

PZL-ŚWIDNIK AWARDED CONTRACT TO SUPPLY POLISH ARMED FORCES WITH 32 AW149s

PZL-Świdnik is to supply 32 multi-role AW149 helicopters to the Polish Armed Forces under a PLN 8.25 billion gross (€1.76bn) contract awarded by the Polish Ministry of Defence. PZL-Świdnik, which is wholly owned by Leonardo, will act as prime contractor and host a local production line with deliveries taking place between 2023 and 2029.

The state-of-the-art AW149s will perform missions including troop transport and air support, while the contract also includes logistics, training and simulator packages.

Commenting on the agreement, Leonardo CEO Alessandro Profumo said: "This contract provides evidence of our commitment to the continued development of the helicopter capabilities and the supply chain to the benefit of the strategic Polish helicopter industry. We're proud to contribute, through modern defence technology, to the increase of the security of Poland."

Since 2010, we have invested approximately €1bn in the Polish facility which has significantly strengthened the competitiveness and industrial capabilities of PZL-Świdnik, and this contract will see further investments in support of the local production line.

The continued investment will enable domestic production, the creation of a logistics base and wide-ranging technical support for the Polish Armed Forces' AW149s in line with commitments to deliver industrial benefits to Poland.

The helicopters will be equipped for additional missions including casualty evacuation, combat search and rescue, and transport of supplies. The configuration will include observation systems, small arms, guided/unguided rockets and missiles, and self-defence systems.

The support elements of the contract include a logistics package that covers spares and consumables, as well as ground handling equipment. The training and simulator package includes comprehensive training for pilots and technical personnel, alongside delivery of suite of advanced simulators and training equipment.

The AW149 is a latest-generation military helicopter, already in service with international operators, designed to meet the most demanding requirements of armed forces worldwide. It incorporates advanced equipment, weapons and systems, which together with outstanding range, high power margins and exceptional safety and survivability, provide the ideal solution to modernise defence helicopter fleets in the medium weight category.



Image: Polish MoD

ANOTHER STEP FORWARD FOR THE TH-73A PROGRAMME

We have taken another significant step forward on the TH-73A programme, which started in January 2020 when we won the contract to supply the U.S. Navy Advanced Training Helicopter System with 130 TH-73A helicopters by the end of 2024.

During the summer of 2020, U.S. Navy instructor pilots began their training on the TH-73 aircraft at our facility in Philadelphia. The training consisted of coursework to familiarize them with the aircraft, simulator-based virtual training, and live training flights in the actual TH-73A configuration with our pilots, many of whom are former U.S. Naval aviators themselves.

The first TH-73 was unveiled to the U.S. Navy at our campus in Philadelphia in early 2021. Soon afterwards a temporary maintenance facility designed to support the helicopters at Peter Prince Airport in Santa Rosa County, Florida opened. A permanent 100,000 ft² support centre will be located at

Whiting Aviation Park, located directly across the airfield from Naval Air Station Whiting Field where the TH-73 fleet will operate.

As of today, U.S. Navy instructor pilots have exceeded 2,000 flight hours with more than 1,000 sorties at our training academy and in Florida.

We are on track, planning to carry out another 66 flight hours of Supplemental Instructor Pilot training to complete the current Navy Training mission by mid-July 2022, thereby finishing the planned 25 months of support.

The TH-73 is based on the IFR-variant of the commercial AW119Kx and will replace the TH-57 Sea Ranger, serving as the primary training helicopter for Student Naval Aviators of the U.S. Navy, the U.S. Marine Corps, and the U.S. Coast Guard for decades to come.



Photo: US Chief of Naval Operations

10,000 FLIGHT HOURS FOR BEL AIR'S TWO AW189s

We congratulate Bel Air on the achievement of passing 10,000 flight hours with its fleet of two AW189 helicopters. Bel Air, which specialises in offshore operations including oil & gas, windfarm, and offshore vessel missions, has two AW189s in service performing long-range offshore transport missions in the North Sea.

The AW189 is the latest-generation 8.6-tonne, twin-engine helicopter, designed to answer the growing offshore market demand for a safe, versatile, multi-role super-medium class helicopter. Belonging to the AWFamily of products, the AW189 is ideally suited to long-range, all-weather missions typical of offshore operations and is designed to the latest CS/JAR/FAR 29 standards. It also exceeds the airworthiness requirements of the most recent EASA/FAA amendments in the transport category, meeting the most stringent guidelines of the offshore sector.

Bel Air is also a Leonardo Authorised Service Centre offering maintenance services for the AW139 and AW189 helicopter models.



NORWEGIAN POLICE ACHIEVES AW169 FLIGHT HOURS MILESTONE

We congratulate the Norwegian Police on achieving the significant milestone of 5,000 flying hours with its AW169 fleet. The Norwegian Police became the first AW169 operator in this category following the aircraft's entry into service in June 2019.

The Norwegian Police air support unit is located at the national emergency response centre at Taraldrud, close to the capital Oslo, together with the national contingency units. The unit operates three AW169

helicopters, two of which are at 15 minutes' readiness around the clock, 365 days a year.

Missions include supporting local police, observation and surveillance, as well as transport of the contingency units. Operating day and night, the helicopters are flown in single-pilot configuration supported by technical crew members. The fleet is covered by a turnkey contract that includes full maintenance support and services provided by Leonardo.



