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Rheinmetall at AUSA 2021 – Featuring Next-Generation Technologies that meet the U.S. Army’s Highest Priority Modernization Challenges. Now.

The AUSA Annual Meeting & Exposition takes place in Washington, DC from 11-13 October. This year’s motto is “America’s Army and its People, Transforming for the Future”. Rheinmetall will be on-site (booth #1803) showcasing some of its most recent activities, achievements and innovative solutions aimed at providing the U.S. Army with the critical, next-generation technologies it needs and deserves. Products and personnel from across Rheinmetall’s U.S. and global business, including U.S. parent American Rheinmetall Defense (Reston, VA), will be present to engage customers and partners.

Rheinmetall’s HX3 Tactical Truck

Rheinmetall’s new next-generation HX3 tactical truck stands out due to its improved crew protection, increased mobility, enhanced driving comfort and digital interface architecture. This results in greater operational flexibility, safety, survivability and operator enhancements as well as providing substantial capacity for future performance upgrades.

The HX3 builds upon the highly-prized core strengths and family concept of the Rheinmetall HX2 truck series predecessor. For example, the HX3 delivers an even more advanced mobile platform for carrying complex weapon and radar systems and has the capacity to integrate future developments such as, leader-follower, optionally manned and autonomous driving configuration. Technologies like Rheinmetall’s Automated Load Handling System are standard in the HX3 series of trucks. HX3 variants planned include 8x8 cargo, load handling system, tanker, tractor, wrecker, and system carrier. In a 10x10 configuration the HX3 can deliver even greater carrying capacities to include a platform to support a mobile howitzer. Like the HX2, the HX3 series of vehicles carries a high degree of commonality from 4x4 to 10x10 and commerciality to reduce development, lifecycle, and obsolescence costs.

The HX3 displayed on the Rheinmetall booth showcases the 10x10 mobile-howitzer system, equipped with a highly protected cab and a fully automatic, remote-controlled artillery turret, featuring an L60 cannon currently under development by Rheinmetall.



► Key facts

- ▷ Rheinmetall is showcasing numerous projects and activities at AUSA 2021 on 11-13 October in Washington D.C., USA
- ▷ Highlights include the HX3 tactical truck, Lynx OMFV digital design concept, StrikeShield active defence system, Mission Master SP unmanned ground vehicle, and many more products and solutions to enhance the warfighter’s capabilities

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The U.S. Army is currently exploring a critical truck modernization program, the Common Tactical Truck (CTT), for which the HX3 series is a natural fit and ready now.

Rheinmetall's Lynx OMFV Digital Design Concept

In July of this year, Rheinmetall's U.S. subsidiary, American Rheinmetall Vehicles (ARV) (Sterling Heights, MI), and its "Team Lynx" partners – Raytheon Technologies, L3 Harris Technologies, Textron Systems and Allison Transmission – received a contract award based on their concept solution for the digital design phase of the U.S. Army's Optionally Manned Fighting Vehicle Program. At this year's AUSA annual meeting visitors will get a firsthand view of some of the new design concepts shown on a large-scale model. Visitors



will also be able to dive into elements of the design through an interactive digital experience. The Lynx OMFV concept uses as its departure point the next-generation Lynx KF41, in production with a NATO partner and undergoing extensive field testing in Australia as part of the Australian Land 400 Phase 3 program. Team Lynx is offering to the U.S. Army a fully U.S.-specific and next-generation lethal, survivable, and advanced platform from this highly mature baseline. The solution also provides exceptional capacity for growth, recognizing the rapid development and proliferation of new advanced technologies. ARV will have a full team of supply chain staff on site to answer questions, outline current supply chain needs, and discuss opportunities as Team Lynx continues to prepare for full U.S. production of its OMFV solution.

