SHADOW RIDER IS READY FOR DUTY

The utilization of Unmanned Ground Vehicles (UGVs) is becoming increasingly common in the modern battlefield, where unconventional threats are inevitable. Unmanned systems have become the focus of modern armies with their superior capabilities that let them to take part in high and low intensity operations and hazardous environments, thereby their role has become increasingly indispensable.

In this direction, FNSS exhibited its unmanned ground vehicle "SHADOW RIDER" Heavy Class Unmanned Ground vehicle (H-UGV) concept which is based on the M113 platform, at the IDEF International Defense Industry Exhibition for the first time in 2019. Later, in 2021, the autonomous H-UGV with an increased number of sensors selected according to the different conditions of the battlefield and situational awareness systems, was exhibited together with the software development simulator, again at the IDEF`21 Exhibition.

Today, the SHADOW RIDER has landed on the field as an optionally manned combat system with remote control or autonomous capability. SHADOW RIDER has been successfully used in an international military live exercise at the real-life operational scenario as a wingman. Many improvements have been implemented as a result of these field tests and exercises. With its design that allows the integration of useful payloads suitable for the mission, SHADOW RIDER concept has evolved into a family of autonomous unmanned ground vehicles that will serve in all kinds of missions, especially fire support.

FNSS' concept is presented as a viable and adaptable solution that provides autonomous capability to a conventional land platform with a kit that can be integrated into any armoured ground vehicle. SHADOW RIDER has marked its position as Türkiye’s first and one of the key heavy UGVs in the world with TRL-6-7. New variants have been developed in accordance with different operational purposes, concepts specific to each variant have been created and detailed designs according to each concept have been shaped. The vehicle can serve as an ambulance variant with stretcher inside for transporting the wounded in need, can be used as a logistics support vehicle by integration of the necessary mission equipment for load-transport missions. SHADOW RIDER concept can serve as a fire support vehicle with weapon system integration as well as a command vehicle, tactical deception vehicle and engineer reconnaissance vehicle. Joint operation studies of IKA-IKA and IKA-UAV were also carried out.

With its increased correspondence performance and limits, and matured detection algorithms, SHADOW RIDER has reached a much higher level of technological readiness in areas such as speed and direction stabilization, route tracking, autonomous patrol, convoy tracking, drivable area detection and obstacle avoidance. With its increased security measures and performance, and its user interface developed in line with experience, is waiting to meet with the visitors at IDEF 2023.

In the concept of SHADOW RIDER which will be exhibited at the FNSS stand, to show that more than one mission can be performed, a stretcher has been integrated for the casualty evacuation where it can also be easily adapted to carry supplies and materials within the scope of logistics support missions. In addition, to show that it can serve as a fire support vehicle and provide protection to the units, the SHADOW RIDER is equipped with the SANCAK RWS, different than the previous IDEFs.

PROTECTED MOBILITY AT YOUR SERVICE!

A GLOBALLY TRUSTED AND RESPECTED TURKISH DEFENCE COMPANY

FNSS is a globally recognized land systems company that specializes in designing and producing wheeled and tracked armoured combat vehicles as well as combat engineering vehicles, turrets and sustainability solutions. As the preferred solution provider of users in various countries, the Company has delivered thousands of armoured combat vehicles worldwide.

ADDING VALUE THROUGH INNOVATIVE SOLUTIONS

Thanks to its competent and dynamic workforce, FNSS offers innovative solutions throughout the entire product life cycle; from the design phase to the end of service life. Ever since the first roll-out in 1990, the Company has continuously improved its vehicle design and production capabilities in line with the requirements of its users. FNSS' KAPLAN class tracked armoured product family and PARS wheeled armoured vehicles are poised to shape new generation combat vehicle trends well into the 21st century.

MEETING USER EXPECTATIONS

FNSS designs and develops customized solutions to meet the requirements of each user. The key to FNSS' success in delivering tailored products within requested time frames lies in its flexible approach to project management. This is complemented by its ability to orchestrate an extensive supply chain and a wide range of global partnerships. FNSS has successfully engineered and supplied numerous products addressing unique requirements. These vehicles have been designed, manufactured and delivered to armies worldwide by FNSS' user-centric business models and tailored solutions.

BUILDING THE FUTURE WITH CONFIDENCE

FNSS products have been challenged by countless user endurance tests in the toughest conditions, and have proven themselves in combat missions. FNSS views user satisfaction as a permanent concept, and strives to ensure that its products serve beyond their life cycles by addressing any emerging needs throughout their use. FNSS also makes a difference by generating significant value for its international users through localization packages that include employing local labour, establishing domestic supply chains, and providing in-country training and technology transfer. Building upon it's over 30 years of heritage in the defence industry, FNSS continues to add value to its users by creating innovative solutions.

Seda Dağçınar
FNSS Savunma Sistemleri A.Ş.
Lead Media Relations and Communication Specialist
T +90 (312) 497 49 64
M +90 (533) 371 45 95
seda.dagcinar@fnss.com.tr