

# Army Guide monthly



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## Future Technologies

### Test Firing Concludes MBDA Extended Range GMLRS Technology Demonstrator Programme



On 21st July 2005, a team from MBDA and Lockheed Martin successfully conducted a test flight of a GMLRS ER (Guided Multiple Launch Rocket System Extended Range) rocket at the White Sands Missile Range in New Mexico, USA.

This one-off test flight concludes the GMLRS ER Technology Demonstrator Programme (TDP) for which MBDA is prime contractor under a contract awarded by the UK MoD's Research Acquisition Organisation in April 2004. Lockheed Martin's [NYSE: LMT] Missiles and Fire Control business unit is the main subcontractor as well as the overall Design Authority under the TDP. The TDP called for a flight demonstration showing a range extension to 100 km of the GMLRS M30 rocket that has been developed by Lockheed Martin for the five nations involved in the GMLRS programme. This range extension ties in with the UK MoD's IFPA (Indirect Fire Precision Attack) requirements.

For the test firing an unarmed, modified GMLRS M30 rocket was fired at set coordinates from a standard GMLRS launcher. The test, which took place with representatives of the partner nations present, proved the primary objective, namely the achievement of the desired 100 km range, as well as the correct operation of the rocket during its longer flight at high speed and at a higher altitude than the standard M30. MBDA's role during the development of the M30 rocket included System Studies, Guidance and Control, Autopilot Design, Trial Requirement Definition, Support Modelling and leveraged expertise gained when 11 members of the company were seconded to Lockheed Martin as part of the GMLRS development programme.

Commenting on the test firing, Marwan Lahoud MBDA's Chief Executive Officer said: "The test result was a total success and demonstrated a feasible upgrade path for range extension to meet the UK's needs. Furthermore, MBDA has successfully demonstrated that it can add value for European Nations through its ability to work in partnership with US organisations (Lockheed Martin and the US Government Missiles and Space

Command) to offer improvements to an existing system".

Rick Edwards, Lockheed Martin vice president, Tactical Missiles, said, "GMLRS is an all-weather, precision-guided munition that provides increased accuracy, thus reducing the number of rockets necessary to defeat current targets. The GMLRS rocket provides the U.S. and its allies increased precision and maneuverability."



## Defence Industry

### Armor Holdings, Inc. to Acquire Substantially All of the Assets of Second Chance Body Armor, Inc.

JACKSONVILLE, Fla., -- Armor Holdings, Inc., a leading manufacturer and distributor of security products and vehicle armor systems serving military, law enforcement, homeland security and commercial markets, announced today that it was the successful bidder at an auction to acquire substantially all of the assets of Second Chance Body Armor, Inc. (Second Chance), a manufacturer of body armor serving the law enforcement and military markets.

The total purchase price is \$45 million in cash and includes the assumption of certain liabilities. The transaction, which the Company expects to be meaningfully accretive in 2006, is subject to final approval by the United States Bankruptcy Court, Western District of Michigan and is expected to close on Friday, July 29, 2005.

Second Chance is headquartered in Central Lake, Michigan, with a manufacturing facility based in Geneva, Alabama.



## Contracts

### Engineered Support Systems received \$6.0 Million Order For U.S. Army's Stryker Brigade Combat Team

ST. LOUIS, July 27, 2005 -- Engineered Support Systems, Inc. received an \$6.0 million order for the Stryker Brigade Combat Team (SBCT) from the U.S. Army's Tank-automotive and Armaments Command (TACOM) in Warren, Michigan.

Engineered Support's wholly-owned subsidiary Systems & Electronics Inc. (SEI) will produce 28 Fire Support Mission Equipment Packages (MEPs) and 53 Fire Support Sensor System (FS3) retrofit kits for the Fire Support Variant (FSV) of the SBCT at its St. Louis and West Plains, Missouri facilities. Deliveries are scheduled to occur between May and December 2006.

This SBCT order provides Fire Support packages for the 5th and 6th SBCTs, and retrofit kits to upgrade the first three SBCTs. The SBCT represents the vanguard of the Army's transformation from the Current Force to the Future Force. SEI has produced more than 80 Fire Support Mission Equipment Packages for the Stryker Brigade Combat Team.

