



EODH at EUROSATORY 2022

20 June 2022

The Hellenic company EODH S.A., based in Lakkoma, Halkidiki participated in the International Exhibition of Defense Material EUROSATORY 2022, (German Pavilion HALL 6 - K631) where presented the latest developments in the field of protection of Heavy MBTs, Armored Fighting Vehicles and Light Armored Vehicles.

In the booth, EODH presented the new High Mobility Armored Vehicle 4x4 "**Hoplite**" which incorporates many innovations and provides an excellent balance between the mobility and the protection. Aiming to cover National and International requirements in high mobility multi-role armored vehicles, EODH developed a new generation vehicle with its own resources, with modular design and high performance, suitable to cover a wide range of Military and internal security missions. The EODH's design team, using tested sub-systems by specialized companies of known prestige, designed a vehicle of high operational value, which stands out for a plethora of innovations and at the same time integrates top level of protection for its class. The main goal of the new design is to create a basic platform with a maximum gross weight of 12 tons and a payload of 2 tons, easily adaptable to different roles, with main features such as the Strategic and Tactical mobility, the great reliability and operational readiness with the least possible Logistics, the high survivability and the capability conducting business under any circumstances. All these are offered at a reasonable cost and without compromising the comfort as well as the safety and the ergonomics for the crew and the transferred team. EODH also presented the widely known and Combat Proven KMW 4x4 Dingo II with the protection upgrade package ASPIS D-Force.

Additionally, EODH presented for first time the heavy version of the advanced protection system "**ASPIS Modular NG - MBT**" (ASPIS - Advanced Shielding Platform Integrated System), installed in a Leopard 2A4 turret designed as a complete hybrid solution that combines passive

and active protection elements in the front arch to cope with modern threats such as tandem double warhead ATGMs and the new generation of long-rod APFSDS kinetic energy rounds. The design is suitable for multiple hits, and in case of a pertinent hit on the armor, the armor modules can be easily replaced in field conditions by the crew. The solution proposed by EODH can be applied as an upgrade of existing MBTs or integrated into new designs and meets the new challenge posed by attack Drones, Loitering Ammunitions, and the new ATGM missiles of the Fire & Forget parabolic trajectory that attack the MBT at the top of the turret.

Also in the booth, EODH presented a combined mock-up of a Light and Medium Combat Vehicle; the layout of the "**ASPIS**" integrated protection system with the use of a new generation of passive and active protecting materials. Moreover, EODH presented the special anti-mine protection design, combined with anti-shock seats which are supported by innovative arms that absorb an amount of the explosion, protecting the transported personnel from neck and spinal injuries. In addition, the advanced roof shield is designed to provide protection against fragments from time-fused artillery munitions, shaped charge bomblets, and insults from light A/T launchers, fired from building terraces in urban warfare scenarios. The outer layer of ASPIS is implemented by specially designed signature reduction surfaces, that thanks to their geometry and special coatings, they achieve the reduction of thermal (IR) and electromagnetic signature (RCS). Finally, there are new-generation anti-fragment and high-efficiency liners that, in the case of penetration of the shield, they achieve a drastic reduction of the number of the fragments as well as the degree of dispersion of the fragments.

As part of the ASPIS family, EODH presented for first time the new advanced materials solutions consisted of novel laminated structures reinforced by nanomaterials. The results of the new solutions have already tested and obtained excellent results. Further tests will follow for the certification of the new products. Pertinent publications and patents have been launched. Part of this research has been co-financed by the European Regional Development Fund of the European Union and Greek national funds through the Operational Program Competitiveness, Entrepreneurship and Innovation, under the call RESEARCH – CREATE – INNOVATE (project code: T1EDK-04429).

With over 19 years of track record, EODH has resorted to its own state-of-the-art manufacturing facility, consistently pursuing its dedicated investment and growth plans. As a result, EODH has become

an important global partner in the design, development and manufacturing of all types of protection systems in the defense market, with activities in Greece, Europe and the Middle East. By providing innovative and tailored made solutions for today's specific needs EODH became one of the preferred partners in the LEO 2A7 and Boxer 8x8 productions as well in other modern AFV.



Co-financed by Greece and the European Union