MRO BUSINESS TODAY

15th June 2024

Rolls-Royce Deutschland and ITP Aero join forces for Wingman Engine Development

The Wingman Engine, a European solution for large remote carriers, utilizes the efficient Advance2 core technology found in commercial and military platforms.

L To R : Alex Zino (Head of Global Network & Director of Business Development and Future Programmes), Jörg Au (Director Engineering , Technology & Safety Civil Aerospace), René Bernstein (VP Defence Germany), Carlos Alzola (Managing Director ITP Aero), Dirk Geisinger (Director Business Aviation), Nils Hilmer (State Secretary at the Federal Ministry of Defence) and Alvaro Santodomingo (Defence Business Unit Executive)

Rolls-Royce Deutschland and ITP Aero have officially entered into a Memorandum of Understanding (MoU) to explore a collaboration aimed at the development, production, and maintenance of a Wingman Engine. This engine is envisioned as an advanced, high-performance solution tailored for large-scale unmanned aerial vehicles.

During the MoU signing ceremony, a prototype of the Wingman Engine concept was revealed, showcasing its power and propulsion capabilities to attendees at the ILA Berlin Airshow. This agreement between Rolls-Royce Deutschland and ITP Aero will foster a German-Spanish approach, leveraging on the extensive partnership between the two companies, which has endured for over a decade.

René Bernstein, Vice President of Defence Germany at Rolls-Royce Deutschland stated, "As discussed at our successful Capital Markets Day, we're continuing to leverage value from our Pearl engine family. The use of market-available technologies with a stable value chain reduces the overall risk and controls the development and product costs of platforms serving our security. In turn, this strengthens the international competitiveness of such a system in the long-term, and building on available advanced technology will enable the industry to move fast to make such complex products market-

ready in uncertain geopolitical times."

Dr. Dirk Geisinger, Chairman of Rolls-Royce Deutschland, and Carlos Alzola, Managing Director of ITP Aero, officially signed the MoU on June 5, 2024. The ceremony was attended by representatives from the Ministries of Defence of both nations, government officials, politicians, and industry leaders. This event celebrated the joint initiative to develop a European power and propulsion solution, highlighting the exceptional engine design and manufacturing capabilities of Germany and Spain.

Alfredo Alonso, Head of Export & New Business Defence at ITP Aero said, "We are excited to continue our long-standing collaboration with Rolls Royce Deutschland for the design, development, manufacture and support of a Wingman Engine featuring high levels of design maturity and competitive operating and maintenance costs. This project represents a unique opportunity to develop a true European state-of-the-art propulsion solution for large remote carriers aimed to support the operations of existing and future systems in contested environments. I am convinced that our cutting-edge technologies and capabilities will significantly benefit this engine's propulsive system, lowering operating and maintenance costs and reducing development time."

The Wingman Engine represents a European solution adept at meeting the development and product cost prerequisites for diverse large remote carrier designs. Leveraging the Advance2 core demonstrator, renowned as the most potent and efficient core engine technology in its category, the engine concept draws upon existing applications powering both commercial and military platforms. As the foundation of the Pearl business jet engine family, the Advance2 core has already demonstrated its exceptional competitiveness and has been chosen to propel five aircraft models across different manufacturers.

This defense application capitalizes on substantial investments made by both companies in civil and dual-use technologies, resulting in a cost-effective European solution ■

IAE AG, FTAI Aviation Sign V2500 Engine MRO Agreement

The agreement includes over 100 restoration visits, enhancing FTAI's V2500 engine fleet with IAE's global support.

FTAI Aviation Ltd. and IAE International Aero Engines AG (IAE) have announced a five-year EngineWise maintenance services agreement for V2500 engines. The agreement includes over 100 full-performance restoration shop visits. IAE is a multinational consortium consisting of Pratt & Whitney, an RTX business, Pratt & Whitney Aero Engines International GmbH, Japanese Aero Engines Corporation, and MTU Aero Engines AG.

Kim Kinsley, president, IAE AG, and vice president, Mature Commercial Engines at Pratt & Whitney, said "FTAI's expansion of V2500 offerings is a testament to the engine's reliability and value to lessors, We are committed to working with FTAI on V2500 engine maintenance to optimize fleet performance for FTAI's customers around the world."

FTAI Aviation specializes in engine leasing, innovating the services provided to operators by offering a range of standalone engines and unique maintenance products to support their fleets. Currently, FTAI owns over 140 V2500 engines and aims to expand its portfolio to 200 by 2025.

Joe Adams, CEO, FTAI Aviation, said "We look forward to collaborating with IAE to restore these engines together, we are committed to the V2500 engine and see tremendous demand for it in the next decade. Teaming up with IAE allows us to extend the life of the V2500 fleet, while providing flexible engine power to our airline customers."

The V2500 engine is the most fuel-efficient propulsion system in its class, providing up to a 3% advantage in fuel burn and emissions compared to previous generation engines. It is a versatile engine, powering commercial, cargo, and military aircraft, with a proven track record of reliable and efficient performance.

Pratt & Whitney's EngineWise service portfolio offers engine operators a range of aftermarket services designed to maximize engine performance and enhance fleet availability.

FTAI owns and maintains commercial jet engines, with a focus on those for the A320ceo fleet. FTAI's proprietary product portfolio offers cost savings and flexibility to its airline, lessor, and maintenance, repair, and operations customers. Additionally, FTAI owns and leases jet aircraft, facilitating the acquisition of engines at competitive prices ■


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Safran to Provide Engines for German Federal Police Helicopters

The Bundespolizei's order of 38 Airbus H225 helicopters reaffirms its trust in Makila 2A engines, securing Safran's exclusive engine supply.

Safran Helicopter Engines will power the German Federal Police's (Bundespolizei) new fleet of Airbus H225 helicopters, following the announcement. The 38 helicopters will be equipped with Makila 2A engines, reaffirming the Bundespolizei's trust in the proven reliability and performance of these engines. Currently, the German Federal Police's fleet includes Makila-powered AS332 and H215 helicopters. This contract ensures that the entire helicopter fleet remains powered by Safran, continuing its longstanding partnership with the Bundespolizei.

Cédric Goubet, Safran Helicopter Engines CEO, said "We are proud that the German Federal Police have chosen the Airbus H225 as their new transport helicopter. In choosing this helicopter with its world-renowned performance, they are also placing their trust in the Makila 2A engine, which is particularly well suited to operators carrying out demanding missions in challenging environments. The Bundespolizei will also benefit from highest-standard support via our Safran Helicopter Engines Germany facility in Hamburg."

Safran Helicopter Engines Germany, based in Hamburg, supports 300 helicopter operators across Germany, Northern Europe, Eastern Europe, and Central Asia, managing a fleet of 2,000 engines. In Germany, Safran powers the majority of police and military helicopters.

Safran is a global high-technology group engaged in the aviation (propulsion, equipment, and interiors), defense, and space sectors. The company's mission is to enhance safety and sustainability, striving to make air transport more environmentally friendly, comfortable, and accessible. With a workforce of 92,000 employees and sales reaching €23.2 billion in 2023, Safran holds leading positions, either independently or in partnership, in its core markets ■

Rolls-Royce Broadens Business Aviation Services for Expanding CorporateCare Clients

Rolls-Royce strengthens its European business aviation services infrastructure by including Airline Support Baltic in its global network of Authorized Service Centers (ASC).

Increasing market share and aftermarket growth in the business aviation sector is strategically significant for Rolls-Royce, as confirmed during last year's Capital Markets Day. Authorized Service Centers constitute a vital component of the Rolls-Royce services portfolio, enhancing the existing global service capabilities to cater to the expanding CorporateCare customer base. The recent inclusion of Airline Support Baltic (ASB) in Riga, Latvia, into the ASC network will provide support for the Rolls-Royce AE3007A engine fleet, utilized in Embraer's Legacy 600 and Legacy 650 business jets.

With over 85 Authorized Service Centers established in collaboration with key maintenance providers, Rolls-Royce provides its business aviation customers with the most extensive global service network in the industry. This robust infrastructure of ASCs is further supported by a dedicated 24/7 Business Aviation Aircraft Availability Center, On-Wing Services Specialists strategically stationed in the USA, Europe, Middle East, and Asia, as well as several spare parts and lease engine storage facilities worldwide.

"Over the coming years we are seeing a significant growth of the installed Rolls-Royce powered business aviation fleet and its flying hours. By collaborating with the world's most experienced maintenance providers we ensure we are ready for this increase and continue to deliver industry leading service levels for our CorporateCare and CorporateCare Enhanced customers. Airline Support Baltic has proved to be a flexible and competitive partner in Europe and the Middle East and I'm proudly welcoming them as our latest Authorised Service Centers partner." saidRobert Werner, Vice President Aircraft Availability – Business Aviation, Rolls-Royce.

Facts and figures pertaining to the Rolls-Royce Business Aviation Services network

- A dedicated, state-of-the-art 24/7 Business Aviation Aircraft Availability Center ensures an average Aircraft On Ground (AOG) return-to-service time of less than 24 hours and achieves a worldwide Averted Missed Trip rate exceeding 99%.
- The largest and most powerful Authorized Service Center network in business aviation with more than 85 industry recognized Service Center locations.
- Faster response times with 10 strategically placed parts storage locations around the world (latest addition is a new 10,000 ft2 AOG support storage location in New York to support the US east coast).
- More than 75 On-Wing Services technicians dedicated to Business Aviation.
- Over 250 engine and nacelle lease assets.
- 25 dedicated customer managers located around the world.
- CorporateCare Enhanced offers full coverage of both the engine and nacelle plus all labor and travel time for the Mobile Repair Team. It is the leading solution for full powerplant care and even covers unlimited corrosion and erosion. Over 50% of the CorporateCare fleet have now upgraded to CorporateCare Enhanced.