"The SEI team has automated the process of fire support and incremented the technology available to Army forward observers," said Gerald A. Potthoff, Engineered Support's Vice Chairman and Chief Executive Officer. "The evolution of the SEI-produced fire support equipment has continuously enhanced America's fielded warfighter capability since 1995."

The FSV mission is to provide precision far target location and laser target designation in support of the SBCT. One SBCT is currently deployed in support of Operation Iraqi Freedom. The FS3 is a high performance sensor system consisting of a thermal imager/day camera and rangefinder produced by Raytheon. In addition, FS3 has the ability to mount a laser designation module for use with laser guided munitions.

program, bringing about \$623 million into 14 companies throughout the country.

## Contracts

### U.S. Marine Corps Orders Lockheed Martin Advanced Gunnery And Virtual Combat Convoy Training Systems

ORLANDO, FL -- Lockheed Martin was awarded three contracts totaling \$15.2 million by the U.S. Marine Corps, including a follow-on order for Virtual Combat Convoy Trainers (VCCT) and two orders for Advanced Gunnery Training Systems (AGTS).

The order for two VCCT simulators follows the service's initial order in January for four trainers, which currently are in service at the Air Ground Combat Center in Twentynine Palms, CA. The two additional trainers are scheduled for delivery to selected bases in September 2005.

"We train Marines to fight and win," said Col. Walter Augustin, Program Manager for Training Systems. "These simulators will enable our Marines to quickly develop the respective combat convoy operations and gunnery skills they'll need to effectively accomplish their mission once they are deployed in harm's way."

One of the Marine Corps' orders for the AGTS calls for four full fidelity Light Armored Vehicle (LAV-25) systems and 17 deployable systems, all scheduled for delivery by December 2006. The second order is for 10 deployable M1A1 Abrams Main Battle Tank training systems, slated for delivery by April 2007.

"We are providing training devices to the Marines that are designed to help reduce casualties and save lives in combat," said Jim Craig, Vice-president of Ground, Maritime and Civil Solutions at Lockheed Martin Simulation, Training & Support. "Both AGTS and VCCT are proven simulators that enable troops to hone their skills for mission success."

AGTS is a state-of-the-art simulator designed to train individuals, crews and platoons in the skills of precision gunnery to a level of proficiency that allows troops to rapidly transition to live fire training or combat gunnery. Marines use the system's embedded, combat focused instructional system to develop skills to survive direct fire engagements on the battlefield. The training device can be installed in fixed facilities, relocatable shelters or on transportable platforms to support training in any environment.

The Lockheed Martin VCCT consists of a 53-foot, self-contained, deployable commercial trailer and is capable of integration with other training devices, such as the Close Combat Tactical Trainer. Using a full-scale Humvee and simulation system that replicates scenarios troops might encounter, it enables combat crews to communicate, maintain situational awareness and acquire targets while moving at highway speeds operating in a convoy environment. More than 13,500 troops have been trained.

Lockheed Martin teams with Firearms Training

## Defence Industry

### Javelin Enters Service in the U.K. Four Months Early



WARMINSTER, U.K., -- UK Javelin, developed and produced by the Raytheon/Lockheed Martin Javelin Joint Venture for the U.K.'s Light Forces Anti-Tank Guided Weapon program, has been declared operational four months ahead of schedule.

The announcement was made during a live-fire demonstration yesterday witnessed by industry and Ministry of Defence (MoD) officials at Warminster. Officials said the early in-service date demonstrates the successful close working relationship on this venture between the U.S. Department of Defense and Army, the U.K. MoD, and the Javelin Joint Venture.

"Raytheon, Lockheed Martin and all of our U.K. team members have put tremendous effort into ensuring Javelin's smooth and rapid entry into service with the British Army and Royal Marines," said Michael Crisp, president, Javelin Joint Venture. "We have been totally customer-focused in this program. The Javelin system is already the world's leading medium range man-portable fire-and-forget multi-purpose system, and it brings superb new capabilities to the U.K.'s armed forces."

"Warfighters depend upon Javelin's precision-strike capability," added Howard Weaver, vice president, Javelin Joint Venture, "We are committed to providing our U.K. customer with cost-effective, global support to ensure Javelin's continued mission success."

U.K. industry has been heavily involved in the Javelin



Systems, Inc. of Suwannee, GA, which provides firearms systems that make the VCCT a comprehensive training device.