Photo: Tom A Østrem

FIRST FEMALE AVIATOR PILOTS THE AW609 IN PHILADELPHIA

The AW609 programme achieved another notable landmark in May as we hosted two high-profile guest pilots for their inaugural flights in the revolutionary aircraft at our US headquarters in Philadelphia.

The first was Her Highness Sheikha Mozah Bint Marwan Al Maktoum, who travelled from Dubai to the United States and became the first female pilot to fly the AW609. This visit was not the first connection between Sheikha Mozah and Leonardo—she currently flies the AW139 for the Dubai Police Force, and she has also flown the Boeing 777 for Emirates Airline. This extensive aviation experience and familiarity provided her with the perfect skillset to fly the AW609.

In the words of Her Highness: “Piloting the AW609 has been on my bucket list since I first saw the early prototype images. It is the natural evolution of my piloting experience, merging both fixed and rotary-winged piloting skills. I am still pinching myself for this opportunity! Aircraft like this one make me feel really excited about the future of aviation, a future now open to more women who chose this industry.”

Her Highness spent two days at our Philadelphia campus, where she participated in ground school and simulated flights at the company’s US Training Academy, which officially opened in 2020. The next day, after completing standard pre-flight briefings and aircraft inspections along with Leonardo Experimental Test Pilot Nigel Speedy, Her Highness flew the AW609 for more than an hour and was able to experience the versatility and capability of the aircraft. This was not only a big day for the AW609 programme, but a momentous one for female aviators everywhere. “I think I’m very lucky and I’d like to thank Leonardo for this amazing experience,” she concluded.

BRISTOW: LAUNCH CUSTOMER FLIES AW609



We were delighted to welcome to Philadelphia a second high-profile guest – Bryan Willows, who is Programme Manager for Advanced Air Mobility with our AW609 launch customer Bristow Group (Bristow). Bryan has previous military tiltrotor experience having flown the MV-22 Osprey for the US Marine Corps.

Bristow is known primarily as a provider of offshore transportation, transporting oil-and-gas workers to and from rigs and platforms in a truly demanding environment. In 2020, Bristow merged with the Era Group (Era), with both entities now using the Bristow name. Era had previously announced during a signing at Heli-Expo in 2018 an order for the AW609, along with a training package to support the aircraft's entry into service. Bristow remains committed to the AW609 and the important role that vertical lift technology will play in the future of aviation.

Bryan had hoped to complete his maiden AW609 flight during the Dubai Airshow in November last year, but restricted air space prevented him from doing so. Instead, he travelled to Philadelphia, where ideal weather conditions and an enthusiastic US team greeted him pre-and post-flight.



Bryan's excitement after the flight was infectious and he said that piloting the AW609 "was like coming home". Bryan was also able to see Bristow's newly painted aircraft, housed in the company's new AW609 Production Hangar. Given that fewer than 20 individuals have ever flown the AW609, the opportunity for two distinguished guests to take the controls in the same week was truly momentous!



AW189 SELECTED FOR LONG-RANGE SAR MISSIONS IN CHINA

We are pleased to confirm that the AW189 will be increasing its presence in China following an order for six helicopters from the Rescue and Salvage Bureau PRC (MOT CRS), which is part of the country's Ministry of Transport. The AW189s will be deployed for maritime search and rescue (SAR) operations with deliveries being completed by 2023.

The PRC (MOT CRS) is China's only professional national maritime rescue and salvage force. Its missions include emergency response to maritime accidents in Chinese waters; rescues involving people, ships and property; wreck salvage operations; oil spill clean-up and other rescue missions.

MOT CRS also fulfils obligations under a variety of international conventions and bilateral agreements on maritime transport and rescue on behalf of the Chinese Government.

The super-medium, twin-engine AW189s will join an existing fleet of 20 helicopters across eight bases along China's coast. The exceptional range and performance of the AW189 will extend the SAR capability of MOT CRS to a radius of 200nm.

Gian Piero Cutillo, Leonardo Helicopters MD, said: "We are happy to contribute to this crucial life-saving programme of the Ministry of Transport, increasing its capabilities. The selection of the AW189 will deliver outstanding long-range search and rescue in demanding maritime environment conditions. We look forward to working with the operator for the introduction of the new fleet."

The order confirms Leonardo's position as a global leader in the super-medium category and strengthens our position in the Asia Pacific region. It follows the acquisition of two AW189s in November 2021 by Beijing Municipal Public Security Bureau. The helicopters will be used as part of Beijing Police Aviation's law enforcement, SAR and firefighting capabilities in the Chinese capital's metropolitan area.



US DOD AWARDS AW119KX CONTRACT FOR FOREIGN MILITARY SALE TO ISRAEL

The US Department of Defense (DoD) has awarded a \$29 million Foreign Military Sale (FMS) contract that will see Israel take delivery of new AW119Kx helicopters. The aircraft will be fully produced at our facility in Philadelphia, Pennsylvania with the US Army Contracting Command performing contracting activity.

Israel's Ministry of Defence is already an AW119Kx customer, having signed a contract in 2019 for a comprehensive range of integrated defence training capabilities that included seven AW119Kx single-engine helicopters to be produced in the United States. The extensive training programme also includes Full Flight Simulators (FFS) and a range of other training devices, alongside newly-built facilities and a 20-year support package.

The contract underlines the continued success of the AW119 with defence and homeland security operators in recent

years, including in Brazil, Ecuador, Finland, Latvia, Portugal, the Republic of Korea and the United States.

In 2020, the US DoD awarded a contract for up to 130 AW119s to replace the ageing TH-57 Sea Ranger. The AW119 will become the primary training helicopter for the US Navy, Marine Corps and Coast Guard with 104 units ordered to date.