Plus all labor and travel time for the Mobile Repair Team. It is the leading solution for full powerplant care and even covers unlimited corrosion and erosion. Over 50% of the CorporateCare fleet have now upgraded to CorporateCare Enhanced.CorporateCare customers enjoy expedited response times and minimized maintenance durations, along with simplified and streamlined administrative processes, regardless of their location or destination ■

Shri Saket Chaturvedi, CEO (MiG Complex) Hindustan Aeronautics Limited In an exclusive interview with MRO Business Today

Q - HAL has set its sight on building an integrated MRO centre in India. How do you plan to achieve this target?
Ans: As it is known that HAL is the largest aviation design, manufacturing and MRO support company for military aircraft in India. Major military platforms are manufactured and supplied by HAL for which we are providing full MRO support. However, MRO capability for civil aircraft is available in the country with only some limited scope. The country is dependent upon the foreign third party MROs for receiving the major maintenance support. HAL has made a vision to make India a Global MRO Hub offering complete range of services to customer airlines for Airframe MRO, Component MRO and other specialized MRO services for which airlines are dependent on foreign MRO companies.

We have carved out a phased plan to establish a credible MRO hub in the country. For achieving goals of our vision, HAL has collaborated with Airbus to establish 6 yearly C Checks facility for Airbus 320 series of aircraft at HAL Nasik. We are targeting to achieve the DGCA and EASA certification for our facilities within next 2-3 years. Subsequently the C Checks facility will be up graded to achieve structure repair and other major MRO requirements of the airlines/customers. The existing vast infrastructure, machineries and technical acumen of HAL will help to build a strong MRO centre capable to provide lower lead time and reduced cost to the customer airlines.

Q - Currently the MRO work done in India is very limited, mostly to airframe maintenance. Do you plan to eventually branch out your capabilities to component and engine overhaul?
Ans: This issue provides a good insight into the existing MRO conditions in the country. Today airlines in India are able to receive or perform only the airframe maintenance for their fleet. More than 80% of the major maintenance work like structure repair, MRO of components, landing gears and Engines is being performed outside the country. So as part of our vision to provide full range of maintenance services to airlines we eventually seek to establish the remaining MRO capabilities like Landing Gears MRO, component MROs (for Hydraulic, pneumatic & fuel, and Electrical components), and Engine MRO. We are targeting these areas with a time frame of 4-5

years. We will leverage our existing experience, expertise and infrastructure of MRO of components and Engines for defence fleet. As MRO of components cannot be done without the support of OEMs, we have also initiated steps to collaborate with the OEMs of components for Civil fleet.

Q - MRO industry is facing a major problem of lack of spares and supply chain issues. Your views.
Ans: Supply chain issues are some of the important and crucial reasons for driving high TAT and high cost of availability for making a civil aircraft serviceable. With the ongoing global scenario post corona pandemic, the demand has substantially outpaced the supply. The demand supply gap has further enhanced by component obsolescence, non-availability of regional repair centers and so on. Component piece parts and Engine Hot Section are some of the domains where supply chain issues are more prominent.

So today an aircraft can remain grounded for a spare part or component for a period of more than 3-4 weeks. And I think this is not acceptable for the aviation ecosystem of our country. If we were having repair/manufacturing facility for that component/part in India we could have easily avoided such a situation. Major operators and MROs delve on keeping high inventory for spares and rotables, which is a very high cost option. That is where we believe we need a MRO hub or centre in India which will have the full capability in terms of providing spares and serviceable units/components with a minimum lead time to the airlines. That is where HAL Nasik will play a vital role in solving the supply chain issues and achieving lower TAT and cost by creating pool of parts and local repair service center.

Q - Why, according to you is Indian MRO sector still struggling? How will HAL help in boosting the overall MRO ecosystem of India.
Ans: Earlier, there existed many policy based barriers due to which the MROs faced quite a many challenges. However policy actions initiated by Govt of India towards making India a global MRO hub have enabled creation of a facilitative arrangement. According to me, the MRO sector is still struggling because of the following reasons:

a. Non-availability of a robust supply chain for spares and parts.
b. Non-sharing of Technology by OEMs for component MRO.
c. Capital-intensive nature of component MRO coupled with non-availability of economies of scales.

HAL as you know is an organization, which strives to achieve self-reliance in whatever product it makes. HAL has developed a considerable and credible defence ecosystem in the country. We desire to follow the same philosophy in the Civil Aviation as well. We wish to catalyze the civil MRO ecosystem in the country so that it becomes capable of supporting the airlines on its own. We have offered our defence infrastructure and machineries for cross utilization by civil aerospace so that economies of scales can be obtained at lower cost and in quick time.

Q - Can you explain how HAL's civil MRO vision is in sync with India's Atmanirbhar Bharat vision?
Ans: The convergence Mission by Ministry of Civil Aviation (MoCA) aims to cross-utilize the assets of Defence and Civil aviation Industries thereby achieving economies of scale and quick turnaround time for establishing new MRO capabilities by utilizing the shareable resources and infrastructure of both civil and defence. The convergence Mission is in sync with the AatmaNirbhar Bharat Abhiyan which seeks to make India a Global MRO hub enabling self-reliance in MRO.

HAL is playing an important role in realizing the goals of the convergence and establishing an MRO hub at HAL Nasik. We have offered our infrastructure like machinery, runway, Hangars, skilled manpower etc for cross utilization by the third party MROs. In the process renowned third-party MROs have collaborated with us to establish the capabilities in the country. This is resulting into a quick transition of our infrastructure for use by MRO players. Regulatory approvals have been obtained at a faster pace as already various infrastructure of defence is available which could be quickly transformed to cater for civil aviation work.

Q - Besides the Nasik facility are you planning to set up MRO facilities in other parts of India? Can you very briefly share the expansion plan?
Ans: Our Nasik facility is a state of art facility, which is providing a comprehensive support to its defence customers for more than 75 years. With its modern infrastructure, hangars, machineries and technical expertise coupled with its well-connected airport, it has the great potential to become a MRO hub in the country. Based on possibilities and business opportunities it can be expanded to other locations as well.

Q - Your view of the current civil MRO scenario in India.
Ans: The Civil Aviation growth rate in India is 7-8% per year as compared to worldwide growth rate of 4-5%. There

is a considerable deficit in number of passenger aircraft that India currently has to that it requires. As evident from the recent orders placed by various airlines, India will be having a huge number of fleet in next 4-5 years. Currently Indian MROs are performing only 15-20% of the work and rest of the work is going outside the country as the facilities for the work is not available in the country. There are 3-4 key players who are performing around 70% of the workload which is largely for Airframe Maintenance.

There exist strong entry barriers for component and Engine MRO which includes (i) reluctance of OEMs to share technology transfer and (ii) capital intensive nature of the sector.

The growth of the sector is strongly poised and hence there is a need for establishment of appropriate MRO facilities in the country at a greater pace so that dependencies on foreign players are reduced to minimum.

Q - What according to you, can the Indian government and aviation stakeholders do to uplift the MRO sector in India?

Ans: I think, there are three major stakeholders which are having a greater role to uplift the MRO sector in India viz. (i) Airlines (ii) OEMs and (iii) Govt of India.

Of recent Govt of India has taken concrete policy actions which have made the environment very conducive for the MROs. Many policies are under consideration, which will further boost the MRO ecosystem of the country.

Airlines are having a big role in developing the MRO in the country. They should insist to the aircraft OEMs to establish 70-80% the MRO facility within the country for their upcoming fleet. Accordingly, efforts should be made to include the provisions in the aircraft contract. Technology transfer for repair/MRO of key components should also be sought from the OEMs.

OEMs also need to come forward to establish their authorized repair centers in India in collaboration with existing MRO players so that facilities can be established at a faster pace.

Another important aspect which is sought by various MRO organizations for long is that the regulatory agency DGCA to strike a parallel arrangement with EASA/FAA so that DGCA certification is also honored by these global agencies. This will reduce long cycle time involved in taking EASA/FAA approval for existing DGCA certified MRO capabilities and boost the growth of MRO sector in India.

Q - What advice will you give to young AME aspirants?

Ans: Aircraft and Human safety are the prominent priorities in the aviation sector. As an aircraft engineer we should strive to inculcate the safety in our professional approach. Aviation safety heavily relies on maintenance work that AME performs and when it is not correctly done it may lead to significant accidents or incidents. Hence it is important for the young AME to learn the best and safest maintenance practices. They should abreast themselves consistently with the latest manuals/bulletins, global standards, and guidelines.

