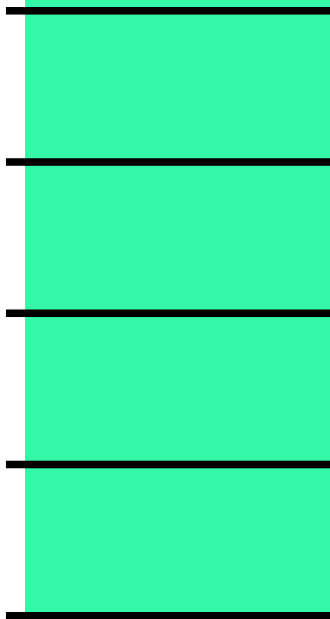


# Army Guide monthly



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## Contracts

### Rockwell Collins to upgrade Hawkei Protected Mobility Vehicle-Light system



Rockwell Collins will serve as a subcontractor to Thales Australia to integrate the Digital Terminal Control System (DTCS) into the Integral Computing System (ICS) of the Hawkei Protected Mobility Vehicle-Light system.

The DTCS enables joint terminal attack controllers and joint fires observers to seamlessly integrate with airborne assets, artillery and naval platforms. It is a flexible, wearable solution for ground targeting, air support and call-for-fire missions with the capability to be integrated on tanks and combat vehicles. Vehicle integrations enable the soldier to leverage more capable sensors and communication systems that are organic to the vehicle.

“The collaborative relationship that our company has with the Australian Defence Force has provided a foundation for the delivery of reliable joint fires solutions under the Land 17 program,” said Nick Gibbs, managing director of Rockwell Collins in Australia.

Following the acceptance of a first-of-type system, Rockwell Collins will design, support Thales Australia to develop, integrate and test the DTCS. Work under the contract will be located in Sydney, Australia, and began in January 2017 and will run through February 2018.

## Defence Industry

### Navistar Defense Awarded \$475 Million To Support Allied Forces MRAP Requirements

LISLE, Ill. -- The U.S. Army Contracting Command recently awarded Navistar Defense, LLC, two foreign military contracts valued at more than \$475 million. The first is to produce and support 40 MaxxPro® Dash DXM™ Mine Resistant Ambush Protected (MRAP) vehicles for Pakistan. The second is to reset, upgrade and support 1,085 long wheel base MaxxPro® MRAP Excess Defense Article vehicles for the United Arab Emirates.

"MaxxPro® vehicles are recognized as the most survivable wheeled vehicles in the U.S. military's fleet," said Kevin Thomas, president and general manager, Navistar Defense. "We are pleased that these important U.S. allies are confident in the MaxxPro's® ability to protect their forces allowing them to complete their missions and return home safely."

The majority of the work will take place at the

company's West Point, Mississippi assembly plant. Delivery is planned to be completed for Pakistan in calendar year 2017 and for U.A.E. in calendar year 2018. Navistar is currently resetting U.S. Army MaxxPro® vehicles that have been retained in the Army's enduring fleet at its West Point facility. West Point is also busy producing new Medium Tactical Vehicles for the Afghanistan National Security Forces and other allies based on a contract awarded in August 2015.

## Defence Industry

### Supacat teams with Rheinmetall to offer Dutch-built vehicles for Defence-wide Wheeled Vehicle Replacement Programme



Supacat and Rheinmetall MAN Military Vehicles Netherlands (RMMV NL) have teamed to offer Dutch-built Supacat Protected Vehicles for the 12kN air assault vehicle (AASLT) and a 12kN light-weight protected vehicle requirements as part of the Defence-wide Wheeled Vehicle Replacement Programme (DVOW) with the Dutch Army.

Under the teaming agreement and upon contract award, the Supacat-designed vehicles will be built by RMMV NL and the production line will be supported by their existing supply chain in the Netherlands. The proposed solution includes substantial local industrial content for a fleet of more than 500x 12kN AASLT and 900x 12kN light-weight protected vehicles.

“The teaming agreement is based on a strong collaborative platform and the allocation of responsibilities will be based on ‘Best for Customer’ criteria,” said Phil Applegarth, Head of Supacat. “Both companies have demonstrated their agility in forming a solution that delivers an outstanding in-country product, which supports Dutch jobs for a Dutch requirement.”