NEW SERVICE CENTRE OPENS ITS DOOR AT PARIS-LE BOURGET

We are pleased to confirm the opening of a new helicopter service centre at Paris-Le Bourget Airport, strengthening support to customers as our commercial fleet continues to grow in central Europe.

The service centre began operations in April, initially providing support for AW109, AW169 and AW139 types. There are future plans to extend this to include the AW189 as well as Agusta-branded VIP services.

The facility will work hand-in-hand with our Belgium Logistics Hub, providing support to our expanding fleet both in France and more widely in central Europe. The service centre features more than 2,000 m² of indoor space, including maintenance and repair hangar facilities

and office space. It will also provide support to the VIP/corporate helicopter fleet which has grown considerably in the region over recent years.

More than 900 Leonardo VIP/corporate helicopters are flying today globally, with more than 35% of these based in Europe – the world's largest commercial helicopter market. Over the past decade we have seen our market share in the twin-engine VIP/corporate market rise to an industry-leading 45% thanks to the latest-generation product range featuring advanced avionics and navigation systems allied with class-leading safety, performance and comfort.

The opening of the new centre reinforces our commitment to focus on support services and customer proximity, and it adds to the more than 90 service centres in over 40 countries worldwide that make up our global support network.



MALTA HOSTS OUR FIRST SAR WORKSHOP

Our first ever Search and Rescue Workshop took place in Valletta, Malta in April and brought together international operators, industry representatives and institutions to highlight the latest advances in rotorcraft capabilities and technologies for SAR operations.

We were delighted to welcome 90 delegates from 11 countries in the Mediterranean region, including 12 helicopter operators to the two-day event, which was organised in agreement with the Ministry for Foreign and European Affairs of the Republic of Malta, and the Italian Embassy.

Five aircraft based with Italian and Maltese operators were on static display, including the AW139/AW139M and AW101 types, while two of the AW139s also undertook demo flights during the workshop.

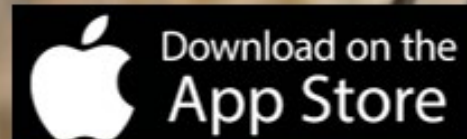
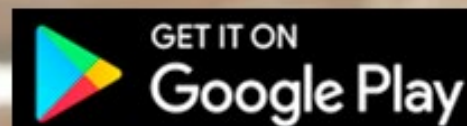


The event focused on the SAR requirements of the Mediterranean market, particularly involving deployment of the AW139. The workshop on the first day saw 16 presentations from operators, suppliers and the Leonardo team covering themes ranging from current air rescue operational trends to safety, training and support, and the challenges of next-generation SAR missions.

Day 2 enabled delegates to get hands-on experience of the AW139s and AW101 in a variety of configurations. There was a ground-based hoist practical session to demonstrate best practice, the latest standards and stretcher recovery techniques. There was also an opportunity to learn more about the Modular Interactive Trainer for Helicopter Operators (MITHOS) – Leonardo's fully immersive and

interactive training system for hoist operators, pilots, rescuers and medical operators. It uses augmented reality to reproduce helicopter hoist operations and all types of rescue scenarios in a highly realistic way.

The SAR Workshop provided to be a valuable forum to exchange views and share best practice. Delegates also provided updates on co-ordination of SAR assets – rotary, fixed-wing and maritime vessels – as well as insights in areas such as hoisting techniques, crew communications and SAR equipment. We look forward to organising more such events in different geographies in future!



ROTOR TRACK & BALANCE CAPABILITIES NOW AVAILABLE IN HELIWISE 4 MOBILE

Our HUMS Support Services are now available via mobile devices through HeliWise 4 Mobile, offering our customers support for day-to-day operations while in the field.

Operators can also access a new feature within HeliWise 4 Mobile by viewing Rotor Track & Balance (RTB) functionalities. The feature is available on all helicopters equipped with the Leonardo Helicopters HUMS Family systems.

HeliWise 4 Mobile enables operators to download data via Wi-Fi to the Helicopter's Data Transfer Device and to perform a data debrief. In addition, thanks to this news capability, operators can visualise RTB data and use the HeliWise 4 Mobile app to compute the necessary rotor adjustments required to perform the activities.

For further information, please contact us at: hums.mbx.aw@leonardocompany.com

We are always keeping our customers up to date with the latest developments and sharing experiences on the use of HUMS during dedicated HUMS conferences. The next, which is the 8th edition, will be held in Vergiate, Italy on September 22nd and 23rd.