Following of ethical practices and code of conduct are becoming very important for the young generation to enable bright and sustained future. Their ethical behavior should result from their personal commitment to engage in ethical practices ■

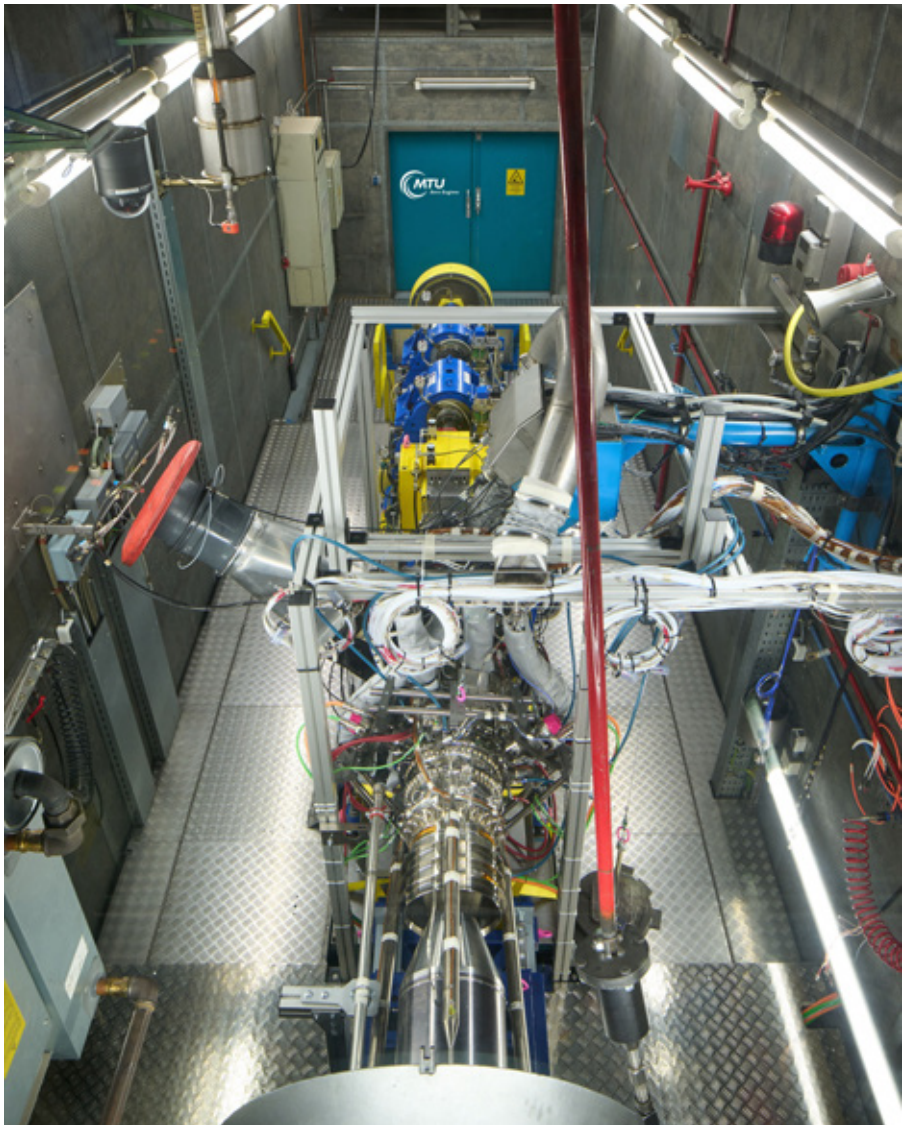
MTU Aero Engines progresses on efficient turbine and compressor technologies

MTU Aero Engines, working alongside strategic partners GKN Aerospace Sweden and the German Aerospace Center has focused on enhancing the LPT and HPC components to influence the next generation of geared turbofan engines.

MTU Aero Engines, Germany's leading engine manufacturer, has unveiled significant advancements through its participation in the Clean Sky 2 research program. Working alongside strategic partners GKN Aerospace Sweden and the German Aerospace Center (DLR – Deutsches Zentrum für Luft- und Raumfahrt), MTU has focused on enhancing the low-pressure turbine (LPT) and high-pressure compressor (HPC) components. These developments are expected to influence the next generation of geared turbofan engines, marking a substantial leap towards cleaner and more efficient aviation.

"We focused on how our components work with their neighboring modules, and we especially want to optimize their interactions. In our collaboration with GKN and the DLR, we perfectly integrated the strengths of each partner: GKN's competence with large structural components and DLR's experience in the area of testing, as well as MTU's expertise with compressors, turbines, and systems," said Dr. Claus Riegler, Senior Vice President Technology & Engineering Advanced Programs, MTU Aero Engines in Munich.

Specifically, MTU examined the inlet and exit case for



the LPT, and the low-pressure compressor and inter-compressor duct (ICD) for the HPC. The overarching aim was to improve aerodynamics and develop new, lightweight, and temperature-resistant materials alongside innovative manufacturing processes.

The Clean Sky 2 technology program, initiated in 2014 under the EU Framework Program Horizon 2020, is nearing its conclusion this year. Its mission: to make aviation greener and more efficient. Dr. Stefan Weber, Senior Vice President Engineering and Technology at MTU, expressed satisfaction with their contributions.

"What we have achieved shows that we can significantly support the initiative and the EU's efforts toward clean aviation, as well as the lasting success of the European aviation industry," concludes Dr. Stefan Weber, Senior Vice President Engineering and Technology, the Munich engine manufacturer. "We were the lead party," he further added.

EMVAL Engine Demonstrator

To validate the LPT technologies, MTU developed the EMVAL (Engine Material Validation) engine demonstrator. Built and tested in Munich, this test vehicle was an MTR390 engine, typically used in Tiger helicopters and provided to MTU by the German Army. Integrating the new technologies required redesigning, building, and attaching a complete power turbine to the core engine.

The comprehensive testing program yielded impressive results. The analysis of material behavior under engine conditions demonstrated the readiness of these technologies for operational use. The focus was on optimizing innovative, highly heat-resistant materials, such as fiber-composite ceramics, and advancing manufacturing processes for heat-resistant disc materials and additively manufactured components. GKN Aerospace contributed the turbine exhaust case for this project, showcasing their collaborative strength.

Two-Shaft Compressor Rig

Concurrently, the two-shaft compressor rig was developed to validate new compressor technologies, constructed at DLR in Cologne. GKN Aerospace played a crucial role here as well, designing and manufacturing the low-pressure compressor and the inter-compressor duct.

This expanded compressor rig comprises a low-pressure compressor, inter-compressor duct, and HPC. A critical step was measuring flow conditions in short, steep inter-compressor ducts. To facilitate this, a wind canal rig, known as the ICD rig, was built at DLR in Cologne, the MTU Center of Competence (CoC) for engine systems. Various ICD configurations were tested to ensure comprehensive validation.

The final test series for the two-shaft compressor rig is now underway, with results expected by the end of the year. The focus is on validating the designs of individual components and the performance of the entire compressor system. These advancements promise to significantly enhance the efficiency and environmental sustainability of future aviation technologies.

Looking Ahead

MTU Aero Engines' progress within the Clean Sky 2 program highlights the company's commitment to innovation and sustainability. By refining critical engine components and collaborating with esteemed partners, MTU is driving the aviation industry towards a greener future. The outcomes of these initiatives not only align with the EU's environmental goals but also reinforce MTU's position as a leader in aerospace engineering.

As the aviation industry continues to evolve, the integration of these advanced technologies will play a pivotal role in shaping more efficient, eco-friendly engines, ensuring a cleaner and more sustainable future for air travel ■

RTX's Collins Aerospace Secures EASA Approval for Pro Line Fusion Retrofits on Cessna Aircraft

EASA Certifies RTX's Pro Line Fusion Retrofits for Enhanced Functionality and Pilot Efficiency on Cessna Citation CJ1+/2+ Aircraft.

RTX's Collins Aerospace received certification approval from the European Aviation Safety Agency (EASA) for Pro Line Fusion retrofits on Cessna Citation CJ1+/2+ aircraft registered in Europe, which can now be upgraded with the advanced functionality of the Collins Aerospace Pro Line Fusion integrated avionics system.

Fusion's modularity and intuitive technology integration will improve pilot workload, providing real-time data, visual clarity, and predictability that simplifies operations during the most critical stages of flight.

As European airspace undergoes modernization, Fusion's suite of technological advancements synergistically will function to facilitate precision approaches, optimize flight trajectories, and guarantee precise positioning, even in geographically isolated regions. These enhancements will empower pilots with the assurance to adeptly navigate through the dynamic and multifaceted landscape of evolving airspace regulations.

Collins Aerospace, a business within RTX, specializes in providing integrated and intelligent solutions tailored for the worldwide aerospace and defense sectors.

Nathan Voight, vice president and general manager of business and Regional Avionics at Collins Aerospace said "Clearing this certification hurdle is a major step forward in providing European CJ customers with a solution that not only enhances their aircraft operations but can also extend the life and functionality of an aircraft, This milestone underscores Collins' commitment to supporting the global network of CJ operators with the flight deck technology that makes operations safer, more efficient and predictable each and every flight."

