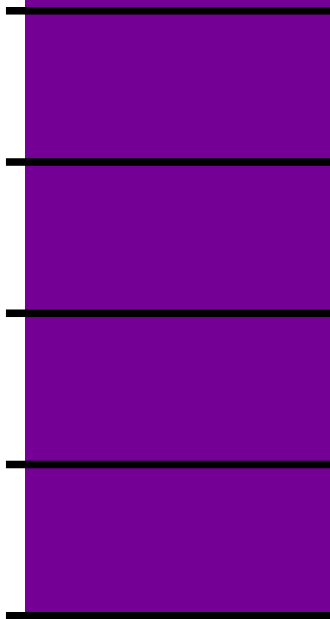


Army Guide monthly



10 (169) October 2018

- AM General Awarded 5-Year Requirements Contract For Up To 2,800 M997A3 HMMWV Ambulances
- U.S. Army Awards AM General \$51.3 Million Contract For High Mobility Multipurpose Wheeled Vehicles
- Raytheon, Rheinmetall join forces for US Army's Next-Gen Combat Vehicle competition
- Triple-digit million euro contract for Rheinmetall
- Kongsberg and Milrem Robotics Showcase a Robotic Antitank and HMG System at AUSA
- Oshkosh FMTV A2 Makes Debut at AUSA 2018, Multiple JLTVS Command the Floor
- Serbia intends to buy a batch of Chechen Chaborz military all-terrain vehicles



Contracts

AM General Awarded 5-Year Requirements Contract For Up To 2,800 M997A3 HMMWV Ambulances

The U.S. Army Contracting Command today awarded global vehicle solutions provider, AM General, a requirements contract to manufacture an estimated quantity of up to 2,800 new M997A3 High Mobility Multipurpose Wheeled Vehicle (HMMWV) Ambulances. The total value of the contract, if all options are exercised, is approximately \$800 million.

“AM General continues to support the warfighter’s needs by delivering high-quality M997A3 ambulances based off our modernized, proven, rugged, all-terrain HMMWV’s,” said Chris Vanslager, AM General Executive Vice President, US Defense. “We understand the importance of being able to reliably and safely transport the wounded within operational areas on the battlefield to medical aid stations and are proud that the M997A3 can fulfill this critical mission.”

As the prime contractor, and in partnership with Rock Island Arsenal, AM General will deliver quality and consistency in the M997A3 HMMWV ambulance manufacturing process by applying its Quality Management System across the entire enterprise which includes production parts suppliers, chassis and shelter production, and integrated vehicle testing. The Company will procure all system materials and parts, manufacture the chassis and body structure before shipping the integrated chassis system to Rock Island Arsenal where the ambulance shelter will be manufactured and assembled into the final product.

As with all active vehicle programs, AMG General leverages its more than 100 years of automotive experience to deliver affordable quality products on time. The first M997A3 ambulance deliveries are scheduled for Q2 2019.

Contracts

U.S. Army Awards AM General \$51.3 Million Contract For High Mobility Multipurpose Wheeled Vehicles



SOUTH BEND, Ind., September 26, 2018 – Global vehicle solutions provider, AM General, has been awarded a \$51.3 million contract to recapitalize High Mobility Multipurpose Wheeled Vehicles (HMMWV) for the U.S. Army. The company will utilize its longstanding and proven Public Private Partnership (PPP) program with the Red River Army Depot (RRAD) to deliver mission-capable, like-new M1152 and M1165 HMMWV variants.

“We recognize the value of a modernized vehicle fleet

for the U.S. Army and this contract award is a testament to our commitment for continued innovation and vehicle system improvements to ensure mission readiness for our service men and women,” said Chris Vanslager, AM General Executive Vice President – U.S. Defense. “The HMMWV platform is incredibly nimble and adaptable; over the life of the program, it has received a multitude of improvements.”

The current program will recapitalize existing U.S. National Guard assets. Selected vehicles will be disassembled at RRAD, go through a rigorous initial inspection, and modified in accordance with the recapitalization requirements. The recapitalized vehicle bodies will then ship to AM General’s Mishawaka Manufacturing Campus, where they will be mated to a new production rolling chassis. The resulting product is a modernized HMMWV with automotive improvements including substantial increase in overall vehicle reliability, improved steering geometry for maneuverability, and increased-capacity 4L85E transmission, improved front mounted HVAC system, addition of Antilock Braking System and Electronic Stability Control, and an improved powertrain cooling system.

Defence Industry

Raytheon, Rheinmetall join forces for US Army’s Next-Gen Combat Vehicle competition



Raytheon Company and Rheinmetall Defence have joined forces to meet the U.S. Army’s requirement for the Next-Generation Combat Vehicle-Optionally Manned Fighting Vehicle program. The global industry team will offer the new Lynx Infantry Fighting Vehicle paired with Raytheon weapons, sensors and system integration expertise to provide the Army with an advanced, modular, survivable and lethal solution with unmatched growth potential.