HELIconnect

POWERING YOUR EXPERIENCE WITH LEONARDO HELICOPTERS DIGITAL SERVICES

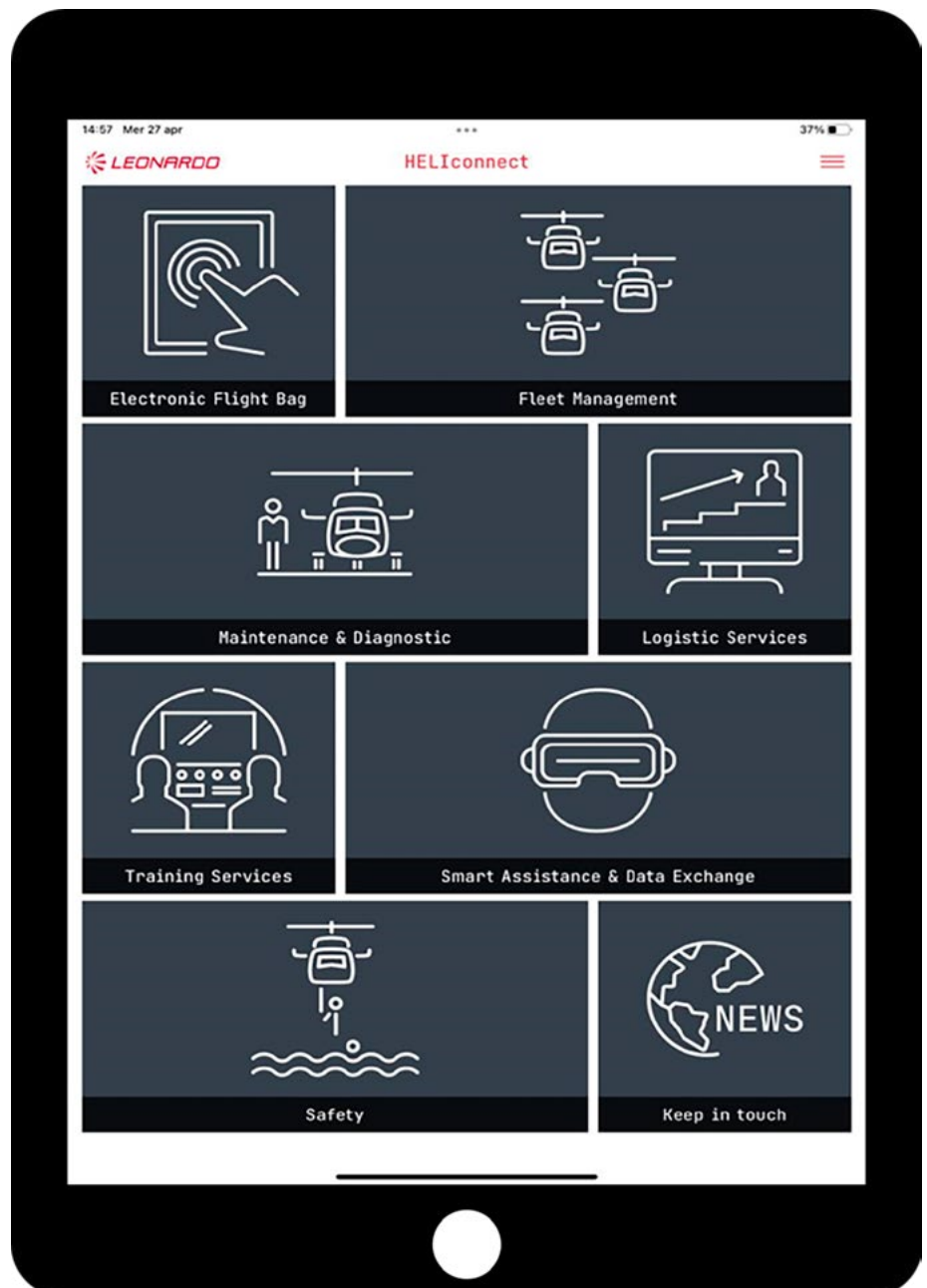
We know that today's demanding rotary-wing operations mean that staying connected is essential for our customers, both when flying and on the ground.

HELIconnect is our new mobile application that gives customers access to the entire spectrum of Leonardo Helicopters digital services—all via a single app. The new app combines speed, reliability, security and ease of use, as well as ensuring that technical contents are always up to date.

The app is part of our commitment to investing in cutting-edge digital services and proving a high-quality customer experience. With all our digital services now available instantly at the touch of a button, we aim to help customers perform their daily activities in a seamless and cyber-secure way.

Stay connected with Leonardo Helicopters' digital services 24/7.

DOWNLOAD HELICONNECT
AND ENHANCE YOUR DIGITAL
JOURNEY WITH US!



VERTICAL FLIGHT SOCIETY AWARD WINNERS



We are committed to being at the forefront of emerging technologies in vertical flight and to supporting our customers in ever more innovative ways. We were delighted therefore to be among the award winners at the Vertical Flight Society's 78th Annual Forum & Technology Display, which was held from May 10th to 12th in Fort Worth, Texas. Focusing on the future of vertical flight, the conference brought together leaders from the military, government agencies and industry for three days of presentations and discussions that included more than 200 technical papers on vertical flight technology.

As well as being one of the sponsors, we had a strong presence throughout the event and the Leonardo team made several technical presentations. The quality of our submissions was recognised with accolades that included two awards for 'best papers'.

Underlining the continued efforts we are making to harness advanced technology and enhance customer support, Nicholas Flynn and Titos Gosalvez from our US team in Philadelphia (AWPC), co-authored the best paper for the Product Support Technology category. It was titled 'Scheduled Maintenance Program Development for the Leonardo AW609 Tiltrotor via the Maintenance Review Board Process Utilizing MSG-3'.

Tanmay Mathur (AWPC) also co-authored the best paper in the Propulsion category titled 'Dynamic Load Analysis of Motion Converter Ball Bearings in a Pericyclic Transmission'. A ceremony was held June 29, 2022, for AWPC award winners in Philadelphia with AWPC CEO Clyde Woltman.

We are investing to constantly improve the performance of our helicopters and to increase the use of digital modelling. This was evidenced in further recognition for Federico Pellegrino and Alberto Trezzini who co-authored the Lichten runner-up paper titled 'High Fidelity Modelling of Actuation Systems for Nonlinear Aeroservoelastic Analysis of Tiltrotor'.

