

Global Helicopter Service trusts Entrol to manufacture their new Bell 412 FTD Level 3 simulator

Entrol will manufacture the device in 2023, and it will be delivered to their headquarters in Germany in early 2024.

This Bell 412 FTD Level 3 simulator will be equipped with the latest technology Entrol has to offer, and it will increase the training capabilities GHS offers to their trainees.

“Having sold another model of an FTD Level 3 is a big milestone for us. We believe that FTDs will be crucial for the future of the industry, and it is reassuring to know that companies like GHS share this same view with us. We are glad we have closed the deal at European Rotors 2022. It has been a great show for us.” states Nacho Navacerrada, Head of Sales of Entrol.

“This new project will bring a lot of flexibility and synergies to our future training strategy. For our overall pilot’s team we will be able to cover all requirements in terms of training and check flight events including scenario training for our missions in remote environment. Further to this of course we will be able to develop a whole new range of business opportunities within our ATO.” States Dominik Goldfuss, CEO and Owner of Global Helicopter Service.

This simulator will be the sixth Entrol device in Germany, making it the third country with the most Entrol devices after Spain and Italy.

About Global Helicopter Service:

Global Helicopter Service is an EASA approved helicopter company based in Kirchanschöring, Germany. GHS offers numerous services utilizing a flexible fleet of helicopters that includes the robust Bell 412, the well known Sikorsky S76C++ and the sophisticated Airbus H225.

Together with our strong partners we have access to more than 50 aircraft, our operational and geographic flexibility is second to none. GHS pilots and team are counted upon around the world to navigate extremely challenging weather conditions, terrain and high-stakes situations.

Since 2020 Global Helicopter Service is an EASA approved training organization (ATO) offering training services to third parties as well.

About entrol:

Since 2005, **entrol** develops and manufactures helicopter and fixed-wing FNPT and FTD simulators, for flight schools, airlines and operators, in order to improve pilot training, increase security on aircraft operations and reduce operational costs.

Entrol simulators are covered by a comprehensive after-sales services and designed according to CS-FSTD and FAA FTD directives.

Quelle:

Global Helicopter Service Press Release 08 November 2022

Omnia Training

Rheinmetall joins forces with Raytheon UK, Capita, Cervus, and Improbable Defence for the British Army’s CTP

Rheinmetall together with Capita, Cervus, Improbable Defence has joined the Raytheon UK led team Omnia Training. Omnia Training is an industrial team that will be bidding to become the Strategic Training Partner for the British Army's Collective Training Transformation Programme (CTTP).

The CTTP will deliver the Future Collective Training System (FCTS) - a technology-enabled training system that will serve as a surrogate for warfare. It will provide the British Army with the capability to better replicate the complexity of the modern battlefield in training, giving the army the ability to train globally whenever and wherever it needs to. Utilising technologies from synthetic training environments to state-of-the-art data and connectivity solutions, the CTTP will enable the British Army to better prepare soldiers and commanders for operations to ensure the security of the United Kingdom. The CTTP is expected to start in 2025 and valued at £1.2bn (€1.4 bn) over 15 years.

Omnia Training's expertise spans complex programme management, enterprise transformation, collective synthetic training, digital platforms and data exploitation. It will work in collaboration with the British Army to transform collective training and prepare soldiers for future challenging operational scenarios by creating realistic multi-domain environments.

The Raytheon UK led team includes world class training transformation companies that will provide unrivalled expertise to deliver the Strategic Training Partner role for CTTP.

Jeff Lewis, chief executive of Raytheon UK said:

“We are bringing together a team that has collaboration and innovation at its heart. Omnia Training embraces modern training technologies and methodologies that enhances the common training experience and is focused on delivering better training outcomes for the soldier and commander.

“At the heart of our collaborative approach will be the exploitation of data and connectivity across multiple training technologies. This combination will enable us to deliver a truly flexible and cutting-edge training environment and will help prepare the Army for a range of scenarios that have traditionally been difficult to create on a training ground.”