**Contracts**

**Curtiss-Wright Awarded \$4 Million Contract for Stryker Mobile Gun System**



ROSELAND, N.J., -- Curtiss-Wright Corporation received a contract for the Stryker Mobile Gun System (MGS) for approximately \$4 million from General Dynamics Land Systems in Sterling Heights, Michigan. Curtiss-Wright will produce the Autoloader Controller, Replenisher Controller and Turret System Electronic Unit (TSEU) for the Stryker MGS through its Motion Control segment facility in Santa Clarita, California. Deliveries for this contract are expected to be completed by November 2006.

Combined, the three systems will provide fully automated loading and ammunition replenishing of the 105mm cannon to achieve sustained high fire rates needed for tomorrow's battlefield. The Autoloader Controller works in concert with the TSEU to control loading and unloading of the MGS main gun. The autoloader also works with the Replenisher Controller to transfer the main gun munitions from the replenisher to the ammunitions carousel.

"We are very pleased that General Dynamics has chosen us for this important defense contract and continues to instill their confidence in Curtiss-Wright as a premier supplier," said Martin R. Benante, Chairman and CEO of Curtiss-Wright Corporation. "The Stryker is the centerpiece of the U.S. Army's transformation into a more agile and deployable force and is currently deployed in operations in Iraq."



**Defence Industry**

**333 Leopard 2 Tanks for Greece**



Greece will receive 333 Leopard 2 main battle tanks and other vehicles from the German Federal Armed Forces. The Secretary-General for arms planning and defense investments in the Greek Ministry of

Defense, Georgios Zorbas, and the head of the armaments department in the German Ministry of Defense, Joerg , signed in Berlin today a contract covering the supply to Greece of a total of 333 Leopard 2 main battle tanks as well as further support vehicles from surplus stocks of the German Federal Armed Forces.

The vehicles will be refurbished and reconditioned before their delivery to the Greek armed forces by German industry, with the participation of Greek industry.

Greek government has representatively signed a contract for the purchase of 183 used Leopard 2 A4 and 150 Leopard 1 A5 main battle tanks (MBTs) from Bundeswehr (German Federal Army) reserves. The deal between the German and Greek governments involves a substantial work package for Krauss-Maffei Wegmann, Europe's market leader in armoured wheeled and tracked vehicles.

"The Greek government's decision to purchase further Leopard tanks underlines yet again the undisputed top ranking of this Krauss-Maffei Wegmann product on the international market", commented Frank Haun, managing director and deputy CEO at KMW. Krauss-Maffei Wegmann will have a share of around 150 million Euro in this governmental transaction for repair and technical modification of the Leopard 2 A4 MBT and for supply of special tools. In addition, KMW will provide repair capabilities for Leopard 2 A4 in Greece from 2006 on. Krauss-Maffei Wegmann GmbH & Co. KG is the European market leader in wheeled and tracked armoured vehicles.

With a workforce of around 2500 and a comprehensive systems capability, KMW, as a leading systems supplier, produces and maintains a product range extending from air-transportable and anti-mine-protected wheeled vehicles (the Mungo and Dingo) via reconnaissance, anti-aircraft and artillery systems (Fennek and the Armoured Howitzer 2000) up to and including main battle tanks (Leopard 1 and 2) and armoured-personnel carriers (Puma). The armed forces of twenty-five nations around the globe place their faith in KMW's mission systems.



**Defence Industry**

**Kuwait - TOW-2A/B Anti-armor Guided Missiles**



On 4 August 2005, the Defense Security Cooperation Agency notified Congress of a possible Foreign Military Sale to Kuwait of 436 TOW-2A/B Anti-armor Guided Missiles as well as associated equipment and services. The total value, if all options are exercised, could be as high as \$19 million.

The Government of Kuwait has requested a possible sale of 288 TOW-2A missiles, 4 TOW-2A Fly-to-Buy missiles, 140 TOW-2B missiles, and 4 TOW-2B Fly-to-Buy missiles.

Also included are spare and repair parts, supply support, publications and technical data, engineering change proposals, U.S. Government and contractor technical and logistics personnel services and other related elements of program support. The estimated cost is \$19 million. This proposed sale will contribute to the foreign policy and national security of the United States by helping to improve the security of a major non-NATO ally which has been, and continues to be, an important force for political stability and economic progress in the Middle East.