Meanwhile, Michele Zilletti and Ermanno Fosco co-authored the best overall paper from the 2021 European Rotorcraft Forum – which was invited to be presented at VFS Forum 78 – titled 'Damper Model Identification Using Hybrid Physical and Machine Learning Based Approach'.

We were honoured to take part in the Forum 78 event and to demonstrate the significant contribution we are making, on behalf of customers, to vertical flight technology on an international stage.

MITHOS AND CNSAS: A SHARED GOAL OF SAVING LIVES



How can existing technologies be enhanced to support life-saving helicopter rescues? And what changes are needed to operations and training to make missions safer and more efficient? These are the main themes behind a collaboration agreement that we have signed with the Italian National Alpine and Speleological Rescue Corps (CNSAS).

The partnership will focus both on constantly improving the mission capabilities of our helicopters as well as on strengthening the support and training available to healthcare and emergency workers.

Instructors from the National Technical School of Alpine and Speleological Rescue joined us at the Leonardo Helicopters Training Academy located in Sesto Calende recently to test our latest cutting-edge training device called MITHOS (Modular Interactive Trainer for Helicopter OperatorS).

The MITHOS training device has been developed to offer students realistic, effective, fully immersive, and eco-friendly operational training for winching / hoist operations during rescue and offshore/wind farm support missions. Using state-of-the-art augmented reality to reproduce the cabin environment, MITHOS offers hoist operators, rescuers, pilots and medics an interactive operational training experience for any type of rescue scenario and in all-weather conditions, enhancing safety, quality, efficiency and mission effectiveness.

Instructors from the National Technical School of Alpine and Speleological Rescue commented: “It is extremely important to test winch techniques and manoeuvres in a protected and isolated context compared to the problems of a natural environment.

“In this way we can concentrate on every single gesture, on every detail, also experimenting with solutions and ideas that can be subsequently adopted, if they prove to be successful. With the new simulators adopted by the Leonardo Helicopters Training Academy we have dealt with specific areas of an activity that in real operations represents perhaps the most delicate moment of any rescue: when the helicopter, the pilots, and the Alpine Rescue technicians have to act in unison”

Paolo Petrosso, Vice President Simulation & Training Leonardo Helicopters, added: “The approach phase in rescue missions and the recovery of casualties is always delicate. We have developed this environment capable of combining physical elements and virtual reality to ensure, through training, the highest degree of effectiveness in the execution of the mission with the highest level of safety and sustainability.

“Thanks to the value of collaboration with partners such as the National Alpine and Speleological Rescue Corps, we aim to incrementally make new improvements in software and procedures to ensure maximum realism and adaptation to the specific needs of operators.”

AWHERO SUCCESSFULLY FLIGHT TESTS CUTTING-EDGE MARITIME SENSOR SUITE

Uncrewed Air Systems (UAS) are delivering increasingly vital capability for maritime intelligence gathering missions, supporting the operations of navies and coastguards worldwide. Leonardo is at the forefront of rotary UAS development and AWHERO—our 200kg-class rotary UAS—has successfully completed in-flight testing of its radar-based enhanced maritime surveillance sensor suite.

The high-end Intelligence Surveillance and Reconnaissance (ISR) multi-sensor suite comprises the Leonardo Gabbiano TS20 Ultra-Light maritime radar, an 8-inch Electro-Optical/Infrared (EO/IR), and Automatic Identification System (AIS) transceiver.

The Gabbiano radar provides all-weather/day and night surveillance in conditions where automatic search and detection optical systems face limitations such as in haze, fog or rain. To optimise maritime capability, Gabbiano Ultra-Light operates in X-band, which is less sensitive to weather phenomena compared with Ku-band radar systems.

The AWHERO equipped with the Gabbiano radar is the most effective embarked UAS to reliably provide the host vessel with persistent surveillance capability and a complete maritime picture. It ensures a coverage area more than four-times greater than other UAS of the same weight category equipped with optical sensors.

In October 2021, AWHERO achieved the world's first military certification in its weight category, paving the way for further development and integration. The platform's first flight took place in December 2018.

Since 2019, AWHERO has been conducting maritime surveillance capability demonstrations on ships as part of the OCEAN2020 initiative—the European Defence Fund strategic research programme for naval surveillance technology and maritime safety. The programme brings together 43 organisations from across Europe, led by Leonardo.



AGUSTA INNOVATIONS FOR VIP CUSTOMERS ON SHOW AT EBACE

EBACE – the European Business Aviation Convention and Exhibition – returned to Geneva in May and provided the ideal platform for us to update the market on our exciting plans for the VIP/corporate helicopter sector. It was also an opportunity at a major aviation exhibition to introduce the new Agusta brand and its range of dedicated services.

The Agusta brand updates the distinctive traits that are at the heart of the iconic Agusta name, combining heritage and innovation to deliver cutting-edge products and services dedicated to customers in the VIP/corporate market.

The first example was the unveiling of Casa Agusta, a state-of-the-art new rotorcraft terminal concept, developed in partnership with Falcon Aviation Services and displayed for the first time in Dubai at the end of 2021. Also in Dubai, we presented the ground-breaking AW609 TiltRotor, a solution that promises to transform the world of rotary-wing transport, connecting urban centres and bringing private airport transport services to cities.

We used EBACE to explain more about several new offerings for VIP/corporate customers including Interior Moods cabin layouts, a new integrated maintenance service plan and a tailored Agusta section within the Leonardo Helicopter Customer Portal.

