

► ELECTRONIC SOLUTIONS

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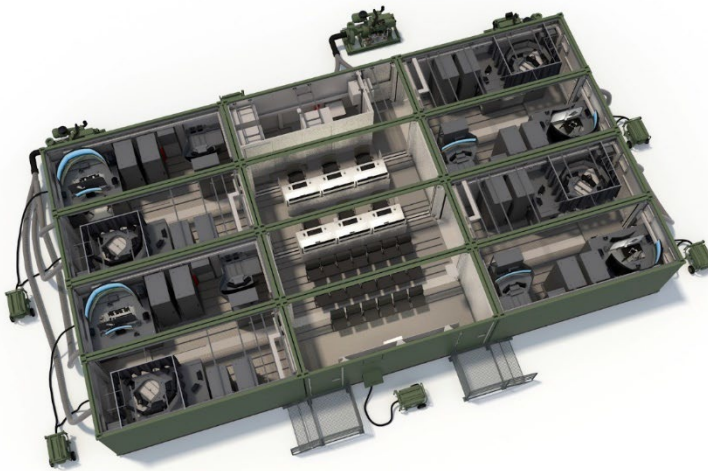
Bundeswehr approves new training system for Infantry Fighting Vehicle Puma

A highly modern simulation system for the Infantry Fighting Vehicle Puma has taken another major step within the German Bundeswehr. The Army Development Agency is adopting the new modular training system for the Infantry Fighting Vehicle Puma for simulating firings and combat training situations (German abbr. AGSP).

This was preceded by an order placed at the Düsseldorf-based technology group Rheinmetall to develop a completely new training system for mechanized infantry forces.

The AGSP is a highly realistic simulator that replicates the operational battlefield of a mechanized infantry grenadier platoon. It consists of a command, evaluation and control station (LAKS) as well as of four reproduced vehicle cabins with are close to the original.

The precise replication of essential elements such as vehicle logic, ballistics, haptics and aiming performance enables particularly realistic training – “train as you fight” is at the core concept.



Scalable training concept – from the individual operator to company level

The training with the AGSP begins in single mode focussing on the turret crew (gunner and commander). Subsequently, a full platoon can be trained in complex tactical scenarios. Once an interactive networking with other simulators has been verified, exercises at company level can also be conducted. In addition, a rifle unit can also be depicted either mounted or dismounted with the ES equipment for the modern infantry soldier as part of the mechanized infantry system.

► Keyfacts

- Simulations systems for Infantry Fighting Vehicle Puma takes major step
- Army Development Agency has approved new training system for the Infantry Fighting Vehicle Puma
- Flexible hardware-concept: Mobile, modular, easy to maintain

► Kontakt

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The system is fully relocatable and housed in twelve 20-foot containers. Its modular architecture allows for maximum flexibility: all central components, such as server racks and driver cabins, are mounted on rail systems and can be quickly replaced or upgraded as needed. Furthermore, maintenance and repair work has been vastly simplified, as main systems are now accessible from the outside. This eliminates the need for costly return transport to the factory, and significantly reduces downtime and logistics costs for the troops.

State-of-the-art software

The training software was developed by Rheinmetall and is customized precisely to the new system.

Among other things, the Rheinmetall firing and combat simulation platform offers a complete and detailed replica of the Puma's functionalities, including all visual and operational assets. It also includes the ES-modern infantry soldier system, the Battle



Management System and comprehensive evaluation and monitoring functions. In the operator's perception, the boundaries between the real Puma and the simulator are reduced to a minimum.

For the presentation of the scenarios, Rheinmetall relies on Bohemia Interactive Simulations' globally proven VBS4 simulation software. It offers users maximum flexibility in designing the database and creating combat scenarios.

The combination of the VBS4 software, which is widely used throughout the German Armed Forces, and Rheinmetall's customized solution, has resulted in the most powerful training system of its kind to date.

A key element of the project is the close cooperation between the armed forces, the procurement office, and the industry. User requirements and optimization suggestions could therefore be integrated and implemented at an early stage.

Bernd Packulat, Land Simulation Sales at Rheinmetall:

“There are many technical innovations in the AGSP, but the actual stand-alone aspect is the intensive collaboration with experts from the German Armed Forces. This has led to a system that precisely echoes the operational demands of the user – developed with and for the forces, not neglecting their requirements”.

By taking over the AGSP for the Infantry Vehicle Puma, another milestone in the field of digital training has been achieved. Rheinmetall is thus once again positioning itself as a reliable partner for state-of-the-art training solutions for the armed forces.