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# Brazilian Defence Exports; Diversification in Geographical Structure, Limitation in the Range of Exported Items





Back in the '80s Brazil was considered a global player in the production and export of arms and especially in the arms market of the third and developing world. However the late '80s and early '90s brought a sudden and serious crisis for Brazilian defence industry. A significant amount of Brazilian arm transfers were made to Iraq and when the Iran-Iraq war

finished in the early '90s Brazil had lost one of its main buyers. Currently, Brazilian defence industry is trying to recover the place that it had in the 1980s. Embraer is the leading company in this effort. Embraer was Brazil's largest exporter from 1999 to 2001 and the second largest in 2002, 2003 and 2004; something that highlights the important place that it has both in the defence industry and in the economic life of the country.

### **Brazilian Defence Exports**

	2010	2011	2012	2013	2014	Total
Ecuador	62	18				79
Indonesia			18		37	55
Chile	35					35
Angola				26		26
Dominican Republic	26					26
Malaysia	25					25

### Source: SIPRI

Brazilian arms exports are rather diversified in its geographical structure and limited in the range of exported items. The four (4) first countries at importing arms from Brazil for the period 2010-2014, based on the amount of funds allocated are Ecuador, Indonesia, Chile and Angola. This actually denotes that Brazil is exporting in three (3) different continents, South America, Asia and Africa.

The diversification of the geographical allocation of Brazilian exports contrasts the constraint of exported items spectrum. Aircrafts are the predominant area of exports for a total amount of 244 million US dollars at constant (1990) prices for the period 2010-2014, whereas other areas such as artillery, missiles and sensors luck significantly.

The state of Brazil has been a vital and strong ally in the effort of the defence industry to reestablishes its place in the international defence market. By adopting a strategy of constantly rising defense budgets it has the opportunity of injecting funds into the industry, and therefore completing strategic projects, such as KC-390 that will potentially transform the country into a key global player. Additionally, by adopting a policy, which considers the

transfer of technology to local companies as a prerequisite for future defence procurements, the Brazilian state is trying to create the proper circumstances for the further development of the national defence industry.

Kyriazis Vasileios, Epicos Newsletter Head Editor

# Super Tucano: Embraer Sucured Contracts with the Republic of Mali and the Republic of Ghana

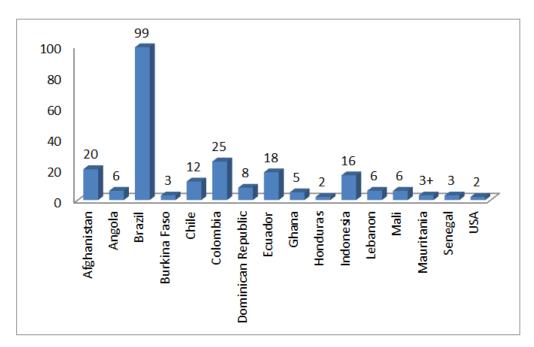




Super Tucano is a military turboprop aircraft for basic and advanced training, light attack and weapons familiarization, as well as counter insurgency (COIN), close air support and reconnaissance missions in low threat environments. Super Tucano is an enhanced version, with faster speed and higher altitude, of the Tucano trainer aircraft which is

operational in the Air Forces of 17 countries. By introducing Super Tucano the company is trying to repeat the achievement of Tucano, which has probably been the biggest achievement of Embraer, in the defence sector. Embraer has secured two international sales for Super Tucano, one with the Republic of Ghana for the acquisition of five A-29 Super Tucano aircraft, and another one with the Republic of Mali for the acquisition of six A-29 Super Tucano aircraft.

The contracts signed with the Republic of Ghana and with the Republic of Mali, include logistic support for the operation of these aircraft as well as the set-up of a training system for pilots and mechanics in Ghana that will provide the autonomy of the Ghana Air Force in preparing qualified personnel. The A-29 Super Tucano will be deployed for advanced training, border surveillance and internal security missions.



Number of Super Tucano's Operated (Currently or in the Near Future) by Country

Regionally, Super Tucano is mainly used by the air forces of Latin and Central American countries. Nevertheless, with the exception of Europe and Australia, countries from all the

other continents are currently operating the aforementioned aircraft or they will in the near future.