The Interior Moods concept initially focuses on the AW169, AW139 and AW189 helicopter types and aims to give customers the flexibility to create their own ideal ‘habitat’ on board through an interior design that best matches their tastes. The Interior Moods reflect the contrasting ambience

of three world-renowned cities – Florence, London and New York – with customers having the freedom to select interior layouts based on stylish colours, materials, seating configurations, and on-board options.

Meanwhile, the new AGUSTAforYOU service plan, developed specifically for corporate operators, aims to enhance aircraft availability, reduce inventory costs and optimise expenses. It covers both scheduled and unscheduled maintenance of airframe/avionics components and other items. Types initially supported include the AW109 GrandNew, AW169 and AW139, with plans to extend the initiative to other platforms in future.

VIP operators will also be able to access a dedicated area on the Leonardo Helicopter Customer Portal where they can verify the progress and status of their helicopter’s manufacture and testing and view images of these activities.

These innovations – with more that we have planned – are aimed at delivering a high-quality, 360o experience that sets Agusta apart and meets the exclusive and individual requirements of VIP/corporate customers. Stay tuned for more Agusta updates!



NEW VIP/CORPORATE HELICOPTER ORDERS UNVEILED AT EBACE



Our VIP/corporate helicopter fleet in Europe is continuing to grow and we were delighted to announce several new orders during EBACE 2022 held in Geneva. The orders, totalling six helicopters, comprised three AW109 GrandNew, one AW109 Trekker and two AW139s, and will be delivered to customers in Germany, Italy and the UK in 2022 and 2023.

Official distributor for UK & Ireland Sloane Helicopters ordered three AW109 GrandNew light twins with deliveries due the second half of 2023, adding to the three aircraft of the same type it ordered in March. The contract reinforces our well-established position as the leading manufacturer of multi-engine VIP helicopters in the UK and Ireland.

Our relationship with Sloane Helicopters has gone from strength to strength since the launch of our partnership in 1995 when Sloane became our sole distributor for VIP/corporate helicopters in the UK and Ireland. Jeremy Awenat, Managing Director of Sloane Helicopters, said: "We are very proud to have been Leonardo's UK and Ireland Distributor and Service Centre for the past 27 years, with a close partnership that is further strengthening. Sloane is focused on delivering 12 new aircraft to our customers in the next 18-month period, consolidating Leonardo's position as the leading helicopter manufacturer in the VIP/corporate market."

We also announced at EBACE that one AW109 Trekker in VIP configuration will be delivered to a private operator in Germany by the end of 2022, marking the introduction of this model in the country. The AW139 will also be making its VIP/corporate debut in Germany, with one of the type expected to be delivered to a private operator by early 2023. This follows the success of the AW139 in different applications with German operators.

Meanwhile, another private operator in Italy has placed an order for an AW139, adding to the VIP/corporate fleet in the country which now numbers more than 40 twin-engine helicopters of various types including the AW109 series and the AW169.

A DECADE OF SUCCESS: CELEBRATING 10 YEARS OF THE AW169



On 10th May we celebrated a significant milestone in the history of the AW169 – 10 years since the first prototype of the light intermediate twin-engine helicopter took to the skies for the first time at our Cascina Costa site in Italy. On that date in 2012, pilots Giuseppe Lo Coco and Giuseppe Afruni were joined on board by flight test engineers Massimo Longo and Stefano Rognoni for the inaugural flight of the AW169, which marked the start of a new era for the company. The AW169 was the first all-new product in the light intermediate category for almost 30 years and it enabled us to expand our product range and enter a new market segment.

Captain Afruni recalls his impressions of that first flight: “Flying a helicopter designed and built from scratch for the first time is an indescribable feeling from every perspective: personal, professional and business.

“When the wheels leave the ground for the first time, a dream on which hundreds of engineers, technicians and pilots have worked for years comes true. An enormous sense of satisfaction; the final act of an incredible job performed at the desk, and sometimes in the shadows, by a large team of extremely qualified and competent technicians.

“Flying the AW169 for the first time was hugely satisfying not only because it was the last step in a long and complex journey but also because it made us all aware that the moment was additionally the real beginning of a new adventure.”

Following the addition of three more prototypes, the AW169 achieved EASA certification in July 2015 and quickly redefined the light intermediate segment. Designed with

maximum versatility in mind, the helicopter delivered the highest performance and capability levels and quickly established a strong presence with civil, parapublic and defence operators, many of which also valued the high levels of customisation available.

The newest and lightest member of the AWFAMILY of helicopters which also comprises the AW139 and AW189, the AW169 provides advantages to operators of mixed fleets in terms of commonality, efficiency and effectiveness. It also enables users to benefit from the cost of a light helicopter with higher category performance, payload and cabin space.

From the outset, the AW169 also introduced a host of innovative features including a touchscreen-capable display in the cockpit, Auxiliary Power Unit (APU) mode providing electrical and hydraulic power without the rotors turning, and all-electric retractable landing gear.

The AW169’s introduction has strengthened our competitiveness in the global helicopter market, expanding our presence in key applications such as Emergency Medical Services (EMS), law enforcement, disaster relief, and firefighting. It has also provided another option for shorter range operations in the energy sector and opened up new opportunities for us to support the growing market in offshore wind farm operations.

Meanwhile, the helicopter’s dual-use design has allowed it to meet a wide range of government, homeland security and defence requirements for missions including surveillance, troop transport, combat operations, training, and Medevac. We are proud to be part of the AW169’s first decade and look forward to celebrating many more milestones in future!