Additionally, the proposed sale will provide a signal of the U.S. Government commitment to our bilateral relationship. Kuwait will use these TOW-2 missiles to upgrade its air-to-surface day/night anti-armor defense capability and provide close air support for military ground forces. Kuwait will augment its land forces with these TOW-2B anti-armor guided missiles. This weapon sale will greatly enhance the coalition efforts within the region. Kuwait, which already has TOW-2 missiles in its inventory, will have no difficulty absorbing these additional missiles. The proposed sale of this equipment and support will not affect the basic military balance in the region.

The prime contractor will be the Raytheon Corporation of Mesa, Arizona. There are no known offset agreements proposed in connection with this potential sale. Implementation of this proposed sale will not require the assignment of any additional U.S. Government or contractor representatives to Kuwait. There will be no adverse impact on U.S. defense readiness as a result of this proposed sale. This notice of a potential sale is required by law; it does not mean that the sale has been concluded.

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### Contracts

#### **Armor Holdings, Inc. Receives \$14.4 Million Order for Ceramic Body Armor Inserts**

JACKSONVILLE, Fla. -- Armor Holdings, Inc., a leading manufacturer of security products and vehicle armor systems serving military, law-enforcement, homeland security and commercial markets, announced today that it has received a contract modification from the U.S. Marine Corps Systems Command.

The new delivery order, which is drawn from a \$66 million indefinite delivery/indefinite quantity (ID/IQ) contract announced previously, includes approximately

\$14.4 million for additional quantities of protective ceramic body armor plates to be delivered through 2006. Work under this contract will continue to be performed by the Armor Holdings Aerospace & Defense Group at its Phoenix, Arizona facilities.

Robert Schiller, President of Armor Holdings, Inc., said, "We are extremely pleased to continue with your support to the United States Marine Corps. Armor Holdings is proud to provide these vital survivability products and grateful to be serving the Corps."

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### Defence Industry

#### **BAE Systems Awarded \$70.1 Million Contract For Reset Work On Bradley Combat System Vehicles**



BAE Systems has been awarded a contract modification worth \$70.1 million from the U.S. Army's Tank-automotive and Armaments Command (TACOM) to reset Bradley Combat System vehicles.

In conjunction with the company's Public Private Partnership with the Army's Red River Army Depot (RRAD), BAE Systems will return 101 Bradleys to combat ready status for the 1st Cavalry Division.

"This program shows the benefits of our Public Private Partnership with Red River Army Depot," said Andy Hove, BAE Systems' director, Bradley Combat Systems. "By working together on the National Level Reset Program we can get a high quality Bradley back into the hands of soldiers in a very short period of time."

Disassembly and component overhaul work will be performed at RRAD and BAE Systems in Fayette County, Pa. Final assembly and test will be conducted at the company's York, Pa., facility.

The Bradley Combat System has played a centerpiece role in Operation Iraqi Freedom and continues to provide outstanding survivability, mobility and lethality to U.S. soldiers in all types of close-combat urban scenarios or in open-combat terrain. The Bradley Combat System fulfills critical infantry, cavalry, fire support, battle command and engineer roles for the Army's heavy brigades.

Work on this effort begins immediately, and vehicles are expected to be delivered through March 2006.

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### Contracts

#### **United Industrial Subsidiary AAI Corporation Wins \$13.8 Million Contract from Royal Netherlands Army for Stinger**

## Training System

HUNT VALLEY, Md., Aug. 10 -- United Industrial Corporation announced today that its wholly-owned subsidiary AAI Corporation has been awarded a \$13.8 million contract by the Royal Netherlands Army (RNLA) to provide an Advanced Moving Target Simulator (AMTS) system for air defense training for the nation's armed forces and related logistics support for a period of 15 years.

The simulator, designated Stinger Trainer by the RNLA, will be installed at the Joint Air Defense School at De Peel Air Force Base.

The AMTS is AAI's third-generation air defense trainer. The contract requires development, installation, and testing of a fully immersive, computer-generated, simulated environment inside a 64-foot diameter hemispherical dome trainer where gunners and crew chiefs can be effectively trained and evaluated on the use of Stinger missiles against aggressor aircraft.