Super Tucano Operators

Super Tucano has been operating with the air forces of several Latin American countries. In Colombia the aircraft is used for intense internal security operations. In Dominican Republic, the aircraft is providing internal security and helping counter illegal activities. In Brazil, Super Tucano is providing border security and helping counter illegal activities. In Ecuador the aircraft is flying advanced training and operational missions, whereas in Chile is providing tactical training and intelligence, surveillance and reconnaissance missions.

Kyriazis Vasileios, Epicos Newsletter Head Editor

# Epicos "Industrial Cooperation and Offset Projects"

epicos.com Epicos "Industrial Cooperation and Offset Projects" provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

For Further Information Press Here

### Development of an advanced UAV simulation for both Test bed and Operational Training



A leading company active in Military Simulation, offering technologically advanced solutions and services in the development and integration of turnkey projects for the military simulation market, is proposing the development of an advanced UAV simulation solution for both Test bed and Operational Training.

For Further Information Contact our ICO Department

Mail at: g-menexis@epicos.com

# Upgrade of aircraft and helicopters internal & external lighting for Night Vision Imaging Systems (NVIS) compatibility



A company with extensive experience in the design and manufacturing of illuminated display and control systems is proposing in the frame of an offset program cooperation with a military or homeland security agency or with prime contractors for the upgrade of special operation aircraft and helicopters internal & external lighting for Night Vision Imaging Systems (NVIS) compatibility.

For Further Information Contact our ICO Department

Mail at: g-menexis@epicos.com

## News from our A&D Business Network



### Australia - AGM-88B High Speed Anti-Radiation Missiles



The State Department has made a determination approving a possible Foreign Military Sale to Australia for AGM-88B High Speed Anti-Radiation Missiles and associated equipment, parts and logistical support for an estimated cost of \$69 million. The Defense Security Cooperation Agency delivered the

required certification notifying Congress of this possible sale on June 19, 2015.

The Government of Australia has requested possible sale of up to fourteen (14) AGM-88B High Speed Anti-Radiation Missiles (HARM) Tactical Missiles, sixteen (16) AGM-88E Advanced Anti-Radiation Guided Missiles (AARGM) Tactical Missiles, four (4) CATM-88B Captive Air Training Missiles, eight (8) CATM-88E Advanced Anti-Radiation Guided Missiles (AARGM) Captive Air Training Missiles, six (6) AARGM Guidance Sections, five (5) AARGM Control Sections, and two (2) AARGM Tactical Telemetry Missiles (for live fire testing), containers, spares and repair parts, support equipment, publications and technical documentation, personnel training and training equipment, U.S. Government and contractor engineering, technical, and logistics support services, and other elements of logistics and program support. The estimated cost is \$69 million.

This sale will contribute to the foreign policy and national security of the United States by helping to improve the security of Australia, a major contributor to political stability, security, and economic development in Southeast Asia. Australia is an important ally and partner that contributes significantly to peacekeeping and humanitarian operations around the world. It is vital to the U.S. national interest to assist our ally in developing and maintaining a strong and ready self-defense capability. This proposed sale is consistent with those objectives and facilitates burden sharing with a key ally.

The proposed sale will improve Australia's capability in current and future coalition efforts. Australia will use this capability as a deterrent to regional threats and to strengthen its homeland defense. Australia will have no difficulty absorbing these missiles into its armed forces.

The proposed sale of this equipment and support will not alter the basic military balance in the region.

The principal contractor will be Orbital ATK Defense Electronics Systems in Northridge, California. There are no known offset agreements proposed in connection with this potential sale.

Implementation of this proposed sale will not require the assignment of contractor representatives to Australia.

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 and does not mean the sale has been concluded.

All questions regarding this proposed Foreign Military Sale should be directed to the State Department's Bureau of Political Military Affairs, Office of Congressional and Public Affairs, pm-cpa@state.gov.