“Cooperation between Supacat and RMMV meets the requirements of this programme for the Dutch Army,” stated Coen van Leeuwen, Managing Director of RMMV NL, adding that, “a proven concept built in the Netherlands and supported by people who know how the Dutch Army operates is bound to succeed.”

Supacat, a high-mobility vehicle specialist, stands on an established and successful track record of developing high-quality vehicles for the global defence market. RMMV NL is currently in the process of producing Boxer 8Γ—8 wheeled armoured vehicles for the Dutch Army at the local facility in Ede.

Building on a strong relationship, Supacat and

Rheinmetall continue to work together on a number of programmes, including the UK's Challenger 2 Life Extension Programme and Australia's Land 400 Phase 2 programme.

company is an important part of our company business strategy," said Marek E pok, director of state enterprise at VOP CZ.

### Defence Industry

#### BAE Systems contracts Czech firm VOP CZ for military vehicle components



The contract further builds on an existing teaming agreement between the two companies aimed at providing the Czech Republic with its next generation Infantry Fighting Vehicle (IFV).

BAE Systems and VOP CZ signed an agreement in 2016 to combine efforts to replace the Czech Republic's fleet of BMP-2 IFVs, and intend to offer the CV90 IFV. The CV90 is an advanced, adaptable, combat proven vehicle with more than 1,200 operating with seven nations, including several NATO allies.

BAE Systems is committed to a strong partnership with Czech industry to offer the best capabilities possible to meet the security needs of the country, and it has a solid track record of working with industries native to its customers to support local economies. Under this new contract signed in February, VOP CZ will produce parts for the 32 BvS10s that BAE Systems Högglunds, based in Örnsköldsvik, Sweden, is currently building for the Austrian government under a previous contract awarded in June 2016.

"This contract is a milestone in our cooperation with Czech industry and the first step toward a comprehensive and lasting relationship with VOP CZ," said Peter Nygren, vice president of business development at BAE Systems. "This order is an excellent opportunity to establish working processes and relationships between the two companies well in advance of the far more extensive cooperation required for the BMP-2 replacement program. Should the Czech Republic select the CV90, our arrangement will be well positioned to successfully carry out the program while also benefiting the Czech Republic's defense industry and economy."

The industrial solution with VOP CZ for the BMP-2 replacement program will support job creation and technology transfer in the country. This initial contract demonstrates BAE Systems' comprehensive approach to industrial cooperation. The agreement with VOP CZ and its engineering and integration expertise creates a strong team for supporting the Czech Armed Forces for many years to come.

"Developing cooperation with a major foreign defense

### Defence Industry

#### Jenoptik receives follow-up contracts for retrofitting Leopard 2 tanks



The Jenoptik Defense & Civil Systems segment is to supply 17-kilowatt auxiliary power units and electric turret and weapon stabilization for the Leopard 2 tank.

Jenoptik was awarded the contracts at the beginning of 2017 as a part of a Polish modernization program for the Leopard 2 tank. The Group will supply 126 of the 17-kilowatt auxiliary power units to the Polish company ZM Bumar Labedy S. A. The company Rheinmetall Defence will receive another seven of these units as well as ten electric turret and weapon stabilization systems.

The contracts worth 10.6 million euros will be processed in cooperation with Polish subcontractors. Delivery is scheduled for the years 2017 to 2020.

The electric turret and weapon stabilization systems replace the hydraulic systems used to date. They are for the most part maintenance-free and generate less heat inside the tank. Basically these systems steadily align the turret and weapon while the tank is in motion. The compact auxiliary power units reliably generate electrical energy for the on-board system in the smallest possible space while the engine is switched off.

#### About Jenoptik and its Defense & Civil Systems segment

As an integrated photonics company, Jenoptik is active in the three segments Optics & Life Science, Mobility and Defense & Civil Systems.

The Defense & Civil Systems segment develops, produces and distributes mechatronic and sensor systems for civil and military applications. The portfolio ranges from individual assemblies, which customers integrate into their systems, through to complete systems and end products. The segment's areas of competence are energy systems, optical sensor systems, stabilization systems, aviation systems as well as radomes & composites. Top-quality customer service ensures that the Jenoptik products and customer systems are supported over their useful lives, which generally extend over many years. The mechatronic products include diesel-electric gensets, electrical machines such as alternators, electric motors or



converters, power electronics, heating systems and control units as well as lift systems and rescue hoists. They are used in drive, stabilization and energy systems for military and civil vehicles, rail and aircraft equipment. The sensor systems include infrared camera systems and laser rangefinders which are primarily used in automation technology, as well as security technology and military reconnaissance.