RTX, formerly known as Raytheon Technologies Corporation, is a multinational conglomerate specializing in aerospace and defense technologies. It operates across various sectors including aerospace, defense, and intelligence, offering a wide range of advanced solutions and services worldwide ■

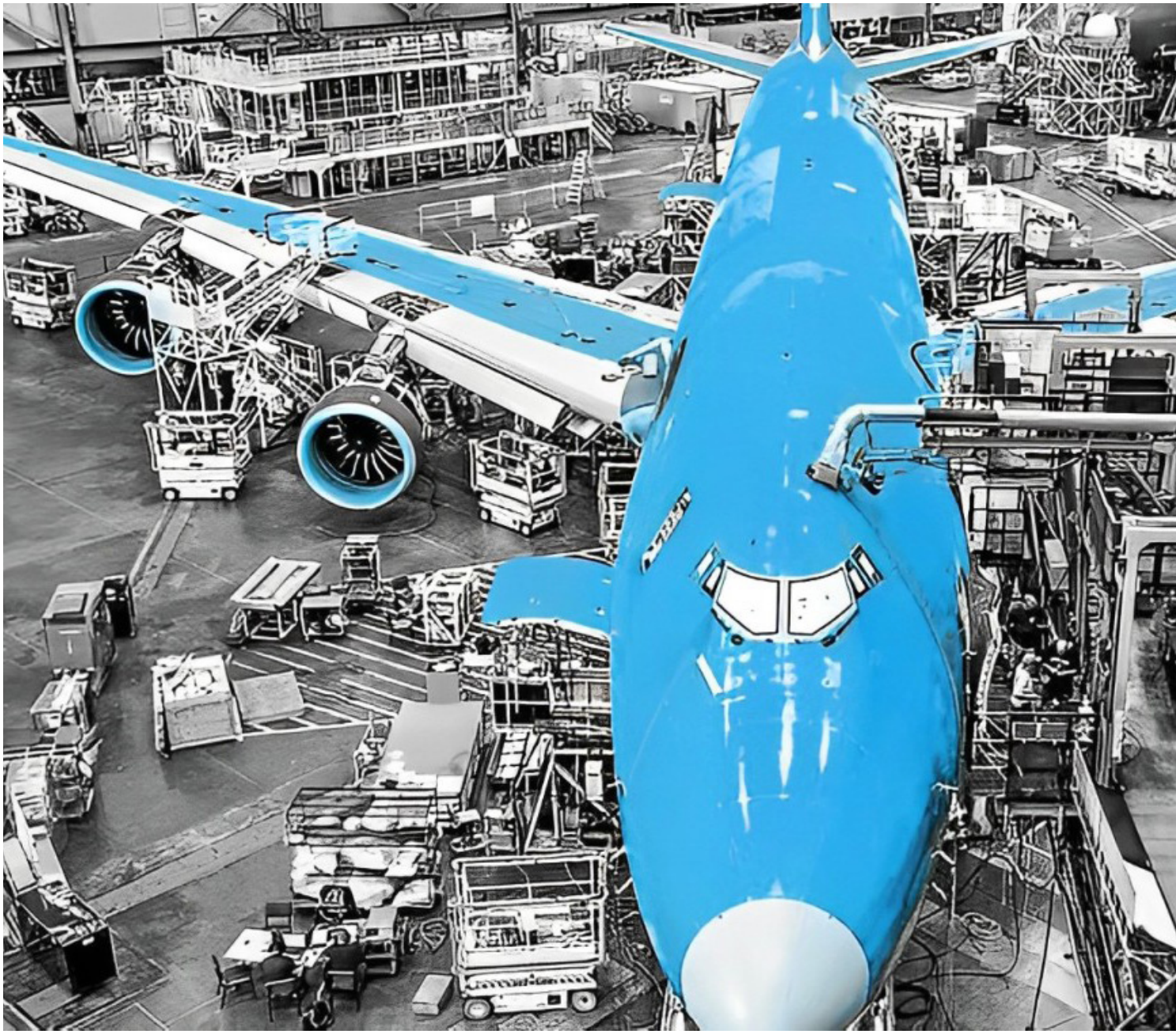


Image Courtesy : atoshipping.com

AEROSPACE LOGISTICS

If MRO services serves as the backbone for the aerospace industry, then a critical piece of this structure is aerospace logistics. With the world reduced to a global village, aerospace logistics needs to be a well-orchestrated effort by multi-faceted, experts and services. In a complex environment that the aerospace industry works in, the need for delivery of man and machine, reaches criticality, every now and then.

Aerospace Logistics involves high-speed global delivery of aerospace parts and systems, accelerating production processes and optimising the supply chain.

Therefore, effective aerospace logistics is a tightly knit operational extension to the businesses of their (aerospace logistics companies) clients across the globe.

It often entails moving large quantities of freight, that come in gigantic aero engines and helicopters, or small sizes like avionics and components and other materials, and must be delivered in a precise, timely, and in a cost-effective manner. This calls for a network

Image Courtesy : Omni logistics

of dependable and trusted network of agents, water-tight contracts with shipping companies that cover air, land, and sea operations, to/ from a vast number of ports, straddling the globe.

The entire range of aerospace logistics solutions is to support aircraft manufacturers, aircraft leasing businesses, commercial airlines, including maintenance, repair, and overhaul services companies.

In the demanding aviation and aerospace industry, the requirements are wide-ranging from crucial AOG (Aircraft -on – Ground) shipments, to charters and couriers, extending to routine sea and road freight. It is truly mind-boggling in the manner of job execution happening at a global level, involving tens and thousands of teams and experts - coordinating to deliver secure and timely services to their clients.

Everyone down the line must be mindful about the criticality of establishing and maintaining superior supply chain solutions, that ensure decreased customs and procedural processing time, and being 24/7 on call for the customer, anywhere across a global network. Service providers must ensure too - inventory reduction, understand what is routine, critical and AOG. Aerospace logistics firms for example can save their client's expenditures and time, significantly, by shipping items required only for an AOG at that moment of requirement.

Airfreight

Air Freight forwarders offer carriage from palletized freight. These could be full container, where the shipment is large for it have its exclusive container, or it is of a size that can be shipped with other smaller parts as what is termed - consolidated container services. Shipments then can be customised by the forwarder that benefits the customer.

Other services that a freight forwarder manage for their clients is preparation

Image Courtesy : Quick Cargo Switzerland

Image Courtesy : aerospacelogisticsgroup.com

and submission of necessary documents, like air waybills, commercial invoices, packing lists, and certificates of origin. Timely submissions are necessary to meet legal and regulatory requirements.

For urgent or time-critical shipments, there is the option of express airfreight services, where shipments are prioritized at the clients' requests and accordingly, shipments occur with the fastest transit times.

On Board Courier Services deliver using air services with the best routing options for safe, sensitive, and secure shipments.

Charters are used when the shipment volume is huge, or a specific size requirement exists, shippers arrange for full charter of consignment – where an entire freighter may be used for mainly an oversized cargo, or some kind of special-handling is required. In such a scenario there is maximum control and security for specific consignments, ensured. Emergency situations like an AOG, critical or perishable items are best suited for such an exclusive shipment.

A part charter on the other hand involves sharing space onboard an aircraft or freighter. This kind of a service offers flexibility and customised offerings for high-volume and/or specialised cargo.

Shippers must make the right choices for their clients in terms of aircraft type, flight schedule and routing of the aircraft. This calls for a high level of expertise and practical knowledge of everything aerospace logistics.

Aerospace logistics at times entail shipment to remote areas, where access is a challenge, or cargo capacity is limited on certain aircraft types. Here charter services come to the rescue. And what is more, the consignment is delivered directly to the destination, without any transshipment!

Image Courtesy : Omni Logistics

Aerospace Supply Chain

Aerospace logistics supply chain consist of a host of services provided by which businesses are supported like manufactures, airlines and operators, leasing companies and MRO providers.

Warehousing

Safe and secure storage of expensive and critical goods require a network of strategically located warehouses throughout the world. The services should have the best-in-class unloading and offloading solutions, whereby businesses are able to upscale distribution and expand delivery capabilities.

Real-time Tracking

Leveraging technology for real time cargo tracking is essential to provide real time visibility for consignments anywhere in the supply chain. A great amount to reliability is provide in this manner.

Aerospace Logistics and Job Creation

With multiple links in aerospace logistics and throughout its supply chain, calls for thousands of workers, technicians, and specialists to deliver such services. Therefore, the types of employment opportunities for aerospace logistics specialists are a plenty, and job market is huge. Some of the industries that are potential employers include consulting, government and military, manufacturing, material handling, software and computer service, telecommunications, and transportation firms, equipment manufacturers and dealers, warehousing, as also wholesale distributors. Basically, any firm special-

ising in moving men and material by air and all those companies that support them for the vast ecosystem of aerospace logistics.

Here is a list, aspirants may consider to be employed as aerospace logistics managers:

- Aircraft manufacturing firms/OEM
- Aerospace equipment manufacturing firms
- Airport authorities
- Transportation firms
- Material handling, equipment manufacturers and dealers
- Universities and flight schools (professors/instructors)
- Aviation communications/electronic equipment
- Government/military
- Aerospace/aviation software/computer service firms
- Management/executive recruiting firms
- Air freight/distributors
- Telecommunications and other service firms

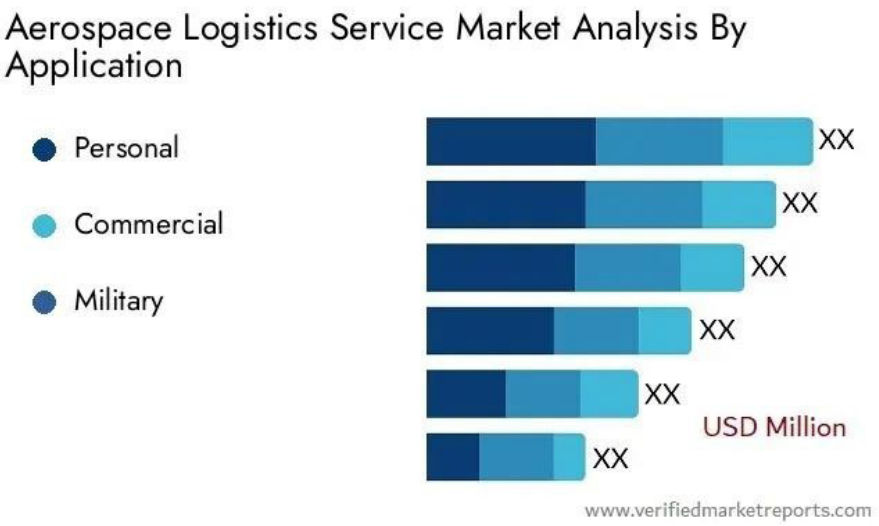


Image Courtesy : Verified Market Report

An Ideal Aviation Logistics Ecosystem

Aerospace Logistics is a crucial area of growth in the Dallas/ Fort Worth metroplex (Texas) in the United States. Moreover, Texas boasts the nation's largest air and road network, and plenty (several leading) of aerospace logistics businesses in the region. It has not only the US's largest passenger airports, it has a dedicated freight airport, several regional/reliever airports, and close to a host of additional airfields north of Texas. Two major airlines, several feeder, and charter operators, and the two largest air freight companies are headquartered or have representation in the area.