The CTTP's Strategic Training Partner will assume responsibility for the existing Army collective training system and infrastructure to deliver collective training, then work collaboratively with the Army to transform this into a fully integrated, flexible training solution and be responsible for continuously improving new army training capabilities.

Richard Holroyd, managing director of Capita Defence, Fire and Security, said:

“We are incredibly proud of our track record in delivering technology-enabled, transformational training services for our Defence customers, which is already helping the UK's Armed Forces to get better trained people to the frontline, faster.

“Omnia Training brings together an unparalleled team of expert partners with well-established relationships. We're excited to be part of this collaboration and stand ready to deliver transformed collective training for the British Army.”

Alan Roan, managing director of Cervus, said:

“It is refreshing that a small, medium enterprise like Cervus has been asked to be part of this exceptional team and we think that this is exactly what the CTTP customer has been asking

for. We have watched the potential STP partners for several years, through the market engagement process, and have been gently testing their behaviours.

“Raytheon UK stood out as an organisation that always listened and treated us with a level of professional respect so, when they asked us to join the team, we leapt at this opportunity. A truly collaborative environment has been created within Omnia Training, where each team member can excel on what they do best and, for Cervus, this means providing soldiers with the game-changing exploitation of their training data”.

Joe Robinson, CEO at Improbable Defence, said:

“Improbable Defence is delighted to be Omnia Training's strategic synthetic integrator and proud to be among team members with deep experience in transforming defence capability and superb reputations for collaboration. With a mindset for innovation, we are renowned for our agile responses to user needs and delivering world-leading synthetics. Our track record is one of embracing new technologies and accelerating their provision into the hands of front line users.

As a member of Omnia Training we will bring our expertise in rapid, flexible, low-risk development of a new class of synthetics, that embraces the best of industry, in order to deliver to the British Army the adaptive and ground-breaking collective training system they need to win on the battlefields of the future.”

Richard Streeter, Managing Director, Rheinmetall Electronics UK Ltd. said:

“The Omnia Training team brings together a group of companies with significant depth of expertise and credibility as the Strategic Training Partner for the UK Army to deliver the CTPP programme successfully. This programme represents a huge shift and modernisation to the approach of training the UK Armed Forces. With Rheinmetall’s global footprint and decades of managing complex synthetics design, integration and training capability delivery, we are delighted to be contributing to this fantastic Transformational Programme and addressing the challenges in the CTPP for the future UK Army”

Quelle:

Rheinmetall Press Release 24 November 2022

Boeing Forecasts Air Cargo Traffic to Increase Twofold Over Next 20 Years

- 2022 World Air Cargo Forecast projects global freighter fleet to grow by more than 60% through 2041, supporting e-commerce and supply chains with improved fuel efficiency

- Strong demand for new production and converted freighters

- Asia-Pacific region will take more than a third of deliveries

Boeing [NYSE:BA] is forecasting strong demand for air cargo services through 2041, with traffic doubling and the world's freighter fleet expanding by more than 60%. Boeing today released details from its 2022 World Air Cargo Forecast (WACF), a biennial detailed analysis of evolving industry dynamics.

The 2022 WACF projects that the world's cargo fleet will require nearly 2,800 production and converted freighters for growth and replacement through 2041. With cargo traffic doubling over the forecast period, operators will need to switch to more capable, fuel-efficient and sustainable jets like the 777-8 Freighter to meet demand, according to the Boeing forecast. A third of deliveries will consist of new production freighters, while the remaining two-thirds will be freighter conversions, such as the 737-800 Boeing Converted Freighter (BCF), providing carriers with increased flexibility in existing and emerging markets.

"While the air cargo market is returning to a more normal pace after historic demand in the last two years, structural factors including express network growth, evolving supply chain strategies and new cargo-market entrants are driving sustained freighter demand," said Darren Hulst, Boeing vice president of Commercial Marketing. "In the global transportation network, air freighters will continue to be a critical enabler to move high-value goods, in increased volume across expanding markets."

