press release

RHEINMETALL DEFENCE

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Rheinmetall's AMPV Pegaz: a top-of-the-line, high-mobility, well-protected, universally deployable force multiplier

With the Armoured Multi Purpose Vehicle (AMPV) in its portfolio, Rheinmetall now offers a compact, highly mobile, superbly protected, extremely versatile vehicle that can be deployed virtually anywhere. At this year's MSPO, Rheinmetall MAN Military Vehicles (RMMV) is showcasing the Pegaz version of the AMPV. Configured to meet the specifications of the Polish armed forces, this variant is the perfect solution for special operations forces as well as conventional units.

The AMPV is the product of an industrial consortium. From the outset, purely military considerations dictated its design. In the process, the vehicle's developers drew on experience gained on the ground during ISAF operations in Afghanistan and in other missions around the globe. The AMPV is now the world's best-protected vehicle in its class. It has already undergone successful trials with a number of procurement authorities, and is now ready to go into full-scale production.

Various weapon stations can be integrated into the AMPV, with the spectrum ranging from manned rotating gun mounts to remotely controlled weapon stations. Main armament possibilities include 40mm automatic grenade launchers and .50 cal. BMG heavy machine guns. The special operations forces variant of the AMPV on show at MSPO is equipped with a remotely operated weapon station made by the Polish company Tarnow, and features a built-in heavy machine gun.

Weighing 7.8 tonnes when empty, the AMPV has a payload of over two tonnes. The vehicle's storage capacity has been customized to meet the needs of special operators, with plenty of space for extra equipment. Even so, the vehicle is extremely compact, measuring just 5,660 mm in length, 2,300 mm in width and 2,180 mm in height. As a result, the AMPV can be airlifted in medium-weight cargo aircraft like the C-160, the C-130 or the A400M. Heavy transport helicopters such as the CH-47 and CH-53 can carry it as underslung cargo.

Thanks to its high-performance 272 HP/200 kW diesel engine, the AMPV attains a maximum speed of up to 110 km/h. Automatic transmission, automatic differential lock management, a robust chassis with independent single-wheel and double wishbone suspension as well as an integrated tyre pressure control system all contribute to the vehicle's excellent mobility even in the toughest terrain. On paved roads, it has an operating range of 700 km. The AMPV can handle gradients with an

incline of up to 60% and transverse gradients of up to 40%. It has a fording capability of 850 mm, and can negotiate ditches measuring 750 mm across. Moreover, the AMPV can tow a trailer weighing up to 3,500 kg. The vehicle is fully operational at temperatures ranging from -46°C to + 55°C. Two 150-amp generators supply the vehicle with electric power.

The superbly protected, self-contained steel armour passenger compartment is roomy enough to carry five fully equipped troops. Furthermore, the passenger compartment can be retrofitted with additional add-on armour to contend with higher threat levels. State-of-the-art bullet-resistant windows combine excellent visibility with maximum protection. The vehicle's high-performance climate control system and NBC ventilation technology assure a high degree of battlefield sustainment. Taking into account the offensive driving techniques employed by special operators, it also features built-in ram protection.

If required, the vehicle's survivability and handling characteristics can be enhanced with additional assemblies. These include Rheinmetall's Acoustic Shooter Location System (ASLS) and Laser Warning System (LWS) for a 360°detection of threats. Moreover, the Group's Enhanced Driver Vision System (EDVS) which features day and night vision cameras (image fusion is possible) can be added either as an independent system or as part of the Situational Awareness System (SAS). EDVS improves the vehicle's mobility both day and night, rendering driving with night vision goggles obsolete. The AMPV Pegaz on display at MSPO 2016 features ASLS, LWS and EDVS.

Unlike conventional smoke/obscurant systems, Rheinmetall's innovative "Rosy" Rapid Obscurant System produces an instantaneous, extensive, multispectral interruption of the line of sight. Moreover, because it is dynamic, it provides sustained concealment for moving objects as well. The system's multi-mission capability assures 360° protection from multiple attacks, e.g. stream and wave assaults. Here, effective screening in the visual and infrared spectrums, including integrated IR jamming and decoying effects, provides reliable protection against all TV-, IR-, laser-, and SACLOS-guided weapons.

An advanced battlefield management system networks all of these systems, assuring an excellent command and control capability. The open architecture of the electrical and electronic vehicle systems means that weapons systems and equipment kit components can be easily integrated and new devices added on a plug-and-play basis.

The AMPV underscores once again Rheinmetall's status as a leading supplier of systems and equipment for security and mobility and reputation as a reliable partner of armed forces and security services around the globe.

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