Scheduled for fielding in 2026, the Next-Generation Combat Vehicle will be optimized for urban combat and rural terrain. The Army has named the NGCV as a top modernization priority supported under the service’s new Futures Command structure.

“We fully understand the Army’s need to quickly modernize its aging family of combat vehicles. Our team offers a fresh, innovative approach, not business as usual,” said Dr. Taylor W. Lawrence, Raytheon Missile Systems president. “Raytheon will equip the new Lynx

with the world's most advanced technology to deliver a modern fighting vehicle that will keep U.S. soldiers far ahead of battlefield threats for decades to come."

Raytheon technology earmarked for the Lynx could include advanced variants of Raytheon weapons, next-generation thermal sights, the Coyote® unmanned aircraft system and the company's Active Protection System. Like those systems, the vehicle will be made in America.

Rheinmetall unveiled the latest version of the Lynx Infantry Fighting Vehicle earlier this year. The new, tracked, armored vehicle is designed to address the critical challenges of the future battlefield, with a focus on growth capacity and lower life-cycle costs.

The Lynx IFV will provide the Army a next-generation lethal, powerful, lifesaving and adaptable fighting vehicle that represents true leap ahead capability compared to legacy vehicles. The Lynx can also be adapted to enable optional manning features, such as remote operation of the vehicle and Lance turret.

"Rheinmetall and Raytheon have worked together successfully for many years on numerous programs," said Ben Hudson, global head of Rheinmetall's Vehicle Systems division. "We are once again combining the best of German and American engineering to provide the U.S. Army with a step change in capability, giving soldiers the overmatch advantage they expect and deserve. Production of the Lynx in the U.S. will enable additional development and sustainment of the world-class American defense industrial base."

The NGCV is expected to replace the Bradley fighting vehicle.



Defence Industry

Triple-digit million euro contract for Rheinmetall



An international customer has ordered components for manufacturing the Fuchs/Fox 2 wheeled armored vehicle. The order is worth a figure in the three-digit million euro range. Delivery of the components will take place during the 2019-2020 timeframe. This contract has special significance for Rheinmetall's Kassel plant, birthplace of the battle-tested 6x6 vehicle.

To date, some 1,400 Fuchs/Fox vehicles have been built. The armed forces of numerous nations have multiple variants of the vehicle in their inventories, including an armored personnel carrier, a mobile tactical operations centre, a field ambulance, and an NBC reconnaissance vehicle. The German Bundeswehr has fielded multiple versions ever since 1979, having

deployed over 100 Fuchs/Fox 1 vehicles in Afghanistan and elsewhere. Deriving from it, the Fuchs/Fox 2 is an advanced version of the system, featuring (among other things) a larger fighting compartment, a more powerful engine, updated running gear, improved survivability and digital vehicle electronics.

The Bundeswehr is also modernizing part of its Fuchs/Fox 1 fleet. The most advanced version, the Fuchs/Fox 1A8, delivers considerably better protection against landmines and IEDs than its predecessors, coupled with enhanced ballistic protection. Among the principal modifications of the Fuchs/Fox 1A8 are structural changes to the hull, new seating and seat suspension slings in the fighting compartment in order to keep the troops' feet off the floor, plus reinforced wheel housings, doors and window frames as well as additional storage compartments and a reinforced exterior. In all, Rheinmetall will bring 272 Bundeswehr Fuchs/Fox vehicles up to current 1A8 standard by the end of 2020.

Furthermore, Rheinmetall offers an even more advanced version of the vehicle, the "1A8 Plus", which has a new drive unit, a new transfer case, a new brake system, an improved steering system as well as monitoring and camera visualization systems. This makes the Fuchs/Fox 1A8 Plus even more manoeuvrable in off-road terrain and considerably easier to handle. These measures will make it possible to keep using the Fuchs/Fox even beyond the year 2030.



Robots

Kongsberg and Milrem Robotics Showcase a Robotic Antitank and HMG System at AUSA



The Titan unmanned ground vehicle by robotic warfare systems developer Milrem Robotics with the PROTECTOR remote weapon station by Kongsberg Defence and Aerospace is exhibited at this year's AUSA trade show in Washington DC.

The system on display is equipped with a 50.cal and a Javelin missile launcher providing excellent combination of heavy machinegun and antitank capabilities to warfighters. Just a month before this week's exhibition the system was showcased in a live fire demonstration conducted near Kongsberg's headquarters in Norway. Further testing and demonstrations, including Javelin firing are planned for the near-future.

"Milrem's tracked UGV has proven itself to be an ideal platform for various weapon systems integration," said Kuldar Vaarsi, CEO of Milrem Robotics. The UGV

has previously passed live fire tests with FN Herstal's deFNder Medium RWS, ST Kinetics ADDER and Aselsan's SARP. An anti-tank system with MBDA's IMPACT (Integrated MMP Precision Attack Combat Turret) system is also in development, thus the Titan/THeMIS is the most sought after platform by weapon systems developers.