A LOCAL PARTNER: OUR PRESENCE AT SECURITY AND POLICING 2022

Counter-terrorism and intelligence, cyber security, the protection of Critical National Infrastructure, and border security were among the themes of this year's Security and Policing Event in the UK, which was hosted by the Home Office's Joint Security and Resilience Centre.

The live event took place in March at the Farnborough International Exhibition and Conference Centre and marked the 40th anniversary of the UK Government's global security event. We were delighted to have the opportunity to highlight the key role that Leonardo Helicopters' manned and unmanned rotary-wing platforms play, alongside our missions systems and sensors, as force multipliers across applications including law enforcement, border protection, and emergency operations.

Helicopters continue to perform a vital role in UK law enforcement operations, and we used Security and Policing to underline that Leonardo Helicopters is a local partner with the latest-generation products to support all future UK policing requirements from service provision through to support.

The Leonardo demo area included an opportunity to visitors to gain hands-on experience of our Mission Management System (MMS) Console Simulator which provides an integrated solution for a wide spectrum of Intelligence, Surveillance and Reconnaissance (ISR) missions across all platforms. The MMS enables operators to integrate mission sensors in support of surveillance, evidence gathering and tactical operations.



During the event, we also hosted numerous delegations and visitors, including the Ministry of the Interior from the Slovak Republic, and representatives from the Belgian Police service.

NEW HEALTH EMERGENCY STUDY CENTRE HONOURS LUCA TONINI

A new Health Emergency Study Centre has been inaugurated at the University of L'Aquila, named in honour of a valued Leonardo Helicopters colleague who passed away prematurely. The Centre bears the name of Luca Tonini, who devoted his professional life to the rotary-wing sector and made numerous innovative contributions in the field of helicopter rescue. In the later years of his career, Luca established a collaboration with the University of L'Aquila, a partnership that is now commemorated in a lasting way.



The new Study Centre, equipped with a wide range of advanced technological solutions to simulate interventions on patients, allows students to deal with critical situations in a controlled environment, perfecting their expertise before working in 'real world' medical situations. It also supports scientific studies into health emergencies which can often arise during helicopter rescue missions.

The work of the centre has strong parallels with the field of aeronautics where training is fundamental to the development of the skills needed to perform safe, effective and efficient operations. Likewise, training in the aeronautical world also makes strong use of state-of-the-art simulation techniques.

Simulation is the heart of the centre, where the interactive approach includes a medical room that reproduces the environment of a real-life emergency room. There is also a control room as well as a digitally-led classroom that enables operations carried out in the medical room to be viewed in real-time.

Prof. Franco Marinangeli, Director of the Institute of Anaesthesia, Intensive Care and Pain Treatment at the University of L'Aquila and founder of the centre, comments: "Luca and I had the dream of building a research and training centre that would bring young students closer to the world of emergencies and Helicopter Emergency Medical Services. Unfortunately, Luca passed away and the project stopped. We took advantage of the pandemic and the slowdown in university activities to give new impetus to the project that we had hypothesised – a facility that has a great cultural value but also a great ethical value. It is a project I am proud of and for which I thank my collaborators, the University of L'Aquila and Leonardo Helicopters."

SHARING SKILLS ON THE LATEST-GENERATION AW149

We are always looking for new ways to collaborate across sites and to share knowledge between teams. The twin-engine multi-role AW149 military helicopter provided the perfect opportunity to do just that when colleagues in Brindisi welcomed their Yeovil counterparts to share expertise on the engineering skills and techniques used to build the AW149.

The AW149 is our latest-generation battlefield helicopter and a candidate to meet the requirements of the UK's New Medium Helicopter (NMH) programme, with plans announced to create an additional assembly line for the helicopter at our Yeovil site in the UK.

We have an existing AW149 structure manufacturing capability at our Centre of Excellence for Aerostructures in Brindisi, which serves current in-service customers. The platform is currently assembled in Vergiate.

A group of highly qualified specialist engineers, some of whom have benefited from Leonardo's apprentice and trainee schemes, travelled from the UK to southern Italy for the training sessions. They included former apprentice Alex Weymouth, now a mechanical fitter on the AW101 Merlin Mid-Life Sustainment Programme, who commented: "I was watching and learning new techniques on how to build the

aircraft. As a modern, mostly composite aircraft, the skills and techniques differ slightly to the AW101. I'm excited to possibly work on the AW149 more in the future and hopefully at the Yeovil site."

Meanwhile, Matt Walters, a former apprentice and mechanical fitter, is well accustomed to working on in-service UK MoD aircraft. His current job involves stripping and rebuilding aircraft, modifying the structure as required, and systems testing. These high-level engineering skills would complement and transfer to the AW149 if Leonardo is successful with the NMH campaign. He said: "The AW149 is a high-tech, military aircraft and I am excited to be involved in the engineering behind it. Working on a new platform is great for my progression as an aircraft mechanical fitter, and allows me to broaden my knowledge and skills."

Stuart Redman, who has been with Leonardo in Yeovil for almost 25 years, also spent time in Brindisi and was able to develop his expertise further on the AW149, including the approach to certain modifications on the aircraft.

He noted that if Leonardo were to be successful on the AW149 NMH campaign, "the aircraft could bring work into the company for years to come. It would mean a good progression for myself to work on a different platform".