The 2022 WACF also provides these insights about the cargo market through 2041:

- The Asia-Pacific region will take delivery of nearly 40% of all freighters, including new and converted freighters.
- While dedicated freighters are 8% of the total commercial airplane fleet, they continue to carry more than half of all air cargo, with passenger airplanes carrying the remainder as belly cargo.
- The global freighter fleet will grow by more than 1,300 airplanes to more than 3,600 jets over the next two decades.

The complete 2022 World Air Cargo Forecast can be found at www.boeing.com/wacf.

Quelle:

Boeing Press Release 18 November 2022

PAC-3 Intercepts Target in Successful Test of Lockheed Martin Remote Interceptor Guidance -360 (RIG-360) Capability

For the first time, the U.S. Army used a newly developed Lockheed Martin (NYSE: LMT) communication technology to help a PAC-3 missile intercept a cruise missile target.

During the U.S. Army Integrated Flight Test-2, the prototype missile communication device known as Remote Interceptor Guidance – 360 (RIG-360) successfully communicated with an

in-flight PAC-3 missile to test its data link capabilities. RIG-360 enables a 360-degree PAC-3 engagement capability utilizing target data from various sensors.

"This successful test confirms our RIG-360 prototype as one of the many ways we continue to deliver technology to ensure our customers stay ahead of the full spectrum of 21st century threats," said Scott Arnold, vice president, Integrated Air and Missile Defense, Lockheed Martin Missiles and Fire Control.

Quelle:

Lockheed Martin Press Release 23 November 2022

GA-ASI Teams with SMX to Win ARIES Task Order and Continue AFRICOM Support

General Atomics Aeronautical Systems, Inc. (GA-ASI) and its MQ-9A Remotely Piloted Aircraft will continue to support prime contractor SMX who was recently awarded a task order to provide U.S. Africa Command (AFRICOM) Intelligence Surveillance Reconnaissance (ISR) mission and intelligence analysis operations. GA-ASI is a major subcontractor to SMX for the AFRICOM Reconnaissance Intelligence Exploitation Services (ARIES) task order with an estimated value of \$2.3 billion (inclusive of option periods).

The new award has a seven-year period of performance and will allow SMX and its teaming partners to extend their support through 2029 if all option periods are exercised. The contract will cover continued ISR services for AFRICOM using six MQ-9As produced by GA-ASI, which will make up three lines with two aircraft each. The MQ-9As are supplied by GA-ASI as part of a Company-Owned, Company-Operated (COCO) lease agreement. GA-ASI is the world's leading manufacturer of RPA systems, radars, and electro-optic and related mission systems solutions. SMX is an industry leader in Command, Control, Communications, Computers, Cyber, Intelligence, Surveillance, and Reconnaissance (C5ISR).

ARIES, like its predecessor task order, is a complex, multi-tenant task order providing cutting-edge full lifecycle intelligence solutions through cloud-enabled data insights and decision analytics. ARIES' objective is to improve the United States' ability to observe, orient, decide and act faster and more effectively on the information provided through an innovative system of systems intelligence collection and dissemination eco-system.

"It's exciting to be able to continue to work with SMX and continue to support AFRICOM," said Senior Vice President for MQ-9 Systems, Fred Darlington. "I believe our success in winning the ARIES subcontract is due to the great work the team has provided for the past three years on the continent."

Quelle:

GA-ASI Press Release 14 October 2022

World-leading 3D printing tech widely used on China's newly developed warplane

China's aviation industry has started applying world-leading 3D printing technologies on new-generation warplanes, with 3D printed parts widely used on a newly developed aircraft that made its maiden flight not long ago, said a leading developer.

3D printed parts enjoy advantages including high structural strength, light weight, long service life, low cost and fast manufacturing, experts said on Saturday.