StrikeShield Active Protection System: Modular Protection with Lower Risk of Detection

During AUSA, Rheinmetall will demonstrate its expertise in vehicle survivability with an exhibit of StrikeShield, a next-generation Hardkill Active Protection System that integrates APS components within a modular armor package. StrikeShield's hybrid design provides optimal performance while minimizing system weight and power consumption. In addition, StrikeShield offers superior protection when engaged by multiple or simultaneous threats, even from very close range. The system emits a very low electronic signature that significantly reduces the risk of detection by adversaries, and its defeat of threats in close proximity to the platform make StrikeShield much safer for dismounts.

Visitors to Rheinmetall's booth will also learn about the company's Rapid Obscuring System (ROSY), a 40mm non-lethal grenade launcher that is currently fielded on both vehicle and naval platforms. ROSY produces an instantaneous smokescreen for effective obscuration across the visual and IR spectrum, and the system's lightweight modular design is suitable for virtually all ground vehicles.

Airburst Lethality: Fight. Survive. Win.

On display at AUSA, visitors will see the improved MK93 heavy weapons mount – designed and produced by American Rheinmetall Systems – that not only reduces recoil and improves accuracy, but also enables the integration of Rheinmetall's airburst munition and lethality capabilities. For example, Rheinmetall is making critical contributions to the Army's 40mm XM1176 and XM1166 airburst munitions, to produce lethal effects against personnel in open and defilade positions and defeat unarmored/lightly armored vehicles. As part of the 40mm airburst munition programs, Rheinmetall is leveraging its extensive systems expertise, providing high performance programmers that increase first round hit probability. American Rheinmetall Munitions (Stafford, VA and Camden, AR) coordinates Rheinmetall's work to ensure these systems deliver optimal interoperability and game-changing combat performance for the U.S. Army.

Rheinmetall Mission Master

On display at this year's AUSA exhibition will be the Rheinmetall Mission Master SP Autonomous Unmanned Ground Vehicle (A-UGV) platform in the cargo variant. The Mission Master SP is a world leading A-UGV showcasing Rheinmetall's advanced developments in autonomous combat vehicle operating capabilities. The Mission Master SP features all-terrain and amphibious mobility, as well as silent drive mode. It can operate autonomously or semi-autonomously. In addition to a flexible storage system, the Mission Master SP – Cargo can be fitted to suit both high and low profile operations. Its robust design can shoulder over a half-ton payload of supplies, equipment, and materials.

In June 2021, Rheinmetall unveiled a new addition to its family of autonomous unmanned ground vehicles. Able to tackle extreme terrain, the Mission Master XT is a robust platform that carries a 2204 lb. payload and thrives in the most challenging conditions. Its advanced amphibious capabilities allow it to float and swim while maintaining its full payload capacity. Another remarkable feature of the Rheinmetall Mission Master XT is its continuous tire inflation system, which adjusts the tire pressure as needed based on the terrain. Like its predecessors, the XT comes integrated with the Rheinmetall PATH autonomy kit, an industry-leading, AI-powered autonomous driving and navigation package. The PATH autonomy kit can also be integrated on any drive-by-wire platform, so they can operate unmanned in all kinds of weather conditions. While the Mission Master XT will not be onsite this year, Rheinmetall team members will be available for discussions on both the Mission Master SP as well as the XT models.



Electronic Mission Systems: Be Aware. Be Accurate. Be in Control.

Rheinmetall's U.S. electronics division, American Rheinmetall Systems (Biddeford, ME), is poised to unveil its broadened product portfolio at this year's AUSA exhibition. In addition to soldier lethality systems such as laser aiming, pointing and illuminating devices and fire control systems, the company now offers world-class vehicle electronic mission systems to the U.S. market. On display at AUSA will be Rheinmetall's Intelligent 360° Situational Awareness System that enables crews of protected vehicles to surveil their local environment and detect, track and engage potential threats faster.

Rheinmetall welcomes visitors to AUSA booth # 1803 to experience the Group's offerings fitted for the Army's future fighting force.