## Defence Industry

### KORKUT Serial Production Begins



Following the successful completion of the design and pre-production phase of the Self-Propelled Low Altitude Air Defence Gun System (KORKUT) project conducted by the Undersecretariat for Defence Industries (SSM) together with ASELSAN as the prime contractor and FNSS as the subcontractor, to meet the need of Turkish Land Forces, serial production phase has commenced.

Work on the Serial Production Phase of the KORKUT Project started after the serial production agreement was signed between SSM and ASELSAN, and subsequently a sub-contract agreement was signed between ASELSAN and FNSS on December 2, 2016 for the delivery of the tracked platforms.

The KORKUT System is comprised of a Command and Control Vehicle and Weapon System Vehicle to complete air defence operations. The Command and Control Vehicle detects and tracks targets with its 3D search radar and while developing a local air picture, evaluates threats and assigns targets to the Weapon System Vehicles. Meanwhile, the Weapon System Vehicles trace the target with fire control radar and generates firepower with two 35 mm guns using fragmentation ammunition.

Both the Weapon System Vehicles and the Command and Control Vehicles were built on the ACV-30 chassis, the tracked carrying platform specially developed by FNSS to carry the command and control, large scale mobile radar, gunfire support, self-propelled artillery and missile systems. The ACV-30 is also used in the Low Altitude Air Defence Missile System (HİD°SAR-A) project. The most remarkable feature of the ACV-30 is its amphibious capability while maintaining high payload capacity, superior mobility performance and a large internal volume. This amphibious feature distinguishes KORKUT from all other existing medium calibre self-propelled air defence systems in the market today. The KORKUT system is able to carry out various missions

with heavy armoured platforms such as the main battle tank and armoured combat vehicles, including the ability to fire on the move, and manoeuvre natural obstacles such as river crossings, offering a significant tactical advantage.

In the context of the development phase of the KORKUT Project, the contract for the development of tracked carrying platform was signed between ASELSAN and FNSS on June 25, 2011. One Command and Control Vehicle and two Weapon System Vehicles developed and tests were successfully completed, with final acceptance occurring October 31, 2016.

Production line qualification and serial production activities will be carried out in accordance with the Serial Production Phase of the KORKUT Project that started on May 19, 2016 with the signing of the related agreement between SSM and ASELSAN. The systems will be delivered in groups consisting of one Command and Control Vehicle and three Weapon System Vehicles. The first group of ACV-30 vehicles to be manufactured by FNSS are planned to be delivered to ASELSAN in May 2018.

Following the Pedestal Mounted Stinger system, the KORKUT Project will be the second air defence system indigenously developed by the Turkish defence industry to be delivered to the Turkish Armed Forces. The fact that both air defence systems and the vehicle to carry these systems were developed by the Turkish defence industry attracts attention, as it shows progress by industry since the Pedestal Mounted Stinger system.

## Contracts

### Singapore MoD Signs Contract for Next Generation Armoured Fighting Vehicle



The Singapore Ministry of Defence has awarded a contract to Singapore Technologies Engineering Ltd (ST Engineering) for the production and supply of the Next Generation Armoured Fighting Vehicle (AFV).

The Next Generation AFV will replace the ageing ULTRA M113 AFV which has been in service since the early 70s. The Next Generation AFV will provide our armoured forces with enhanced firepower, protection, mobility and situational awareness.

The delivery of the Next Generation AFV will begin in 2019.

The Next Generation Armoured Fighting Vehicle (AFV) will be the mainstay of the Singapore Armed Forces' (SAF) mechanised forces, operating alongside

the Bionix Infantry Fighting Vehicle, to fulfil the SAF's operational requirements.

Developed together with the Defence Science and Technology Agency and our local defence industry, the Next Generation AFV will provide our armoured forces with enhanced firepower, protection, mobility and situational awareness.

Initiated in 2006 to replace the ageing ULTRA M113 AFV which has been in service since the early 70s.