"We are applying 3D printing technologies on aircraft on a large scale at an engineering level, and we are in a world-leading position," Doctor Li Xiaodan, a member of the Luo Yang Youth Commando at Shenyang Aircraft Company's craft research institute, told China Central Television (CCTV) on Saturday.

With the growing demands of new-type warplane development in terms of weight reduction, lifespan extension, cost control and rapid response, previous production approaches reached a ceiling by 2013, and the Luo Yang Youth Commando was established to promote a breakthrough, CCTV reported.

The team is named after Luo Yang, head of production of China's J-15 carrier-based fighter jet who died of a heart attack brought on by overworking 10 years ago on November 25, 2012, after observing the country's first-ever aircraft carrier landing tests that featured the jet.

The Luo Yang Youth Commando made innovations with no reference and completely mastered the 3D printing technologies, also known as additive manufacturing, and it has been using the latest 3D printing equipment to produce components used by China's new-generation warplanes, CCTV reported.

"3D printed parts were widely used on a newly developed aircraft that has made its maiden flight not long ago," CCTV quoted Li as saying.

Compared with conventional manufacturing methods, which need to use rivets or welding to connect parts together, 3D printing builds an integrated part, which enjoys a higher structural strength, which also leads to a longer service life, Song Zhongping, a Chinese military expert and TV commentator, told the Global Times on Saturday.

It also enables manufacturers to use no extra materials, which makes the part lighter, Song said. Another advantage is that 3D printing is fast, and parts can be quickly manufactured, which makes logistics support simpler and less costly, he said.

The Shenyang Aircraft Company, a subsidiary of the state-owned Aviation Industry Corporation of China, is known as the cradle of Chinese fighters, having built main combat warplanes of the Chinese People's Liberation Army (PLA) from the country's first generation J-5 fighter jet to the modern J-15 carrier-based fighter jet and the J-16 multirole fighter jet.

It also developed China's second stealth fighter jet, the FC-31, which is available for export, and is also expected to be further developed into China's next generation carrier-based fighter jet, according to analysts.

3D printing technologies have now been implemented in major aircraft manufacturing factories of the Chinese aviation industry, making China a country to use such technologies on a large scale, the CCTV report said.

This means aircraft manufactured not only by Shenyang Aircraft Company, but also by other Chinese aircraft makers are using 3D printing technologies, observers said.

Quelle:

Global Times China 26 November 2022

CAE grows pilot pipeline and training capacity for Canadian airlines

- *New B777 full-flight simulator set to enter service at the recently expanded CAE Toronto training center*
- *Jazz Approach ab-initio pilot training program accepting candidates*

CAE announced today that it is investing in its Canadian pilot training network to meet the increased demand for pilots with the upcoming deployment of a B777 full-flight simulator (FFS) at its Toronto training centre. The move follows the installation and start of customer training on new B737 MAX and B787 FFSs at the expanded Toronto site.

In addition, to meet the future needs for pilots, CAE and Jazz Aviation are now accepting applications for Jazz Approach, an ab-initio pilot training program that provides cadets a direct pathway to a first officer position at Jazz Aviation.

“We’re adding new simulators and essential training capacity to support the increased demand for pilots from our Canadian airline customers,” said Nick Leontidis, CAE’s Group President, Civil Aviation. “Our partnership with Jazz Aviation on the Jazz Approach cadet program will allow us to create a pipeline of pilots for Jazz and provide a new pathway to a dream career. We look forward to making similar programs available to other Canadian airlines soon,” added Leontidis.

In addition, CAE is installing a Dash-8 Classic FFS at its Montreal training centre to better align with demand for training on this aircraft type in Canada.

CAE operates commercial aviation training centres in Montreal, Toronto and Vancouver, providing leading-edge training to Canada’s airlines.

Quelle:

CAE Press Release 15 November 2022

IAI Brings High-Performance Electronic Intelligence to the Tactical Arena: Unveiling TacSense Compact ESM System

Israel Aerospace Industries (IAI) has unveiled its latest Tactical Electronic Intelligence (ESM) system: TacSense (ELL-8395). TacSense delivers unprecedented ESM performance in a compact form factor with minimal SWaP (size, weight and power).

