

Ready for Different Missions, SHADOW RIDER Modular Autonomous Unmanned Ground Vehicle

FNSS continues to develop Shadow Rider unmanned ground vehicle (UGV) concept, which was exhibited at IDEF 2019. The newest member of the Shadow Rider family will be showcased with 25mm unmanned remote turret and its autonomous capabilities at IDEF 2021.

Shadow Rider Combat UGV prototype is developed by FNSS engineering with the consideration of the current technologies in the field of robotics and autonomous systems to meet the complex and challenging operational requirements of the modern battlefield.

Shadow Rider family of vehicles are equipped with the autonomy kit developed by FNSS. Shadow Rider has patrol, follow the leader and return to base autonomous driving modes and also has various layers of protection for a secure driving capability FNSS autonomy kit is designed in open architecture to enable rapid adaptation of technology enhancement.

Shadow Rider Combat is equipped with a 25mm remotely controlled turret, a special turret design for unmanned vehicles. Show Rider Combat variant will not have autonomous firing capability, gunner will always be in the loop and fire decision will be given by the dismount.

Shadow Rider has a modular design to support the armies in a variety of mission profile, challenging environmental conditions and geography. Different mission kits can be easily integrated to the platform. Shadow Rider can be used in extensive mission profile including but not limited to direct fire support, reconnaissance, surveillance, communication relay tactical decoy and logistic support.

As a reliable and combat proven vehicle, M113 has been selected as a base platform for the Shadow Rider design concept. This approach allowed FNSS to focus more on autonomous technologies. Shadow Rider Family of Vehicles are equipped with a diesel engine and have range of >450 km. Shadow Rider can reach a speed of >50 km/h on asphalt road and can climb 60% gradient and 30% side slope, cross 60 cm vertical obstacles and has trench crossing capability of 160 cm long ditches. Shadow Rider Horseman has a payload capacity of 4500 kg.

Shadow Rider FoV also provides optionally manned driving capability.

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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 its over 30 years of heritage in the defence industry, FNSS continues to add value to its users by creating innovative solutions.

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