FNSS SHOWCASES PARS ALPHA 8x8 and MARINE ASSAULT VEHICLE (MAV) at SAHA EXPO 2024

FNSS will be attending SAHA EXPO International Defence and Aerospace Exhibition to be held at the Istanbul Expo Centre, between 22 – 26 October. FNSS is ready to welcome its visitors at Hall 6 in its stand: F04

FNSS will showcase TEBER II 30/40 RCT integrated PARS ALPHA 8x8 New Generation Armoured Fighting Vehicle and Marine Assault Vehicle which is in service with Turkish Naval Forces.

PARS ALPHA 8x8 New Generation Armoured Fighting Vehicle

Crafted with an acute focus on full-spectrum dominance, the PARS ALPHA 8x8 stands as a testament to FNSS's expertise in land systems and its foresight into the evolving landscape of military engagement. PARS ALPHA 8x8 incorporates state-of-the-art platform design and technologies to enhance exceptional mobility, survivability, durability, situational awareness and life support systems, in pioneering revolutionary solutions in new generation armoured warfare.

Through any weather condition, its innovative 8x8 all-wheel-drive, ride-height control and all-axle steering system offers advanced mobility. The hydro-pneumatic suspension with adjustable ride height enables persistent cross-country agility, enhanced by a turning radius optimized for confined urban warfare.

The vehicle also offers superior performance and reliability with its extended operational endurance, covering an impressive 5000 km of cross-country and on road drive, without any need for field maintenance. PARS ALPHA 8x8's reduced logistics burden, increased mean time between failures (MTBF) and enhanced mission readiness, elevates combat manoeuvres with a vehicle that goes beyond expectations.

This next-gen vehicle brings revolutionized protection systems offering unrivalled resistance to mines, IEDs, KE threats and artillery projectiles. Mine blast attenuation seats, and positioning the driver and commander above the second axle behind the power pack compartment reinforces crew safety against very high-level of threats from all around the vehicle. This design approach provides unique KE ballistic protection especially at the vehicles frontal arc. Its hydro-pneumatic suspension system with adjustable ride height control can increase mine protection by surpassing a ground clearance of 60cm on demand. A gunshot detection system, laser warning, soft-kill and hard-kill active protection systems can also be integrated based on user requirements.

Its adaptable structural design and vehicle silhouette enables best in class lower-profile while maintaining an extensive internal volume with open architecture. These features ensure the crew and dismounts remain fortified against external threats, underlining its role as a new generation asset for modern warfare.

The new generation PARS ALPHA 8x8 comprises the integration of advanced weaponry. TEBER-II 30/40 remote-controlled turret (RCT) is fitted with 30mm dual feed automatic cannon. The 30mm cannon can be replaced with a 40mm barrel, by only changing the recoil spring and forward feeder. This convertible weapon of choice enables the user to upgrade its firepower with minimum effort,

when and wherever required. A 7.62mm chain gun or MAG machine gun can be coaxially mounted aligned with the main gun.

TEBER-II 30/40 RCT is also adapt to use various modern anti-armour systems such as Semi-automatic command to line of sight (SACLOS) and Automatic command to line of sight (ACLOS) guided missile types. Two each ready to fire ATGM's are supported with an on board fire control system. This capability enables diversified threat engagements with an effective range beyond 4km's.

A high elevation and low depression 7.62 or 5.56mm independent overhead remote-controlled weapon system (ORCWS) is situated on top of the turret. Its high elevation is used against threats on high grounds on urban environment (building, roofs, etc.) as well as encountering drones approaching from top angles. ORCWS is also used as the commander's independent sight for hunter killer capabilities.

Both the turret and RCWS is designed to engage multiple targets simultaneously from all directions. TEBER-II 30/40 RCT offers target tracking and two-axis stabilisation that allows firing on the move. Besides TEBER-II 30/40 RCT, the vehicle can be fitted with various types of manned or remote-control turrets up to 120mm direct/indirect guns or weapon systems, 120mm mortars, air defence systems and anti-armour systems.

PARS ALPHA 8x8 New Generation Armoured Fighting Vehicle features a revolutionized structural design by situating the crew and dismounts behind the power pack compartment. With its compact powerpack design, commander and driver are able to sit side-by-side. This new layout approach enables 180°+ real time optical situational awareness for both occupants.

It also enhances crew safety during long distance drives without opening top hatches at hostile territories. Subsequently it also ensures eye contact and improved coordination between the vehicle crew and the dismounts. In addition to its unique optical field of view, the vehicle is equipped with displays and integrated 360-degree situational awareness cameras that provide both day and night vision for crew and dismounts.

Marine Assault Vehicle is Now In Service with the NAVY

Marine Assault Vehicle (MAV) is a vehicle designed specially to facilitate the rapid ship-to-shore movement of troops stationed on landing ships during the beach assault phase of an amphibious operations. MAV allows marine units to land under armour protection. It provides fire support to troops disembarking from the vehicle from the moment they land on the beach, enabling their inland objectives after ashore.

Delivered to Turkish Naval Forces, MAV becomes the fastest amphibious armoured vehicle that Turkish Armed Forces have in inventory. MAV have all the features and capabilities of both a military land vehicle and a military marine vessel, by balancing the land and sea requirements. This dual role by definition, vehicle offers high performance both on land and water operations.

A unique hull design and powerful water jets make the MAV highly mobile in the water with a speed of 7 knots, as well as on land, at 70 km/h maximum speed. It is capable of self-righting ability in case

of capsizing and/or operating at harsh sea/ocean conditions. Thanks to its long cruising range, it offers seaborne, land to sea and land-to-land capabilities.

MAV has higher ballistic and mine protection compared to its predecessors and is equipped with today's most advanced mission equipment.

MAV is fitted with CAKA Remote Controlled Turret with the ability to carry a maximum load of ready-to-fire rounds and ballistic protection. FNSS CAKA RWS features advantages with its; water resistance structure, light weight, better protection for the gunner, target acquisition, automatic target tracking, stabilisation, reliability, accuracy and increased usable volume inside the vehicle.

The base vehicle can be configured in different variants such as personnel carrier, battlefield support, beach recovery, combat engineering and command post configurations.

MAV outperforms its predecessors in terms of number of personnel and equipment to be transported in the vehicle, ballistic and mine protection levels, performance criteria to be met on land and in water and new generation remote controlled turret.

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.

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