This allows TacSense to be deployed from a wide range of platforms including tactical ground vehicles and small UAVs. In addition, a manpack configuration enables the system to be easily carried on foot by one person, even in the most difficult terrain. The system's small size and weight also facilitate highly discreet, camouflaged installation at fixed locations.

TacSense is designed to provide high-performance ESM in tactical scenarios, such as ground force maneuvers, discreet operation from fixed installations, and operation from aerial platforms that are limited in their capacity to contain large sensors.

Tactical forces are increasingly exposed to electronic threats in the modern battlefield. Threats include tactical radars in use by commando and guerilla units, ground-based and airborne radars for search and targeting, and other electromagnetic activity such as communications and radar jamming. Therefore, it is imperative to provide forces with the means to detect hostile electromagnetic activity – taking the force from "electronic blindness" to full electronic awareness, and thereby ensuring their safety and mission success.

Capitalizing on IAI-ELTA's heritage in the design and development of advanced radar and ESM technologies, TacSense employs the latest techniques to intercept, classify, track and analyze radars, including the latest Low Probability of Intercept (LPI) emitters. Covering the entire radar frequency spectrum, TacSense provides powerful, comprehensive ESM capabilities, affording operators a real-time understanding of hostile radars that are threatening them with surveillance and targeting. Moreover, it detects forces beyond visual range, and even under deep cover, where radar and EO/IR systems are unable to penetrate.

TacSense has been selected for use by a first customer, and has been contracted for delivery of several tens of operational systems.

Adi Dulberg, VP & General Manager, IAI/ELTA Intelligence, Comms & EW Division, said: "With the ever-increasing proliferation of radar technology in the tactical arena, whether for defensive purposes or targeting, ESM is gaining critical importance in contending with the electronic threats. With TacSense, we are now able to answer the need for a compact and cost-effective ESM system with superb performance. The system can be easily deployed by mobile forces, and its size and cost make it equally effective for protecting high-value fixed installations".

Quelle:

IAI Press Release 03 November 2022

Stolz hoch fünf – MTU-Azubis zählen erneut zu den Besten ihres Fachs

- ***MTU-Azubis gehören zu den besten Absolvent:innen ihrer IHKs und Bundesländer***
- ***Ehrungen für herausragende Leistungen***

Fünf Auszubildende der MTU an den Standorten in München, Hannover und Ludwigsfelde/Berlin-Brandenburg haben es auf die Bestenlisten der jeweiligen Industrie- und Handwerkskammern (IHK) geschafft: Benno Ulbricht (Fluggerätmechaniker, München), Jonas Schlichting (Fluggerätmechaniker, Hannover), Niklas Arndt, Marco Hanck (beide Fluggerätmechaniker, Ludwigsfelde) und Darnell Danneberg (Industriemechaniker, Ludwigsfelde) erzielten in ihrer Abschlussprüfung jeweils mindestens 92 Prozent und damit die Note „Sehr gut“.

„Für unser Unternehmen ist das großartig. Dieses Ergebnis zeigt die hohe Qualität unserer Ausbildung und macht uns sehr stolz auf unsere Azubis“, sagt MTU-Personalleiter Stefan Morgenstern.

Gleich drei Auszubildende des Standorts in Ludwigsfelde gehören in diesem Jahr zu den Besten der IHK Potsdam – das entspricht einem Viertel des Ausbildungsjahrgangs. Dazu gehört auch der Landesbeste in Brandenburg. In München war dieser Ausbildungsjahrgang ebenfalls sehr leistungsstark: Alle Azubis zum Fluggerätmechaniker konnten die Ausbildung aufgrund guter Leistungen verkürzen, einer davon ist Landesbester in Bayern geworden. In Hannover ist ebenfalls ein Fluggerätmechaniker niedersächsischer Landesbester in seinem Beruf geworden. Vier der fünf „Überflieger“ wurden von der MTU unbefristet übernommen, einer hat sich für ein weiterführendes Studium entschieden.