IMH CONFERENCE SETS THE AGENDA FOR FUTURE MILITARY ROTORCRAFT



'Delivering the next generation of rotorcraft' was the theme of the 16th annual International Military Helicopter conference which took place in London in February. We were pleased to participate in the event to showcase Leonardo's current and future capabilities in the military rotorcraft sphere.

The three-day event had a strong emphasis on future platforms, technology and weapons, bringing together more than 300 delegates and speakers from Asia, Europe and the United States.

We used IMH to highlight our broad product range, including both crewed and uncrewed platforms. This included the capabilities of the AWHEREO Rotary UAS – the only RUAS in the 200kg class to achieve Military Type Certification. We also presented two particular military case studies featuring the AW149 as an exemplar of the multi-role/medium-lift helicopter and the AW249 as the new combat attack helicopter.

Some recurring themes emerged, particularly in terms of battlefield/land operations. These included the importance of improved reliability and reduced lifecycle costs; ease of maintenance and increased availability; and reduction and modularity of the supply chain. The discussions also highlighted the need for increased range, speed and payload as well as improved survivability.

It was clear that most military organisations are aiming to streamline their fleets with a single type and fewer aircraft to cover a wider range of capabilities. There was



also discussion about the ability of multi-role helicopters to offer a standard platform upon which to build specific capabilities to meet customer requirements. With smaller fleets in future, high availability levels combined with innovative support and logistics arrangements were considered vital.

The event confirmed the requirement for a 'plug and play' digital backbone and Modular Open Systems Architecture (MOSA) was also high on the agenda. On the support and training side, developments in condition-based maintenance and the use of 'Digital Twins' were also seen as highly relevant for the future.



DUBAI HOSTS WORLD POLICE SUMMIT

The increasingly influential role of Unmanned Aircraft Systems (UAS) in law enforcement was among the key topics at the inaugural World Police Summit (WPS) held in Dubai in March. Hosted by Dubai Police and under the patronage of the Crown Prince of Dubai, the four-day event brought together 10,000 attendees and more than 50 Chiefs of Police from over 70 countries.

The event enabled senior law enforcement professionals to connect with government, policy makers and sector experts to discuss the priorities that will shape the future of policing.

We used our presence at WPS to reinforce the unique capabilities of the AWHEREO Rotary UAS for law enforcement missions. AWHEREO, which is a versatile dual-use platform capable of operating day and night over land and sea, is the only RUAS in its class designed with safety features such as systems redundancy.

We also presented the proven credentials of the twin-engine AW169 for law enforcement missions, emphasising the fact that our portfolio of manned and unmanned rotary-wing platforms can act as force multipliers for policing, border protection and emergency operations.



Among the major topics at the summit were the future of policing and security, police innovation and resilience, command and control, cyber security, and the use of drones/UAS. It was an important opportunity for us to reinforce our commitment to the Middle East region and to understand more about the current and future requirements of law enforcement professionals.

A STRONG PRESENCE AT INDO PACIFIC 2022

Senior naval delegations from around the world attended the Indo Pacific 2022 International Maritime Exposition which was held at the International Convention Centre, in Sydney, Australia in May.



The event, rescheduled from 2021 due to the pandemic, attracted more than 25,000 visitors, and included the participation of the Heads of Navies from Australia, New Zealand, Saudi Arabia, Italy and UK among many others.

We had a strong presence at the exposition, working closely with both Leonardo Australia and Leonardo International to promote the company's capabilities across Helicopters and Electronics on the main Leonardo Australia stand.

We also presented Leonardo Helicopters' products and services via the Department for International Trade in the UK Pavilion alongside UK Defence and Security Exports, involved in government-to-government engagements.

We took the opportunity to engage with numerous operators in the region, including the Royal New Zealand Navy which is considering replacements for the country's fleet of Seasprite maritime helicopters – where we see the AW159 as a strong candidate.

The RNZN was also interested to hear about the capabilities of the AWHEREO Rotary Uncrewed Aircraft System (RUAS) and successes with Crewed/Uncrewed Teaming during the Army Warfighting Experiment 2019 – the British Army's innovative experimentation programme.

AW139 WINS MORE ORDERS FOR EMS/SAR MISSIONS IN AUSTRALIA

Our AW139 fleet in Australia is expanding following an order for three more of the intermediate twin-engine helicopters which will perform Emergency Medical Services/Search and Rescue (EMS/SAR) missions in the country.

The helicopters will be supplied by operator CHC Australia to Western Australia's Emergency Rescue Helicopter Service (ERHS) with delivery in early 2023. The order cements the AW139's position as the leading helicopter model for EMS operations in Australia. Chosen by several operators, the in-country fleet now numbers more than 60 units and the aircraft are also deployed for law enforcement, offshore and government duties.

The new helicopters will support the fleet modernisation plans of ERHS and enhance the organisation's airborne capabilities, carrying out a range of EMS, SAR and inter-hospital patient transport missions from Jandakot and Bunbury Airports.

Built at our Vergiate final assembly line in Italy, the helicopters will enter service in Western Australia later in 2023 following dedicated mission customisation that will take place locally. The state-of-the-art equipment will include four-axis Digital Automatic Flight Control System (DAFCS) autopilot, enhanced with hover mode; the TCASII Traffic Collision Avoidance System; searchlight; camera, wire cutter and rescue hoist. The specialised EMS interior and advanced mission console will be installed in Australia.

The order strengthens our regional collaboration with CHC, which already operates 10 AW139s and two AW189s. CHC's global AW139 fleet recently reached a major operational milestone by surpassing 250,000 flight hours.



Photo: Dietmar Rabich (CHC)

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