"Equipping unmanned and robotic platforms with weapon systems enhances the safety of warfighters and keeps them from harm's way. These systems will always have a human operator controlling the weapon thus eliminating the concern about 'killer robots'," added Vaarsi.

With approximately 15,000 systems already in service across the U.S. DoD, Kongsberg's CROWS weapon station-family is uniquely positioned to support UGV weaponization, either as an applique solution or in a ground-up design.

Eskild Aas, Director Digital Vehicle Solutions at Kongsberg stated: "Many of the control capabilities already being delivered to the U.S. (for CROWS) support a relatively straight forward and low-risk UGV integration for our weapon stations." He went on to say: "We are obviously quite excited to continue our work with Milrem Robotics and believe further demonstrations of this system will help the user-community understand what is possible for a robotic platform."

Defence Industry

Oshkosh FMTV A2 Makes Debut at AUSA 2018, Multiple JLTVs Command the Floor



Oshkosh Defense, LLC, an Oshkosh Corporation (NYSE: OSK) company, will debut the Family of Medium Tactical Vehicles (FMTV) A2 variant, as well as showcase multiple Joint Light Tactical Vehicles (JLTV) at the 2018 AUSA Conference. The vehicles will be on display at the Walter E. Washington Convention Center in Washington, D.C. from Monday, October 8th through Wednesday, October 10th, 2018.

The Oshkosh FMTV A2 will be on display for the first time at AUSA 2018. Oshkosh was awarded the FMTV A2 contract in February 2018, following the Army's competitive request for proposal (RFP) for an upgraded platform with improved payload, underbody protection, ride quality, mobility, engine power, electronics, diagnostics, and safety enhancements.

"Oshkosh Defense is proud to debut the FMTV A2 at AUSA 2018. We took a great truck and made it even

better with greater force protection, improved payload, a smoother ride, and better mobility," said John Bryant, President of Oshkosh Defense and Executive Vice President of Oshkosh Corporation. "We are honored that the U.S. Army selected Oshkosh as the winner of the FMTV A2 production contract earlier this year."

The FMTV A2 fleet of vehicles will be comprised of 16 models, allowing it to perform a wide range of duties from supporting combat missions, to relief efforts, to logistics and supply operations.

In addition to the FMTV A2, three fully integrated JLTVs will also be found on the AUSA show floor. The JLTV on display in the Oshkosh Defense booth will be outfitted with the Kongsberg Common Remotely Operated Weapon Station (CROWS) with the Javelin Integration Kit (JIK) and .50 Caliber Machine Gun.

A second JLTV will be integrated with the Kongsberg PROTECTOR II Remote Weapon System (RWS) with a XM914 Lightweight 30mm Cannon, the JIK, and a 7.62 coax machine gun and will be on display in the Kongsberg booth #239. The third JLTV on display will be in the IMI Systems booth #3125 featuring the Iron Fist Active Protection System (APS).

"Oshkosh has an exciting few months coming up with the JLTV program," Bryant continued. "First, we expect a Full Rate Production (FRP) decision in early FY19. At that time, we will substantially ramp up our JLTV production. Following the FRP decision, the U.S. Army and the U.S. Marine Corps will begin fielding JLTVs. We look forward to getting these vehicles into the hands of our service members."

Defence Industry

Serbia intends to buy a batch of Chechen Chaborz military all-terrain vehicles



Serbia intends to purchase a batch of three-seat Chaborz M-3 military all-terrain vehicles, developed at the Russian University of Special Forces in Gudermes (Chechen Republic, Russia). This was reported by the assistant of the head of Chechnya and curator of the Russian special forces university, Daniel Martynov.

"We have already delivered one vehicle to Serbia, we have an agreement with them, just a few days ago they had a big show, and the Serbian Minister of Defense really liked our vehicle. They are now forming their technical requirements, something needs to be changed for their purpose. And then we will continue to supply [all-terrain vehicles] to Serbia," said Martynov.

He noted that China and Kazakhstan are also interested in buying Chechen buggies. “A fully equipped M-3 combat vehicle (three-seater) costs about 1.7 million rubles, it all depends on the technical specifications. It is several times cheaper than foreign counterparts,” the sources said.

Light multipurpose all-terrain vehicles capable of carrying a crew of three people and a load of up to 250 kilograms in difficult areas and off-road, in the steppe, desert and in the mountains. Vehicles are designed by Russian specialists, 95% made from Russian components and have been tested in the most difficult conditions. The volume of serial production is 30 vehicles per month.

The Russian Special Forces University is being built at the expense of private investments in more than 450 hectares in the city of Gudermes and is a multifunctional complex of 95 buildings and structures equipped with the latest special information and technical solutions. The university will cover such areas as fire, special tactics, airborne, mountain training, as well as the training of bodyguards and military journalists. Practically all these areas of the center will be accessible to tourists and residents of Chechnya. It is planned that the object will work in full capacity before the end of 2019.