A leader in air defense training systems for more than 30 years, AAI has produced and delivered state-of-the-art systems for the U.S. Army, U.S. Army National Guard, and U.S. Marine Corps, as well as for the armed forces of Australia, Italy, Japan, Romania, and Turkey.

"The innovative simulation training technologies of our AMTS system deliver superior training while eliminating the need to fire actual weapons -- a very significant cost savings for users," said Frederick M. Strader, president and chief executive officer of both United Industrial and AAI. "We are pleased that the Netherlands has chosen AAI's AMTS as a key element in training its forces for national defense."

United Industrial Corporation designs, produces, and supports defense systems. Its products and services include unmanned aerial vehicle systems, training and simulation systems, automated aircraft test and maintenance equipment, armament systems, logistical and engineering services, and other leading-edge technology solutions for defense needs. The company also manufactures combustion equipment for biomass and refuse fuels.

## Defence Industry

### Tiltan Chooses MAK Technologies' VR-LINK For TVIEW Visual System

Cambridge, Mass., August 4, 2005 -- MAK Technologies, the world's leading supplier of distributed simulation software, announced that Tiltan has chosen to use VR-Link in their TView visualization system making it fully compatible with both DIS and HLA simulation networks. Tiltan's TView product is used for a wide variety of military and urban planning uses.

TView is Tiltan's visual system designed to create out-the-window and sensor scenes for training and simulation. It generates photo-realistic visual and sensor scenes of real-world locations. TView also enables simulation of network-centric operations and supports

MOUT (Military Operations in Urban Terrain) scenarios.

"Simulating modern network-centric operations is a complex task, being inherently distributed and demanding high levels of graphic fidelity. Having invested heavily in the capability to visualize dense urban environments and massive scenarios, we looked to complement our graphic strengths with the best solution we could find for interoperability," said Yaron Vilan, Tiltan's vice president of business development.

"We believe that by embedding MAK's excellent product into TView, we are providing our customers with better value and investment protection, as well as reinforcing TView's position as the best-of-breed PC-based interoperable visualization solution."

VR-Link is a networking toolkit for linking simulations via the Department of Defense HLA and DIS networking protocols. It is the best-selling toolkit of its kind. VR-Link simulations can be fully HLA compliant while simultaneously maintaining DIS compatibility. VR-Link provides a single documented API that abstracts away the details of DIS or HLA "It is only natural that Tiltan's TView, being widely used at Israeli Ministry of Defense, is using VR-Link, the de facto standard for Israeli industry and IMOD when they need DIS and HLA networking," said Amir Shiloah, copartner and managing director of Synergy. "This decision opens Tiltan to enjoy the power of interoperability." Synergy Integration Ltd., MAK's reseller in Israel, was responsible for negotiating the sale.

## Contracts

### BAE Systems Awarded \$122.3 Million Contract Modification For FCS Armed Robotic Vehicle



BAE Systems has been awarded a contract modification worth a minimum of \$122.3 million for the transition effort for two Armed Robotic Vehicle (ARV) variants for the U.S. Army's Future Combat Systems.

"BAE Systems is committed to bringing the new capabilities of the Armed Robotic Vehicles to the Army, and to our soldiers as quickly as we can," said Buck Tanner, Armed Robotic Vehicle Program Manager for BAE Systems.

This contract modification, awarded April 6, increases the total authorized value of the System Development and Demonstration (SDD) contract from \$189 million to



\$311.3 million, which could increase to \$320.5 million if \$9.2 million in additional task orders are authorized.

In 2003 BAE Systems was selected by the FCS Lead System Integrator to design and develop the two ARV variants to provide the FCS-equipped Units of Action with the ability to see and strike the enemy first, while offering soldiers unprecedented protection and survivability that would reduce exposure in high vulnerability reconnaissance and assault missions.

Under the current modification, the ARV program has been accelerated and BAE Systems is now scheduled to field the first prototypes in 2010, with fielding to FCS-equipped Units of Action scheduled for 2012-2014. The period of performance has been extended through March 2013.

This modification also increases the prototype quantities for two of the ARV variants.