For Further Information Click Here

# Rockwell Collins and GPS Source successfully demonstrate M-Code GPS receiver in the DAGR Distributed Device



GPS Source and Rockwell Collins have successfully demonstrated the ability of the Military-Code Ground-Based GPS Receiver Application Module (GB-GRAM-M) receiver card to fit

within the Defense Advanced GPS Receiver (DAGR) Distributed Device (D3). GPS Source and Rockwell Collins are the first to provide this capability for the M-code signal, which is one of the key elements in the modernization of military GPS capabilities.

The initial fit checks confirm that the Rockwell Collins GB-GRAM-M Type II receiver fits within the volume of the D3 and is able to acquire, track and navigate using C/A, Y and M-code while enclosed in the unit. Initial testing also validated backwards compatibility of the IS-GPS-153 serial port interface of the GB-GRAM-M receiver.

"These outstanding initial results confirm our confidence that the MGUE integration with the D3, when authorized to proceed, will be achieved in short order and with a very high probability of success," said GPS Source Chief Executive Officer Robert Horton.

Mike Jones, vice president and general manager of Communication and Navigation Products for Rockwell Collins, added, "This demonstration paves the way for the D3 to incorporate the next-generation GPS capability that our GB-GRAM-M provides."

GPS Source's D3 supports new or retrofit programs integrating radio or communications equipment. It removes the burden of multiple SAASM GPS receivers or antennas. As a Selective Availability Anti-Spoofing Module GPS router, it is designed to meet the U.S. Army's DAGR Distributed Device (D3) performance requirements, mounted into an existing DAGR vehicle mount, utilizing standard DAGR accessories.

The Rockwell Collins GB-GRAM-M is the product of one of the MUE card development contracts, awarded by the U.S. Air Force Space and Missile Systems Center. The program is developing the next generation of GPS user equipment to include a new military signal and enhanced security architecture.

### **About Rockwell Collins**

Rockwell Collins is a pioneer in the development and deployment of innovative communication and aviation electronic solutions for both commercial and government applications. Our expertise in flight deck avionics, cabin electronics, mission communications, simulation and training, and information management is delivered by a global workforce, and a service and support network that crosses more than 150 countries. To find out more, please visit <a href="https://www.rockwellcollins.com">www.rockwellcollins.com</a>.

### **About GPS Source**

GPS Source is systems integrator for mission critical C4ISR equipment. Our technology allows GNSS equipment to acquire signals in otherwise denied environments, such as aircraft, military ground vehicles, and aircraft maintenance hangars. GPS Source, Inc. is an AS9100 certified veteran owned small business. For more information, please visit www.GPSSource.com.

## **Epicos NewsRoom**



### **Another VIP Bell 525 Sale Goes to Middle Eastern Customer**

Bell Helicopter, a Textron Inc. company, announced today the order of another Bell 525 in VIP configuration to a customer in the Middle East. With over 60 letters of intent for the advanced aircraft around the world, demand for the Bell 525 Relentless is intensifying with momentum gaining in the Middle East.

"The Bell 525 Relentless is a game changer," said Patrick Moulay, vice president of global sales and marketing at Bell Helicopter. "Its payload and range performance enables operators to perform a diverse mission set more cost effectively than any aircraft available on the market today. The final preparations for the first flight are underway and we expect to see it flying in a matter of weeks with deliveries planned to begin immediately following certification in early 2017."

The Bell 525 is also the world's first fly-by-wire commercial helicopter, designed to operate safely and reliably in austere environments with decreased pilot workload. The aircraft integrates critical systems data to be easily accessible at-a-glance with the first fully-integrated touch screen flight deck designed for helicopters, the Garmin G5000H®. Best-inclass payload, cabin, cargo volumes, comfort and egress complement the technological advancements on the aircraft. The Bell 525 is being tested in Bell Helicopter's fully integrated System Integration Lab (SIL), allowing for virtual flight testing of the Bell 525 before first flight, which is scheduled in the coming weeks.

"We have seen significant interest in the Bell 525 configured for VIP missions," added Moulay. "With the aircraft's spacious interior and ability to be equipped with advanced technologies and entertainment amenities, the Bell 525 provides the customer with a space that is fully customizable for their needs."