Superior highway infrastructure makes for a robust trucking ecosystem with over 500 motor carriers operating there. Seven of the nation's top freight rail lines operate in the metroplex. In terms of aerospace, distribution, transportation, and logistics services, the Dallas Forth Worth metroplex is a leading aerospace logistics hub.

Aerospace majors located in Dallas: Boeing/Lockheed Martin/Alpine Advanced Materials/Icarus Jet/The Arnold Companies/BP Aero/C & M Aviation Services/Dallas Avionics/Triumph Aero systems /Vector Nav

Importantly, DEFENCE is one of the key industries in the Dallas Fort Worth area.

Size of the Global Aerospace Logistics Market

According to data provided by Verified Market Research, the Aerospace Logistics services segment is tipped for impressive growth soon. Key drivers are seen to be an increased focus on research and development, leading to product innovation and development to redefine customer -centricity. Expanding footprint in emerging markets, forging strategic partnerships and collaborations are to result in this anticipated market growth. Again, quick adoption of digitalisation and integration of advanced technology will open newer avenues for doing business, growing the market.

Top Aerospace Logistics Service Market Companies:

- DHL Supply Chain
- Kuehne+Nagel
- UPS Supply Chain Solutions
- DB Schenker
- GEODIS
- CEVA Logistics
- Nippon Express
- C.H. Robinson
- BollorÃ© Logistics
- Yusen Logistics
- FedEx Supply Chain
- DSV A/S
- Expeditors International
- XPO Logistics
- Agility Logistics
- Dachser
- Toll Group
- Sinotrans

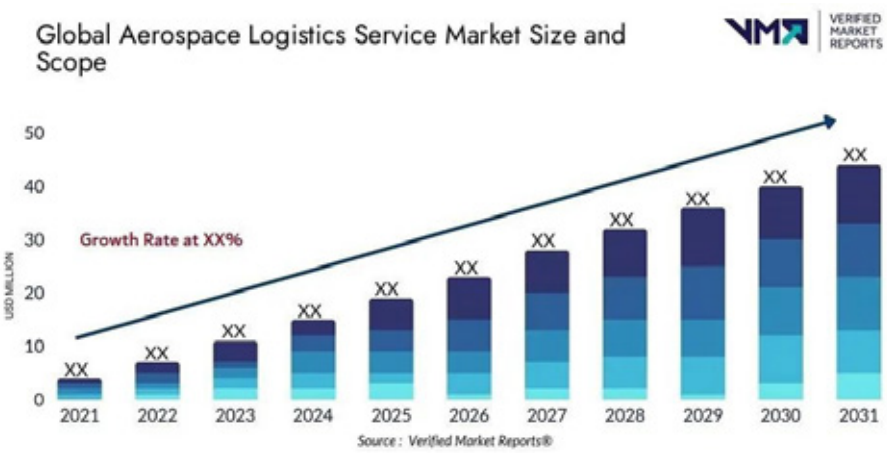


Image Courtesy : Verified Market Report

Reference Credit:

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Omni Logistics
Aerospacelogisticsgroup.com
Verified Market Research

Cayman Airways Enhances Passenger Experience with Burrana's In-Seat Solution

Cayman Airways partners with Burrana to enhance passenger device charging on board with its 48VDC power, reflecting their commitment to superior customer experience.

Cayman Airways, the flag carrier airline of the British Overseas Territory of the Cayman Islands, has partnered with Burrana to enhance their passenger experience. With the implementation of Burrana's technology, passengers now have the convenience of powering and charging multiple devices onboard Cayman Airways aircraft, aligning with the airline's tagline, "Those who fly us, love us more."

"Cayman's passengers will be able to enjoy all the benefits of Burrana's in-seat power solution, including high-speed USB charging, intelligent power-sharing distribution and load shed management that ensures greater utilization of available power, while multiple levels of redundancy provide the highest reliability, meaning the possibility of a passenger-facing failure is almost zero" explained by David Pook, VP Global Marketing & Sales.

This program marks a significant milestone for Burrana as it is the first implementation of its kind on a Boeing B737Max aircraft. The system, tailored for all economy class passengers, features two combination USB-A and USB-C jacks per triple seat, powered by one USB Seat Box (USP) per seat group. Installed on 144 B/E Aerospace Meridian seats, the system is seat leg mounted, ensuring ample legroom for passengers without encroaching on their personal space."

We were looking for a retrofit in-seat power system for our B737MAX aircraft. We chose Burrana for their favorable pricing, lower weight, innovative system and installation design. The Burrana team was very committed and responsive to our needs. After more than a year in service, we are very satisfied with the reliability of the product." said Fabian Whorms, CEO at Cayman Airways

A key factor in Cayman's decision to choose Burrana was their need for a lightweight system that would not impact the existing seat certification. Additionally, they sought to achieve additional benefits through reduced components and Line Replaceable Units (LRUs). Burrana's Integrated Seat Power System (ISPS) meets these requirements with its 48VDC power architecture, offering an ultra-lightweight system with enhanced reliability and fewer components compared to competing AC distribution systems.

Burrana stands as a leading provider of IFE and cabin technology solutions. Our acclaimed RISE In-Seat Power system boasts several notable advantages: fastest charging capabilities, lightweight design enabling installation without seat re-certification, smart load balancing for fair device charging, seamless upgrade to 60W USB-C through outlet replacement, and comprehensive data collection for optimized system operation. Currently operational on over 200 aircraft globally

RTX's Collins Aerospace introduces Helix, their next-generation main cabin seat

Collins Aerospace Introduces Helix Main Cabin Seat, Prioritizing Comfort, Reliability, and Sustainability for Narrow-Body Aircraft.

Helix seat back is optimized to accommodate a greater number of IFE solutions, literature pockets and full-sized meal trays.

Collins Aerospace, a division of RTX, unveiled its Helix main cabin seat for narrow-body aircraft. The Helix seat is designed to be lighter than previous generations of economy class seats, while maintaining ergonomic comfort and enhancing living space without reducing cabin density.

"Helix seating was developed with three key pillars in mind – comfort, reliability and sustainability. The contemporary design increases passenger living space and under seat stowage, while the seat back is optimized to accommodate a greater number of integrated inflight entertainment (IFE) solutions, literature pockets and full-sized meal trays." said Christophe Blanc, vice president and general manager of Aircraft Seating at Collins Aerospace

Utilizing high strength-to-weight composite materials and advanced design, the Helix seat achieves significant weight savings compared to similar economy class seats, thereby reducing the overall aircraft carry weight, fuel consumption, and carbon emissions. The reimagined frame design optimizes passenger seat back angles for sustained comfort and improves cushion integration, enhancing ergonomics, product longevity, and consistency across cabins and fleets.

Collins Aerospace is actively collaborating with several airline customers to integrate the Helix main cabin seat into their narrow-body fleets

India and France to Finalize $5.5 Billion Rafale M Jet Deal

India and France engage in pivotal talks to secure Rafale M fighter jets, valued at $5.5 billion, for urgent naval requirements, enhancing carrier capabilities and operational standards.

India and France are set to commence final contract and price negotiations for the acquisition of Rafale M fighter jets, urgently needed by the Indian Navy for its aircraft carriers. Senior officials will begin discussions this week to finalize the estimated $5.5 billion deal, with the contract expected to be signed within the financial year, starting on May 30, 2024

The negotiations will finalize the price, weapons package, maintenance terms, and delivery timelines for the aircraft. The Indian Navy is keen to conclude the deal promptly to equip its latest aircraft carriers, INS Vikrant and INS Vikramaditya. The acquisition includes 22 single-seat jets and four twin-seat trainers, along with equipment, weapons, spares, simulators, training, and logistic support.

The Rafale M, manufactured by Dassault Aviation, is a versatile, single-seat aircraft capable of performing a range of missions, including air defense, nuclear deterrence, deep strikes, and reconnaissance. The jets will be manufactured to India-specific standards and incorporate several indigenous systems, including weapons and communication technologies. The Rafale M can execute both air-to-ground and air-to-air missions simultaneously, supported by its mission system, which accommodates various armaments such as the long-range Meteor missile, MICA missiles, HAMMER, SCALP, AM39 EXOCET, and laser-guided bombs, along with a 2,500 rounds-per-minute NEXTER internal cannon.

While both Rafales are identical, the maritime version is heavier due to modifications like a reinforced undercarriage to cope with the stresses of landing on carrier decks, a new fin-tip Telemir system for syncing the inertial navigation system to external equipment, a "jump strut" nosewheel for short takeoffs, a tail hook for arrested landings, and a carrier-based microwave landing system.

Five Rafale M jets will be deployed on the INS Vikrant aircraft carrier, with the remaining jets rotated as needed. This acquisition, cleared by the Defence Procurement Board in July last year, aims to meet the immediate and critical requirements of the Navy for carrier-borne combat aircraft. It will also benefit from operational commonality with the 36 Rafale jets already in service with the Indian Air Force.

The Rafale M's design facilitates on-wing engine inspection and standard maintenance, minimizing downtime and associated expenses. Essential line-replaceable units can be swiftly replaced using commonly available tools. The aircraft's design also prioritizes fuel efficiency, aligning with Honeywell's strategic focus on major aviation trends ■

Cathay Pacific, Singapore Airlines Join Forces on Sustainability

Cathay Pacific and Singapore Airlines have signed an MoU to boost sustainable aviation fuel and share best practices in the Asia-Pacific region.