The semi-autonomous ARV is the largest unmanned ground vehicle in the Army's FCS program, and will be an integral platform within platoons and companies in the FCS-equipped Units of Action. ARV is to be about the size of a large pickup truck and will be highly deployable, either two at a time on C-130 airplanes or individually with CH-47 helicopters. The ARV is intended to provide battlefield commanders new and unmatched capabilities for reconnaissance, surveillance, target acquisition, as well as assault firepower. The two variants will share a common chassis.

One of the ARV variants will carry a cannon for self defense, disperse ground sensors, and conduct battle damage assessments. The other ARV variant integrates Beyond-Line-of-Sight (BLOS) missiles, a powerful automatic cannon and a high rate of machine gun fire.

BAE Systems is also working under an SDD contract for FCS Manned Ground Vehicle (MGV) development, and is teamed with General Dynamics to lead the MGV effort. The companies have integrated design teams developing a family of eight manned ground vehicles featuring a common platform design with common components and subsystems, with unique mission modules.

Detroit Diesel will deliver 47 engines through 2011 and provide test support through 2015.

This engine will power the entire family of FCS manned ground vehicles, which includes the Mounted Combat System (MCS), Command and Control Vehicle (C2V), Reconnaissance and Surveillance Vehicle (RSV), Infantry Carrier Vehicle (ICV), FCS Maintenance and Recovery Vehicle (FMRV), Medical Evacuation Vehicle (MV), Non-Line-of-Sight Cannon (NLOS-C) and Non-Line-of-Sight Mortar (NLOS-M).

In March 2002, Boeing and Science Applications International Corporation (SAIC) were selected by the U.S. Army as the Lead Systems Integrator (LSI) for the Army's Future Combat Systems.

In December 2003, General Dynamics Land Systems was awarded a \$2 billion contract by Boeing, as part of the LSI team, for engineering development and demonstration of the MGV family of vehicles.

Under that contract, General Dynamics is leading the MGV common design team through engineering development, testing and demonstration of prototypes. General Dynamics Land Systems and BAE Systems Land & Armaments, which received a similar subcontract, have formed an integrated design team to develop and demonstrate a family of eight manned ground vehicles sharing common components and subsystems, such as the engine.

FCS is the core building block of the Army's Future Force. It is a joint (across all the military services) networked System of Systems (one large system made up of 18 individual systems, the network and the Soldier.)

Future Combat Systems are connected through an advanced network architecture that will enable levels of joint connectivity, situational awareness and understanding, and synchronized operations that have been unachievable.

FCS will operate as a System of Systems (SOS) that will network existing systems, systems under development, and systems yet to be developed to meet the requirements of the Army's Future Force Unit of Action.

## Future Technologies

### General Dynamics Selects Engine for FCS Manned Ground Vehicles



STERLING HEIGHTS, Mich. - General Dynamics Land Systems, a business unit of General Dynamics, has selected the 5L890 engine manufactured by Detroit Diesel Corporation to power the Army's Future Combat Systems (FCS) Manned Ground Vehicles.

## Defence Industry

### Empl is going to deliver 1014 swap bodies as well as 20 special trailers to the Austrian Armed Forces



This specially developed swap system together with customized bodies totally meets the requirements of the Austrian Military for efficient utilisation. Furthermore, it offers the soldiers flexible and diverse possibilities of operation.

On July, 8th, Empl presented - together with the representatives of Daimler Chrysler and MAN Austria - the first prototype to the Austrian Minister of Defence. This prototype - a troop carrier mounted on an Unimog - is equipped with specially developed safety seats and is the first out of 236 swap bodies for troop carrying. In addition, Empl is going to deliver several 100 units of ambulances, cargo bodies, communication equipment carriers and mobile workshops.

The huge advantage of the swap bodies, developed by Empl: One and the same body can easily and safely be mounted either on one of the 268 all-terrain Unimog or on one of the 307 MAN road vehicles. Consequently, the HGV's are permanently in operation and used very economically. A special subframe enables "torsion-free" fixing of the swap bodies on the truck chassis.

Further advantages of the Empl swap system: It can be extended by any kind of special superstructure for future areas of operations and - for international operations - the bodies can be easily and efficiently carried by rail or, due to the system-integrated special trailers, by aeroplane.

The new HGV armada for the Austrian Armed Forces with Empl swap bodies - state-of-the-art technology, safe, flexible and economic!