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For Further Information Click Here

Source: Epicos, Bell Helicopter

### **BAE SYSTEMS Launches Cloud-Based Cyber Security in Canada**

BAE Systems today announces that it is bringing cloud-based cyber security to commercial organizations in Canada for the first time. The company is introducing a suite of security products designed to defend against targeted attacks, including so-called "Zero Day attacks."

The new offerings come largely as a result of BAE Systems' acquisition of SilverSky, a leader in The Forrester Wave™ Managed Security Services: North America, Q4 2014 report by Forrester Research, Inc. BAE Systems protects the digital assets of more than 5,500 organizations worldwide. The company has a strong presence in Canada and provides some of the world's most advanced, technology-led solutions to over 250 Government and business organizations to help protect national security and keep critical information and infrastructure secure.

The company has been recognized as a top player in the cloud business email market and the expansion into the cloud of the company's security offering in Canada meets high customer demand for a wide and flexible portfolio of solutions - from on-premise services to cloud-based services and managed security services - to combat the ever-increasing cyber threat. Most cyber attacks start with an email message; the first set of cloud-based products to be introduced by BAE Systems will therefore comprise BAE Systems' Email Protection Services (EPS) which provides comprehensive protection against even the most advanced threats. The offerings include:

- Zero Day Prevention
- Insider Threat Prevention
- Email Data Loss Prevention (DLP)
- Email Encryption
- Email Anti-Virus and Anti-Spam
- Email Archiving
- Email Business Continuity

In the face of an ever evolving cyber threat and increasing budget pressures, companies are increasingly seeking better protection through advanced security platforms while requiring that costs be significantly reduced. The new services offered by BAE Systems meet this demand. They are offered entirely from the cloud, greatly reducing integration time and complexity, and eliminating the need for on-premises software and hardware. Customers will gain access to the technology they need more easily and more quickly in a way that suits them.

With 70-90% of malware being unique to any single organization, the most difficult attacks to defend against are Zero Day attacks – attacks that are unknown or have not previously been seen and that, as a consequence, require advanced defence. Therefore, a core element of BAE Systems' EPS solution is Zero Day Prevention, which provides customers with the most advanced protection from today's sophisticated threats. Most importantly, the technology is based on innovative and pioneering techniques which analyze the email in the cloud for malicious content and intent, before it reaches the recipient.

Additionally, one of the biggest risks to businesses is the threat of employees who accidentally or purposefully leak data. Most companies are woefully unprepared for this kind of problem, but BAE Systems makes it easy to find and investigate insider issues with its Insider Threat Prevention service, which forms part of the EPS product suite.

These cloud-based cyber security solutions leverage BAE Systems' expertise as a leader in risk analytics and cyber defence. Tim Harvey, President, Commercial Solutions, BAE Systems Applied Intelligence, said:

"Cyber intelligence is arguably the best defence companies can employ against the current wave of attacks on their critical assets. By introducing Canadian companies to military-grade, cloud-based protection in a way that is easy to buy, consume and manage, we aim to help protect those companies against today's most sophisticated threats. Not only can cloud-based services be delivered within short timescales - dealing with threats almost immediately – companies will also have the ability to scale their security up or down, as required, making them more agile in their response."

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About BAE Systems

At BAE Systems, we provide some of the world's most advanced, technology-led defence, aerospace and security solutions and employ a skilled workforce of some 83,400 people in over 40 countries. Working with customers and local partners, we develop, engineer, manufacture and support products and systems to deliver military capability, protect national security and people and keep critical information and infrastructure secure.

BAE Systems Applied Intelligence is a business division of BAE Systems that delivers solutions that help clients to protect and enhance their critical assets in the intelligence age. Our intelligent protection solutions combine large-scale data exploitation, 'intelligence-grade' security and complex services and solutions integration. We operate in four key domains of expertise: cyber security, financial crime, communications intelligence and digital transformation.

Leading enterprises and government departments use our solutions to protect and enhance their physical infrastructure, mission-critical systems, valuable intellectual property, corporate information, reputation and customer relationships, competitive advantage and financial success.