Cathay Pacific and Singapore Airlines (SIA) have entered into a Memorandum of Understanding (MoU) to jointly pursue a variety of sustainability initiatives. This collaboration focuses on promoting the development and utilization of sustainable aviation fuel (SAF) within the Asia-Pacific region, which is a vital component for the industry's decarbonization efforts. Additionally, the partnership aims to facilitate the exchange of best practices to enhance overall sustainability performance.

The Memorandum of Understanding (MoU) was signed by Ronald Lam, Chief Executive Officer (CEO) of Cathay Group, and Goh Choon Phong, CEO of Singapore Airlines. The agreement, concentrating on two key areas, highlights both carriers' commitment to achieving net-zero carbon emissions by 2050. It also reaffirms their aspiration to drive sustainability advancements within the airline industry.

Ronald Lam, Chief Executive Officer, Cathay Group, stated "As part of our collaborative ethos of 'Greener Together', we actively seek like-minded industry leaders for strategic partnerships in transitioning to sustainable aviation. Our collaboration with Singapore Airlines aims to accelerate and support the development of the SAF supply chain in the region, fostering a reliable SAF ecosystem to enable the industry to achieve its long-term decarbonisation goals. Cathay was one of the first airlines in Asia to set a target of 10% SAF for its total fuel consumption by 2030, and we are undertaking a multi-pronged approach to contribute to the aviation industry's transition towards a greener future."

Firstly, Cathay Pacific and Singapore Airlines will collaborate to promote the increased use of Sustainable Aviation Fuel (SAF) in the Asia-Pacific region. Initiatives will include raising public awareness about SAF's crucial role in decarbonizing aviation, advocating for supportive regional policies, and promoting the establishment of a standardized global accounting and reporting framework to ensure transparency and verifiability of emission reductions from SAF use. Additionally, the airlines will explore joint procurement opportunities for SAF at selected locations, aimed at enhancing SAF production and supporting its broader adoption within the airline industry.

Goh Choon Phong, Chief Executive Officer, Singapore Airlines, said "Singapore Airlines is committed to embedding sustainability in all aspects of our operations. At the same time, we recognise that we cannot achieve our targets alone. Our partnership with Cathay signifies our mutual ambition to enhance collaboration in sustainability initiatives in the Asia-Pacific region. Together we are helping to set the foundation for a more sustainable aviation industry, and ensure that future generations continue to reap the benefits of air travel."

The second focus area will involve the exchange of best practices to reduce single-use plastics, minimize waste, and enhance energy efficiency in ground and cargo operations. This collaboration will enable Cathay Pacific and Singapore Airlines to improve their sustainability performance and accelerate the development and implementation of sustainable solutions in their operations ■

BOC Aviation delivers Three Boeing 737-8 Aircraft to WestJet

BOC Aviation Limited announces the placement of three used Boeing 737-8 aircraft with WestJet, powered by CFM LEAP-1B engines, for delivery in 2024.

BOC Aviation Limited ("BOC Aviation" or the "Company") is excited to announce the placement of three used Boeing 737-8 aircraft with its esteemed customer, the WestJet Group ("WestJet"). These aircraft, powered by CFM LEAP-1B engines, represent a significant milestone in the longstanding partnership between BOC Aviation and WestJet. Scheduled for delivery in 2024, these aircraft will bolster WestJet's operational capacity and enable the airline to continue delivering exceptional service to its passengers.

Steven Townend, Chief Executive Officer and Managing Director said "We are delighted to welcome WestJet, one of Canada's leading airlines, back to our customer base. This deal is a testament to our long-term relationship and our ability to evolve and meet our airline customers' fleet expansion needs. With this transaction, we have provided WestJet with one of the world's most popular single-aisle jets, delivering from our fleet that comprises 77% latest technology aircraft."

BOC Aviation is a leading global aircraft operating leasing company, boasting a fleet of 688 aircraft owned, managed, and on order. As of March 31, 2024, its owned and managed fleet was leased to 90 airlines across 45 countries and regions worldwide. BOC Aviation is listed on the Hong Kong Stock Exchange (HKEx code: 2588) and is headquartered in Singapore, with additional offices in Dublin, London, New York, and Tianjin.

Mike Scott, WestJet Group, Executive Vice-President and Chief Financial Officer said "WestJet has an ambitious growth strategy, and working with a trusted partner like BOC Aviation supports us in meeting our growth expectations for 2024. We are seeing the benefits of our strategy come to life across our network and the consistent growth of our fleet capacity is essential to maintaining our momentum."

Over 28 years of operation, WestJet has significantly reduced airfares in Canada, thereby increasing the flying population to over 50 percent. Since its launch in 1996 with three aircraft, 250 employees, and five destinations, WestJet has expanded to a fleet of more than 180 aircraft, employing 14,000 individuals and serving over 100 destinations across 26 countries ■

CPaT Announces New Contract with AnimaWings Airlines

CPaT will provide AnimaWings with Airbus A220 and A320 pilot and cabin crew training courseware, including systems and safety modules.

CPaT Global, a prominent provider of distance learning solutions for the airline and aviation sector, has secured a new contract with AnimaWings. Under this agreement, CPaT will furnish AnimaWings with Airbus A220 and Airbus A320 pilot and cabin crew training courseware, encompassing Aircraft Systems and General Subjects for pilots, and Aircraft Systems for Cabin Crew, along with Cabin Crew Safety and General Subjects modules.

Marius Pandel, President of the Board of AnimaWings, said."As the leading provider of distance learning in the aviation industry, we are thrilled to support Romanian airline AnimaWings, We look forward to empowering their pilots and cabin crew with our high-quality and innovative courseware as they continue to grow their operations. We are particularly pleased to start our cooperation with CPaT, as we are eager to enhance the skills and knowledge of our aviation professionals through CPaT's cutting-edge training programs, ensuring excellence and safety as we continue to expand our operations,"

CPaT Global, LLC (CPaT) is the market leader in distance learning for the aviation industry. CPaT delivers software-as-a-service applications to more than 350 global aviation customers, serving 100,000+ individual training users each year. CPaT pioneered the use of distance learning in aviation training 30 years ago and has built on that legacy to offer new and imaginative training solutions that are practical, forward-looking, and invaluable.

Established in 2019, AnimaWings is a Romanian airline part of the Memento Group, with a team of professionals who offer passengers quality services, on regular or charter flights, implementing systems, procedures, and safety protocols to an exceptional standard ■

Mexicana de Aviación Orders 20 Embraer E2 Aircraft

The delivery of the E190-E2 with 08 seats and the E195-E2 with132 seats in a single-class layout will begin in 2025

Mexicana de Aviación, Mexico's state-owned carrier, has ordered 20 Embraer E2 aircraft, making it the first E2 operator in Mexico, benefitting from the E2's low operating costs and fuel efficiency. The Deliveries for the deal of 10 E190-E2 and 10 E195-E2 jets will begin in 2025. Mexicana will configure the E190-E2 with 108 seats and the E195-E2 with 132 seats in a single-class layout. With this strategic decision, the Mexican state airline is expected to grow and modernize its fleet, strengthening domestic and international connectivity to offer affordable and comfortable air travel, with the highest safety and service standards.

Priscilla Doro Solymossy, VP of Sales and Marketing, Head of Latin America and the Caribbean, Embraer Commercial Aviation, said, "We welcome Mexicana to the E2 family, the first E2 operator in Mexico. Seeing the success and rapid growth Mexicana has achieved since it restarted operations in December 2023 has been remarkable. The airline is already flying to 18 destinations. It has transported more than 115,000 passengers, accumulating more than 3,280 flight hours in this short period, reflecting Mexicana's commitment to operational excellence and customer service."

The Mexicana de Aviación airline is part of the Olmeca-Maya-Mexica S.A. de C.V. Airport Group, Railway, Auxiliary, and Related Services, and restarted operations on December 26, 2023.

A global aerospace company headquartered in Brazil, Embraer has businesses in Commercial and Executive aviation, Defense and Security, and Agricultural Aviation. The company designs, develops, manufactures, and markets aircraft and systems, providing Services and Support to customers after-sales ■

StandardAero's Gosport Facility Attains 500th PW300 Engine Service Milestone

Gosport Engine Service Center Achieves Milestone with 500th PW300 ESP Engine Induction, StandardAero Celebrates 20 Years of P&WC PW300 and PW500 Engine Support.

StandardAero's engine service center located in Gosport, UK, recently marked a significant milestone with the induction of the 500th Pratt & Whitney Canada (P&WC) PW300 Eagle Service Plan (ESP) engine for scheduled maintenance at the facility. The Gosport site has held the designation of a P&WC Designated Overhaul Facility (DOF) since 2009.

Tony Brancato, President of StandardAero Business Aviation said "We are very proud of the Gosport team's milestone achievement of 500 PW300 ESP service events, This accomplishment underscores the trust that our customers have in StandardAero and our experienced team."

Throughout its over 80-year presence at Fleetlands Heliport, StandardAero Gosport has diversified its services to include maintenance of business aircraft engines alongside military and helicopter engines. Over this period, StandardAero has consistently expanded the site's capabilities and technical expertise, contributing to the employment of over 400 individuals in the region.

Marc Turcotte, P&WC Director of Service Network, Quality and MRO Engineering Services stated, "The scheduled maintenance of the 500th PW300 engine highlights the strength of our Global Service Network and our commitment to meeting the needs of our customers through our longstanding collaboration with StandardAero."

StandardAero is widely recognized as a premier independent provider of maintenance, repair, and overhaul (MRO) services. These encompass engine and airframe maintenance, repair, and overhaul, as well as engine component repair, engineering services, interior completions, and paint applications.

