these high-stress situations, time is of the essence, and breaching tools are essential to quickly overcome these barriers. SAN Tactical Breaching from Israel has developed an innovative solution that incorporates electro-hydraulic breaching gear, which will be showcased at the Israeli Ministry of Defence pavilion Hall 2 – booth A2. The SAN Tactical Breaching Solutions are based on light materials, allowing operators to carry a powerful set of tools that can break into any structure with top speed. The system is supported by a battery-powered hydraulic pump, integrated into a backpack that is sufficient for 25 door breaches at one charge. With hydraulic pressure, no obstacle will stop operators from reaching their target. According to Itai Nakash, VP Business Development at SAN Ltd., “Fast Response, Mobility,



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and Multi-functional capabilities are major elements that enable the defense and rescue forces to perform their tasks in maximum capability, therefore, we continue to develop, manufacture, and design lighter and more compact kits to meet optimal operational requirements. Our solution was created FOR Breaches BY Breachers!”

The breaching capability has been implemented as the leading method of entry by IDF (Israel defense forces) as well as police and firefighter units around the world. SAN breaching tools are deployed in over 38 countries in North and Latin America, Europe, Asia, Australia, and Africa.

EXAVISION presents its NEMOSYS

EXAVISION, a brand of Equans, global leader in the energy and services industry, presents its NEMOSYS product range for middle and long-range surveillance and observation applications.

NEMOSYS is a modular range of EO/IR optronic solutions integrated on an accurate Pan & Tilt, used for 24/7 applications. This product range combines continuous optical zooms on both Full HD color camera and HD/VGA cooled (Band II MWIR) thermal camera, allowing target detection beyond 25km.

NEMOSYS brings new users’ benefits, such as longer ranges and wider fields of view, significantly improving surveillance, detection and identification capabilities. It has been designed and developed to provide customers with robust, easy-to-use and performing systems.

NEMOSYS also proposes, as an option, an additional 20km range Laser Range Finder, directly bore sighted with EO camera.

NEMOSYS is based on EXAVISION know-how and 33 years of experience in designing multi-sensor



© EXAVISION

equipment. Associated with VIGISENS software and linked to radar or detection devices, NEMOSYS is dedicated to:

- Sensitive and Critical Infrastructure Protection as military camps and airports,
- Border control,
- Coastal, maritime surveillance and VTS,
- Counter UAV application



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