For further information about BAE Systems Applied Intelligence, please visit www.baesystems.com/ai

Source: Epicos, BAE System

### **ATLANTIC Airways Signs Contract for Two AW139 Helicopters**

Fimeccanica-AgustaWestland announced today that Atlantic Airways has signed a contract for two AW139 intermediate twin helicopters. The aircraft will be used to perform SAR (Search and Rescue) missions and scheduled passenger transportation within the Faroe Islands. The helicopters are expected to be delivered late 2015 and in spring 2016 respectively, and will replace two B412s.

This latest contract marks the entrance of AgustaWestland helicopters into the Faroe Islands and further strengthens the already significant presence of the AW139 in Northern Europe, where it is used by a number of government and private customers in many countries to carry out a range of missions including passenger transport, search and rescue, emergency medical service, offshore transport, law enforcement and military duties.

"This is a significant improvement of our helicopter service as the old helicopters are downgraded as new and stricter regulations are introduced in the field," Jørgen Holme, Chief Executive Officer of Atlantic Airways, said. "With AW139 helicopters we are acquiring a modern fleet ready for the future, and which meets all relevant standards."

The only new generation helicopter in its weight class, the AW139 sets new standards of performance in its category with a maximum cruise speed of 165 knots (306 km/h) and a maximum range in excess of 570 nm (1060 km) with auxiliary fuel. The aircraft has outstanding one engine inoperative capabilities, even in hot and high environmental conditions. The AW139, together with the next generation AW169 and AW189 models, is part of the AgustaWestland Family of new generation helicopters which possess the same high performance flight characteristics and safety features, as well as sharing a common cockpit layout, design philosophy and maintenance concept. This commonality will allow more effective operations for customers operating helicopter fleets across the 4 to 8.5 tonne categories.

The AW139 benefits from a range of modern, constantly enhanced and tailored support and training capabilities, designed to deliver outstanding mission effectiveness and safety standards whatever the mission, leveraging on the expanding network of AgustaWestland service and training centres worldwide. With orders for almost 900 aircraft in more than 70 countries from more than 220 customers and over 730 aircraft already in service, the AW139 is the best-selling intermediate twin engine helicopter in the world.

Atlantic Airways, the national airline of the Faroe Islands, was founded in 1987 and began operating scheduled flights in March 1988. The 2015 schedule includes destinations in Denmark, Norway, Iceland, Spain, as well as the UK, all served with a fleet of three A319 aircraft. In addition two helicopters are operated on local services within the 18 Faroe Islands and provide as well search and rescue missions.

For further information please visit www.atlantic.fo

Source: Epicos, Fimeccanica-AgustaWestland

### **Shimco and Keronite Sign Agreement at Paris Airshow**

Shimco, a world-wide leader in the manufacture of precision parts and gap management solutions, announced today the signing of a Memorandum of Understanding (MOU) with advanced surface solutions company Keronite for the development of metallic, solid and peelable shims in aluminium and titanium for aerospace applications.

The MOU will see the two companies combining technologies to develop a new, environmentally-clean range of products for entry into service over the next 12 – 18 months.

Commenting on the partnership, Matt Hamblin, CEO of Keronite, said: "I'm really pleased that we've completed this deal at our inaugural Paris Airshow. This partnership will enable both Keronite and Shimco to bring together the benefits of our combined technologies to offer something new to our aerospace customers.

"As a clean technology, Keronite provides an environmentally-friendly, cost-effective alternative to traditional surface treatments and the fact it can be tailored to provide differing performance characteristics at different points on a component means it's a truly enabling, flexible solution."

Peter Voss, President, CEO and owner of Shimco, added: "We're excited by the potential offered by this agreement with Keronite, which will allow us to develop a variety of aluminium and titanium products for aerospace with enhanced performance characteristics.

"Installing a Keronite system at our new headquarters in Cambridge, Ontario is a key part of our vision of using the most environmentally-friendly, technologically-advanced materials on the market to become an end-to-end solution provider to our OEM and Tier-1 system-integrator customers."

Shims are thin, often tapered or wedge-shaped pieces of material that are used to fill small gaps or spaces between assembly items. In particular, they are often used as spacers, filling gaps between component parts that are subject to wear and tear.