Tom Rooke, Director of Engine at StandardAero Gosport said "The Gosport team serves customers from all over the EMEA region and beyond, and we appreciate that operators continue to turn to us for quality engine maintenance services that ensure the safety of their passengers and crew."

StandardAero commemorates the 20th anniversary of its global support for Pratt & Whitney Canada (P&WC) PW300 and PW500 engines this year ■

The Art and Science of Aircraft Modification:

Elevating Passenger Experience

By John Cornell and Allen Gipson, Jamco America, Inc.

In an era where consumer expectations are sky-high, the aerospace industry faces the constant challenge of revitalizing older aircraft to meet modern standards. Imagine stepping onto a 20-year-old aircraft and being greeted by an environment that feels entirely contemporary, complete with state-of-the-art digital displays, plush seating, and a welcoming entryway. This transformative experience is made possible through the meticulous process of aircraft modification, where engineering ingenuity meets visionary design.

The Need for Innovation

Aircraft modifications extend far beyond the mere replacement of old interiors with new ones; they entail comprehensive enhancements that affect every aspect of the cabin. This process involves crafting an environment that not only aligns with an airline's brand identity but also surpasses passenger expectations in terms of comfort and functionality. Such modifications can transform the passenger experience by introducing state-of-the-art amenities, ergonomic seating, and aesthetic improvements that together create a harmonious and inviting atmosphere.

One of the primary challenges in this area arises from the constraints of the production systems used by original equipment manufacturers (OEMs). Typically designed for uniformity and mass production efficiency, these systems often lack the flexibility required for the custom innovations that airlines increasingly desire to differentiate their service. Here, companies like Jamco America, one of the most experienced turnkey aircraft interior integrators, play a critical role by providing the flexibility and specialized expertise that OEMs cannot. By collaborating closely with airlines, these modification experts can realize bespoke visions, transforming these ideas into certified and airworthy designs. This level of customization not only meets the specific needs and wants of airlines but also significantly enhances the overall value and appeal of the aircraft.

Collaborative Innovation in Design

A key aspect of successful aircraft modification is early collaboration between modification companies and airlines. By engaging at the ideation stage, both parties can explore and prototype innovative layouts and features that push conventional limits. For instance, Jamco America's ability to partner with airlines from the conceptual phase allows for a co-creation process that ensures the final product is both feasible and aligned with the airline's aspirations.

The surge in market demand, particularly post-COVID-19, underscores the urgency for upgrades. Airlines, recognizing the potential to revitalize their customer base, are investing in modifications that promise enhanced travel experiences. Upgrades such as state-of-the-art entrance areas that maintain brand continuity from lounge to aircraft are becoming increasingly popular.

Enhancing Functionality and Experience

In the competitive field of aircraft interiors, it's not just about making visual upgrades. Functionality plays a critical role, with technological enhancements like better connectivity, larger and higher-resolution screens, and intuitive user interfaces becoming standard expectations.

Space optimization is another criti-

cal area. Innovative seating layouts and strategically placed partitions can increase capacity while preserving or enhancing comfort. Jamco America is at the forefront, developing solutions that efficiently use cabin space without detracting from the passenger experience. Increasing passenger count without diminishing the travel experience is now achievable through innovative aircraft interior solutions. Seating products are designed to maximize space efficiency, integrating seamlessly with other cabin elements such as lavatories and overhead bins, which are larger and rarely run out of space. Innovative dividers also play a dual role; they serve as partitions while providing additional space beneath for passengers' feet or luggage. This intelligent design allows for more seats to be added without compromising the comfort or convenience of the passengers.

Sustainable and Efficient Design Solutions

Sustainability is becoming a cornerstone of modern aircraft design. Lighter, more environmentally friendly materials are being employed not only to reduce the aircraft's weight and thus its fuel consumption but also to minimize the ecological footprint of manufacturing and operational processes.

Jamco is advancing aircraft interior technologies by actively exploring and implementing new, more sustainable materials aimed at reducing aircraft weight and enhancing efficiency. Among these innovations is HX5 from Alpine, a revolutionary nanocomposite that boasts the strength of aluminum at just half the weight. Originally crafted for the aerospace sector, HX5 marks a significant stride toward lighter aircraft. Additionally, Jamco's R&D team is developing a new lightweight floor panel material. This novel material is designed to meet essential structural and safety standards while also reducing overall weight, supporting the aviation industry's push toward sustainability and efficiency.

Comprehensive Turnkey Solutions

From concept to certification, Jamco America provides comprehensive solutions that streamline the modification process. With capabilities that include everything except the actual installation—handled by maintenance, repair, and overhaul (MRO) organizations—these companies deliver complete packages that significantly cut down on lead times and associated risks.

Integration and Collaboration

As the aerospace industry evolves towards interiors that rival the personalized, high-quality environments seen in the automotive industry, the role of specialized aircraft modification companies becomes increasingly vital. These companies not only understand the technical requirements but also appreciate the aesthetic and functional aspirations of airlines and their passengers. With a commitment to innovation, sustainability, and passenger satisfaction, the future of aircraft interiors looks promising, offering experiences that are both enjoyable and in tune with contemporary expectations. The collaboration between integrators and their airline partners is key to navigating this complex but exciting landscape.

Adopting a cohesive and integrated approach to designing aircraft interiors, including stowage systems, seating, galleys, and lavatories, ensures that all components work harmoniously both in function and design, creating a unified aesthetic. Moreover, partnering with an experienced integrator will not only facilitate this seamless integration but also ensure the smooth execution of installation or retrofit processes, staying within budget and schedule constraints. This comprehensive strategy is preferable to engaging multiple vendors for disparate components, as evidenced by dozens of major airlines opting for Jamco America's turnkey aircraft interior integration services. Operating from their facility in Everett, WA, Jamco America provides an all-encompassing suite of services that includes engineering, technical publications, manufacturing, and testing capabilities, along with an on-site FAA Organization Designation Authorization (ODA) certification department. Ultimately, this integrated approach significantly boosts the efficiency and functionality of aircraft interiors, streamlining the installation process while maintaining a consistent and appealing aesthetic throughout the cabin ■

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Aircraft INTERIORS TODAY

SMBC Aviation Capital handovers solo Airbus A321neo to Aegean Airlines

SMBC Aviation Capital has successfully delivered an Airbus A321neo aircraft equipped with two advanced Pratt & Whitney W1133GA-JM engines to Aegean Airlines with the deliveries taking place at the Airbus facilities in Hamburg, Germany.

SMBC Aviation Capital has announced the successful delivery of an Airbus A321neo aircraft to Aegean Airlines. The aircraft, bearing the Manufacturer Serial Number (MSN) 11827, is equipped with two advanced Pratt & Whitney W1133GA-JM engines, ensuring high efficiency and performance. The delivery took place at the Airbus facilities in Hamburg, Germany, marking another milestone in the longstanding partnership between SMBC Aviation Capital and Aegean Airlines. This latest addition to Aegean Airlines' fleet underscores the airline's commitment to modernizing its aircraft and enhancing its operational capabilities.

The Airbus A321neo, known for its fuel efficiency and extended range, is a strategic asset for Aegean Airlines. The aircraft's PW1133GA-JM engines are renowned for their advanced technology, offering significant reductions in fuel consumption and CO2 emissions compared to previous generation engines. This aligns perfectly with Aegean Airlines' sustainability goals and its efforts to reduce its environmental footprint.

The Airbus A321neo is designed to offer superior passenger comfort with its spacious cabin and advanced aerodynamics. It also provides airlines with greater operational flexibility due to its extended range and fuel efficiency. For Aegean Airlines, this aircraft will play a crucial role in expanding its route network and improving overall service quality for passengers.

The delivery ceremony at the Airbus Hamburg facility was attended by key representatives from SMBC Aviation Capital, Aegean Airlines, and Airbus. This event highlighted the collaborative efforts and strong partnership between the companies involved.

This latest delivery reaffirms SMBC Aviation Capital's position as a leading aircraft leasing company, providing innovative and sustainable solutions to airlines worldwide. With a diverse portfolio of modern aircraft, SMBC Aviation Capital continues to support the growth and operational efficiency of its airline partners.

As Aegean Airlines integrates the new A321neo into its fleet, passengers can look forward to enhanced travel experiences, including improved comfort and reliability. This delivery marks another step in Aegean Airlines' journey towards maintaining a modern, efficient, and environmentally conscious fleet ■

Aero Asahi to Launch Japan's First Agusta-Branded VIP/Corporate Helicopter

Aero Asahi, a general aviation service provider in Japan, is set to operate an AW169 helicopter with delivery anticipated in Spring 2025.

Aero Asahi Corporation, one of Japan's foremost general aviation service providers, will introduce an AW169 light intermediate twin-engine helicopter featuring a dedicated Agusta configuration into service. This marks Aero Asahi as the first operator in Japan to utilize an exclusive VIP Leonardo helicopter under the Agusta brand.

Aero Asahi has gained extensive familiarity with the outstanding features and capabilities of the modern AW169 helicopter by supporting a dedicated demonstration tour in Japan in 2023. The AW169 offers high performance and advanced flight and navigation capabilities due to its sophisticated avionics and mission systems. It also provides unparalleled comfort and sustainability, featuring a customized interior and an Auxiliary Power Unit (APU) mode that powers all main cabin and cockpit systems on the ground with rotors stopped, in addition to meeting the latest generation safety standards.

The Agusta brand enhances these characteristics for VIP and corporate transport duties, combining best-in-class performance, high comfort, and customization levels with the advanced technologies recognized in Leonardo's executive transport-configured helicopters for decades.

