

New at Eurosatory 2024

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Rheinmetall Panzerjaeger anti-tank mission system concept – a new effector of the Digital Brigade on the interconnected battlefield of the future

On the battlefield of the future, soldiers, sensors, platforms and effectors will be increasingly interfaced, while new technologies such as artificial intelligence, autonomy and robotics will steadily increase combat effectiveness. At the Eurosatory 2024, Rheinmetall is presenting its new Panzerjaeger (“tank hunter”) anti-tank mission system concept, which exemplifies the technological approach of the company’s Digital Brigade.

The Panzerjaeger is designed for long-range anti-tank defence capabilities and comprehensive situational awareness and fire superiority. It is based on the latest technology and is a fully integrated system with the ability to incorporate multiple sensors and effectors. Further parameters were price efficiency and a vehicle-independent approach.

At the Eurosatory 2024, Rheinmetall is presenting its Panzerjaeger mission system concept in a 4x4 vehicle. The 4x4 platform offers high manoeuvrability, a sufficient level of protection and, thanks to its ergonomics, a high level of endurance for the crew. Besides this concept an integration of the Panzerjaeger concept is also possible on 6x6, 8x8 and tracked platforms.

The reconnaissance equipment includes an EOS500 electro-optical sensor system mounted on a telescopic mast, which enables a direct visual view with a target detection range of over eleven kilometres. In addition, there are three fully integrated Rheinmetall “Recce S” UAVs with a reconnaissance range of eight kilometres. The charging station is also on board.

The main weapon system is the Spike LR2 anti-tank guided missile with a range of 5.5 kilometres. Two launchers with four ready-to-fire Spike LR2s are on board. A Remotely Controlled Weapon Station Natter with a 7.62mm x 51 machine gun completes the armament. This can be customised due to the open architecture. Hence, other guided missiles can also be used. It is also possible to use loitering ammunition from the Hero family.

The ROSY rapid obscurant system and the Acoustic Platform for Vehicles (APV) contribute to self-protection. The APV acoustically detects launch signatures in the event of enemy fire and calculates the position of the threat.



► Key facts

- Mission concept for long range anti-tank defence and superior situational awareness
- Vehicle-independent approach
- Sensors, equipment and armament customisable to the user
- Fully networked

► Contacts

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One possible deployment scenario for the Panzerjaeger anti-tank vehicle is to support attack operations. To do so, the Panzerjaeger mission system concept follows the attacking units in leaps or monitors their flanks. With its superior situational awareness and its ability to engage battle tanks at long range, it can be



used to destroy enemies from the rear, monitor its own units and provide fire support or repel enemy counter-attacks by securing the flanks. It can also monitor areas of particular interest.

As a leading system integrator, Rheinmetall has all the expertise to interconnect the various entities on the digitalised battlefield of the future. Rheinmetall's TacNet battle management system was developed specifically for the requirements of soldiers on the tactical level. It is optimised for highly mobile, tactical operations and offers user-friendly mission

preparation, interface planning and automated command and control processes. TacNet is fully compatible with the Tactical Core middleware from Rheinmetall's partner blackned and supports the seamless integration of soldier systems, unmanned systems and vehicles. This creates an interface information space in which tactical data is exchangeable between all connected weapon systems, thus drastically shortening the time for the sensor-to-shooter chain. The anti-tank vehicle is integrated into the system network via digital, software-defined radios in conjunction with the Tactical Core middleware. It can also use the new battle management and training applications of the Digital Brigade. These include apps to facilitate position selection or crew training on the original device.

We are looking forward to presenting the "Digital Brigade" and "Panzerjaeger" concepts to you at our Eurosatory stand E115/F115.