The Keronite system is the world's most advanced electro-chemical surface treatment for light alloys. It enhances material properties by converting the alloy surface to a hard ceramic coating that grows into and out from the alloy surface. Typical benefits include improved alloy strength, wear resistance, chemical stability, thermal and electrical performance.

### **About Keronite**

Keronite is the world's most advanced surface treatment for light alloys such as aluminium, magnesium and titanium. A patented, industrially-proven, clean technology, the Keronite process produces hard, dense ceramic surface layers that enhance the durability of components by delivering wear resistance and corrosion protection in the most demanding of applications, such as aerospace, medical, oil and gas and automotive.

Keronite is owned by Azini Capital, which acquired its interest in the business in 2007. For further information, visit <a href="https://www.keronite.com">www.keronite.com</a>

### **About Shimco**

For over 25 years, Shimco has served the aerospace, defense, space, industrial and other sectors worldwide. Shimco is a world-wide leader in the manufacture of precision parts and gap management solutions (such as laminated and edge-bonded shims, tapers and spacers), in materials ranging from aluminum and titanium through to synthetics and composites.

Shimco offers a tradition of innovation, precision and execution, providing solutions that conform to exacting international and customer-specific standards. Shimco is registered with the Canadian Controlled Goods Program and is an ISO9001:2008 & AS9100C registered company. Their commitment to quality, on-time delivery, lean manufacturing, customer support, the environment and financial strength is unparalleled. Canadian Headquarters are located in Markham, Ontario.

We are dedicated to be a preferred strategic partner to global aerospace, space and defence OEMs and Tier 1 system integrators, suppliers and MRO organizations, providing value and service on everything that flies.

Visit: www.shimco.com

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Source: Epicos, Shimco

### Embraer Defense & Security sells five A-29 Super Tucano to the Ghana Air Force

Embraer Defense & Security and the Ministry of Defence of the Republic of Ghana have signed a contract for the acquisition of five A-29 Super Tucano light attack and advanced training turboprops. The contract includes logistic support for the operation of these aircraft as well as the set-up of a training system for pilots and mechanics in Ghana that will provide the autonomy of the Ghana Air Force in preparing qualified personnel.

The A-29 Super Tucano will be deployed for advanced training, border surveillance and internal security missions.

"We are pleased to welcome Ghana Air Force as a new operator of the Super Tucano, an aircraft that is already consolidated in the global market, expanding our presence in Africa", said Jackson Schneider, President of Embraer Defense & Security. "We are confident that, with this acquisition, the Air Force of Ghana will be equipped with the most appropriate and proven solution to attend its operational needs"

The A-29 Super Tucano is currently used by ten air forces in three continents. It was also selected by the United States Air Force (USAF) for its Light Air Support (LAS) program. After more than ten years in action, the Super Tucano has gained an excellent performance record: over 230,000 flight hours and 30,000 combat hours. Embraer has received more than 210 firm orders and has delivered more than 190 aircraft.

The Super Tucano is a robust and powerful turboprop aircraft capable of carrying out a wide range of missions, including close air support and intelligence, surveillance, and reconnaissance. With more than 130 weapons configurations certified, it is equipped with advanced electronic, electro-optic, infrared and laser system technologies, as well as secure radio systems with data links and unrivalled munitions capacity. The Super Tucano is the only combat proven and fully operational light attack/advanced training aircraft in the global market. This makes it highly reliable and allows for an excellent cost-benefit ratio for a wide range of military missions, even operating from unpaved runways and in hostile environments.

The contract will come into effect once certain conditions have been fulfilled. These conditions are expected to be fulfilled during the second half of 2015.

**About Embraer Defense & Security** 

Leader in the aerospace and defense industry of Latin America, Embraer Defense & Security offers a complete line of integrated solutions such as C4I (Command, Control, Communication, Computers and Intelligence Center) applications, leading edge technologies in the production of radars, advanced information and communication systems, integrated systems for border monitoring and surveillance, as well as military and government transportation aircraft. With a growing presence on the global market, Embraer Defense & Security products are present in more than 60 countries.

Follow on Twitter: @EmbraerSA

**Source**: Epicos, Embraer Defense & Security