Diese standortübergreifenden Erfolge sind kein Ausnahmefall: Bereits in den Vorjahren gehörten Auszubildende der MTU zu den kammer- und landesbesten Absolvent:innen in der gewerblich-technischen Ausbildung. Die besonderen Leistungen wurden an allen Standorten und in allen IHKs wieder entsprechend gewürdigt. Die IHK Potsdam hatte bereits im Oktober die besten Prüflinge zur Auszeichnungsveranstaltung „Stars der Bildung“ eingeladen. Dabei war die MTU Maintenance Berlin-Brandenburg der einzige Betrieb, der mit gleich drei Auszubildenden vertreten war. Auch in Hannover und München fanden die Ehrungen jeweils in einem festlichen Rahmen statt. Zudem wurden alle Absolvent:innen in München, die ihre Ausbildungszeit wegen guter Leistungen verkürzen konnten, im November mit einer Feier bei der MTU geehrt.

Die herausragenden MTU-Absolventen des Abschlussjahrgangs 2022:

- **Benno Ulbricht**, Fluggerätmechaniker Fachrichtung Triebwerksbau, München: Landesbester Bayern
- **Jonas Schlichting**, Fluggerätmechaniker Fachrichtung Triebwerksbau, Hannover: Landesbester Niedersachsen
- **Niklas Arndt**, Fluggerätmechaniker Fachrichtung Triebwerksbau, Ludwigsfelde: Landesbester Brandenburg und Kammerbester gewerblich-technische Ausbildung, IHK Potsdam
- **Marco Hanck**, Fluggerätmechaniker Fachrichtung Triebwerksbau, und
- **Darnell Danneberg**, Industriemechaniker, beide Ludwigsfelde: Abschlussnote 1, IHK Potsdam

Quelle:

MTU Press Release 18 November 2022

Gulf Air Saves On Fuel With Honeywell Forge Flight Efficiency

Honeywell's advanced data analytics platform has proved to help Gulf Air increase operational efficiencies and lower costs

Honeywell (**NASDAQ: HON**) today announced that Gulf Air, the national airline of the Kingdom of Bahrain, has signed a multiyear renewal of Honeywell Forge software to help increase operational efficiencies and decrease costs associated with several factors, including unnecessary fuel burn. More than 2,700 aircraft worldwide, including Gulf Air's fleet, use Honeywell Forge Flight Efficiency to deliver more profitable and sustainable operations.

Gulf Air utilizes Honeywell Forge Flight Efficiency fleetwide in approximately 36 wide and narrow body Boeing and Airbus aircraft. By implementing the solution across its fleet, the airline has reported it receives reliable, accurate data on fuel burn, which it has used to optimize its fueling strategies, develop and manage more efficient routes, and measure impact on companywide efficiency and sustainability initiatives.

“We are proud that Gulf Air trusts Honeywell Forge Flight Efficiency to optimize the performance of its fleet and increase the sustainability of its operations through our software solution to improve fuel consumption,” said Jason Wissink, vice president of sales, Honeywell Connected Aerospace. “Gulf Air continues to drive innovation by making smart investments in enterprise performance management solutions. Our offering empowers teams like flight ops and flight dispatch to make data-driven decisions for greater efficiency, which can help airlines lower operational costs.”

By consolidating, cleansing and analyzing data from a wide range of sources, Honeywell Forge Flight Efficiency makes it easier for operators to develop, implement and measure initiatives to reduce costs. Honeywell Forge Connected Aerospace provides airline and business aviation operators with a suite of end-to-end connectivity and operational efficiency solutions powered by an all-in-one dashboard, dedicated support and built-in cybersecurity.

Quelle:

Honeywell Press Release 12 September 2022