**Defence Industry**

**DRS Technologies Awarded \$24 Million Contract To Produce Infrared Assemblies For Javelin Missile Command Launch Unit**



Parsippany, NJ, August 23 -- DRS Technologies, Inc. announced that it has received a \$24 million production contract on the Javelin Anti-Tank Weapon System program. Javelin is the world's premier man-portable, fire-and-forget, medium-range, anti-tank weapon system.

It is utilized by U.S. Army and Marine Corps combat units and also is approved through the U.S. Army's Foreign Military Sales (FMS) program for international procurement.

The contract was awarded by Raytheon Missile Systems Company, a unit of Raytheon Company (NYSE: RTN), located in Tucson, Arizona. For this award, the fifth order under a multi-year contract, the company's DRS Infrared Technologies unit in Dallas, Texas will produce Second Generation Forward Looking Infrared (2nd Gen FLIR) Integrated Dewar Cooler Assemblies (IDCAs) for the Javelin's Command Launch Unit (CLU).

Deliveries of more than 1,200 CLUs are expected to begin in early 2006 and continue through June 2007. Additional orders on this program are anticipated by the company.

"Javelin is a proven, revolutionary, superior ground combat weapon system, providing the highest levels of performance, effectiveness and survivability for our ground forces," said Fred L. Marion, president of DRS's Surveillance and Reconnaissance Group. "Our highly sensitive infrared IDCAs are key components supporting the Javelin's targeting and fire-and-forget capabilities. An important program for DRS, Javelin supports our reputation as a supplier of choice for critical, multi-year programs requiring Second Generation infrared components and assemblies."

DRS has delivered over 5,000 2nd Gen FLIR components and assemblies for the Javelin since the program's inception and is the sole supplier of the IDCAs for the Javelin's CLU.

The Javelin missile system was developed by a joint venture between Raytheon Systems Company and Lockheed Martin Missiles and Fire Control, a unit of Lockheed Martin Corporation (NYSE: LMT). It replaces the aging, wire-guided Dragon missile in ranger and special operations units, infantry and engineer battalions, and armored Scout platoons. Javelin supports the Army's transformation efforts, including current and future forces, by enabling a single soldier to defeat any armored vehicle. It has more than twice the range of earlier man-portable anti-tank weapons and uses DRS's critical 2nd Gen FLIR technology to target threats during the day or night. DRS's detection and Dewar assembly contains the highly sensitive infrared focal plane array detector. The company's patented, quieter, dual-opposed piston coolers eliminate the noise of earlier sights, thereby helping the user to remain concealed.



**Defence Industry**

**Force Protection Industries Ships First Armored Vehicle for Joint DOD Task Force**



LADSON, S.C.--Leading armored vehicle manufacturer Force Protection, Inc., supporting U.S. armed forces against explosive threats in Iraq, announced it has shipped the first Cougar Joint Explosive Ordnance Disposal Rapid Response Vehicle (JERRV) under a joint-services contract



awarded by the Department of Defense on May 15, 2005.

Marine Corps Systems Command administers the JERRV program, which is funded by the Joint IED Defeat Task Force. Under an accelerated production schedule, a total of 122 vehicles will be completed and delivered to Iraq by the end of February 2006 where they will be used to support troops in the Army, Navy, Air Force and Marines who are engaged in Operations Iraqi Freedom and Enduring Freedom.

"Today's shipment is indicative of Force Protection's commitment and ability to deliver critically-needed equipment to our soldiers in conflict," said CEO Gordon McGilton. "We are delivering the world's most advanced ballistic protection technology at an unprecedented rate, and will continue to do everything necessary to ensure that all branches of the military receive these vehicles as we fulfill the terms of this joint contract."

As part of the contract, Force Protection will also provide spare parts, operator and maintenance training and in-country field service representatives to assist in the rapid deployment of the vehicles.

"The Cougar JERRV vehicle is a vitally important component of U.S. operations in Iraq," said Force Protection Industries, Inc. President Ted McQuinn. "This effort is also a clear example of our federal government's new acquisition strategy: the Department of Defense rapidly gathered new vehicle requirements from field commanders; the acquisition community documented those requirements to industry suppliers; and Force Protection has now partnered aggressively with our subcontractors to deliver this first vehicle as specified, on time."

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