Aero Asahi's AW169 helicopter is scheduled for delivery in spring 2025 and will be equipped with a range of specialized features, including advanced soundproofing solutions, dedicated VIP seating for up to eight passengers, a Smart Cabin Management System with air conditioning control, and an entertainment system.

The introduction of the AW169 has further expanded Leonardo's presence across various markets, including passenger transport. It reinforces the company's global leadership in the multi-engine VIP market, with over 900 helicopters of various models and a market share exceeding 40% by value over the past decade. This addition offers operators an option that fits between the popular AW109 series and the bestselling AW139 models.

Over 320 AW169 helicopters are currently on order, with approximately 170 units delivered from the Vergiate final assembly line in Italy to operators in over 30 countries. The global fleet has accumulated over 170,000 flight hours across various operations and conditions.

Approximately 160 helicopters of various types, including the AW169, are in service in Japan, performing a wide range of missions such as law enforcement, emergency medical services, search and rescue, firefighting, disaster relief, VIP and corporate transport, electronic news gathering, and maritime utility ■

HTM commits to Expanding the H145 helicopter fleet

The HTM H145 fleet is projected to achieve double-digit status, with 10 aircraft anticipated, seven of which will be dedicated to offshore wind support missions.

HTM Helicopters has ordered one Airbus H145 helicopter, with additional options for two more units. These newly acquired aircraft will be utilized for offshore wind operations, facilitating the transportation of technicians and materials to wind farm turbines situated off the coastlines of Germany and France.

Bernd Brucherseifer, Managing Director for HTM Helicopters said, "Over the past 15 years in the offshore wind business, we've seen projects move further out from the coast and require additional payload, which has led us to add additional H145s to our fleet. In addition to excellent OEI performance, the H145 offers the chance to quickly perform role changes for various customer missions and is very reliable and easy to maintain. The H145 is the perfect tool for the operation and maintenance phase in offshore wind operations, and we will see a lot more demand for it in this market soon."

HTM, as a pioneering operator, received the initial delivery of a five-bladed H145 D3 crafted exclusively for offshore wind support. At present, HTM manages an Airbus Helicopters fleet comprising 18 units, encompassing a blend of H125s, H135s, and H145s. Upon exercising all available options, the HTM H145 fleet is projected to achieve double-digit status, with 10 aircraft anticipated, seven of which will be dedicated to offshore wind support missions.

Axel Humbert, Head of the H145 program said, "The H145 is ideally suited for offshore wind operations due to the significant capacity it offers for transporting passengers and cargo, as well as its outstanding hover performance for hoisting operations. As our long-standing partner, we're pleased HTM has seen the value that the H145 provides and continues to place their trust in our helicopters as they expand their fleet."

In the most recent iteration of Airbus' highly popular H145 model, an advanced five-bladed rotor system has been integrated into the versatile multi-mission aircraft. This upgrade resulted in a notable increase of 150 kg in the helicopter's useful load capacity. The introduction of a bearingless main rotor design enhances maintenance procedures, streamlining operations, and elevating serviceability and reliability levels. Additionally, this innovation contributes to heightened flight comfort for both passengers and crew members.

H145 includes a high-performance 4-axis autopilot, increasing safety and reducing pilot workload. Its particularly low acoustic footprint makes it the quietest helicopter in its class, while its CO_2 emissions are the lowest among its competitors ■

easyJet and SR Technics Announce New MRO Facility in Malta

easyJet to Conduct Heavy Maintenance for Its Fleet of Over 340 Aircraft, Integrating a Workforce of More Than 400 Employees into the Airline

easyJet and SR Technics have finalized an agreement today, resulting in easyJet's acquisition of the SR Technics maintenance facility in Malta. The signing ceremony, attended by Prime Minister Dr. Robert Abela, was held at the maintenance hangar and marks the official handover of the facility to easyJet.

Prime Minister of Malta, Hon. Dr Robert Abela said "The Government stands ready to support the industry", "We take pride in the Maltese leadership managing these hangars and commend our dedicated technicians and engineers whose efforts have attracted and retained such esteemed companies.

"easyJet has established strong connections with Malta, having operated flights to the island since March 2008. Over this period, the airline has transported over four million passengers to and from Malta and currently serves more than 400,000 customers annually. easyJet operates flights to Malta from nine of its bases across Europe.

David Morgan, Chief Operating Officer for easyJet, said "We are delighted to be in Malta today to mark this important milestone. We have long held links with the island and look forward to further strengthening these in the coming years with this maintenance facility which will mean we will employ more than four hundred people locally to maintain our growing, modern fleet of aircraft."

easyJet will now conduct heavy maintenance on its expanding fleet of over 340 aircraft and integrate the workforce of more than 400 currently based at the

facility into the easyJet Group. The six-bay aircraft maintenance facility has been performing heavy maintenance for the easyJet fleet for several years.

Brendan McConnellogue, Director of Engineering for easyJet, said "We have a long history with this fantastic maintenance facility, having worked closely with us for many years and so are really pleased to bring the facility along with its highly skilled and experienced workforce into the easyJet family. In recent years, easyJet has brought much of its aircraft maintenance operations in house and so taking on the facility is very much aligned with this strategy. We look forward to welcoming the team in Malta to easyJet!"

Since March 2008, easyJet has established significant ties with Malta through its consistent flight operations to the island. Over the years, the airline has facilitated the transportation of over four million passengers to and from Malta. Presently, easyJet serves more than 400,000 customers annually on its flights to and from Malta. Operating from nine of its bases across Europe, easyJet ensures convenient connectivity to the island nation. and from Malta.

Owen McClave, CEO for SR Technics, commented "As part of our strategic growth in engine MRO business, the divestment of the aircraft base maintenance business plays a key role in shaping our portfolio. With easyJet we found a perfect partner to take over our aircraft maintenance subsidiary in Malta."

easyJet stands as Europe's foremost airline, distinguished by its unparalleled route network linking Europe's major airports with competitively priced fares and exemplary customer service. With a vast presence on Europe's most sought-after routes, easyJet operates on a greater number of popular routes than any other airline. In 2023 alone, easyJet transported over 82 million passengers, further solidifying its position as a leading carrier in the region.

Daniel Galea, General Manager for SR Technics Malta, said "We extend our heartfelt thanks to all our stakeholders especially our employees and customers for their continued support and dedication, and as we embark on this new journey we look forward to continue maintaining the high standards and commitment to excellence which have been the cornerstone of our success."

Headquartered in Zurich, Switzerland, the SR Technics Group is a leading MRO (Maintenance, Repair, and Overhaul) service provider in the civil aviation industry. With a global network spanning Europe, America, Asia, and the Middle East, SR Technics offers fully customized solutions for aircraft engines, airframes, and components. Serving over 500 customers worldwide, SR Technics employs 2,200 professionals dedicated to ensuring optimal operational performance and safety ■

Deutsche Aircraft begins building the Final Assembly Line for the D328eco Aircraft

Deutsche Aircraft prioritizes digitalization for 100% paperless production, enhancing efficiency and precision with automated systems and innovative IT solutions.

Deutsche Aircraft has started preparations for establishing the Final Assembly Line (FAL) at Leipzig/Halle Airport, marking a pivotal advancement in the D328eco program. Nevertheless, initial construction activities are now underway with local partner's collaboration, signaling progress towards the production of the new 40-seater turboprop aircraft in Saxony.

In May 2023, Deutsche Aircraft marked the ground-breaking ceremony in Leipzig with federal and state partners. Since then, foundation work for the Final Assembly Line (FAL) has commenced. The German OEM is now gearing up for the subsequent phase of this ambitious endeavor. Thomas Kralinski, the State Secretary of the Saxon State Ministry for Economics, Labour, and Transport, met with Nico Neumann, COO of Deutsche Aircraft, to review the project's progress.

Deutsche Aircraft COO, Nico Neumann, expressed satisfaction with the progress of the Leipzig Final Assembly Line, emphasizing the integration of industry standards critical to the D328eco program. He also highlighted advancements in employee preparation, with initial staff arriving and training commencing.

Nico Neumann, Deutsche Aircraft COO, stated, "We are excited about the continued progress of the Final Assembly Line in Leipzig. The implementation of the latest industry standards is a crucial part of our D328eco programme. We are also making good progress in preparing the 250 employees for starting work at the site. The initial employees have arrived and we have begun training for the Leipzig location."

The Final Assembly Line is set to achieve full climate neutrality. A photovoltaic system on the roof will generate all necessary production energy in a CO2-neutral manner. Additionally, state-of-the-art heat pumps and energy storage systems will ensure a self-sustaining electricity supply. The environmentally-conscious design features a green roof and a wood-concrete hybrid

construction for the administration building.

Thomas Kralinski, State Secretary of Saxony of Deutsche Aircraft, added, "The Saxon State Ministry for Economics, Labour and Transport is providing support for this project and I am pleased to announce that the preparatory construction work at Leipzig/Halle Airport has officially started. I would like to extend my best wishes to Deutsche Aircraft and all its partners for a swift and successful construction process for the new Leipzig hangar."

Deutsche Aircraft is prioritizing digitalization, aiming for 100% paperless production. Automated, driverless transport systems and innovative IT solutions enhance efficiency and precision, creating a modern, appealing workplace.

The Final Assembly Line, together with the flight readiness hangar, logistics center, and administration building, will cover an area of around 62,000 square meters. The intention is to produce forty-eight D328eco aircraft per year and between 250 and 350 jobs will be created in the region ■

ST Engineering begins construction of Third MRO Hangar in Pensacola

The 167,000 sq ft hangar, featuring two bays capable of servicing wide-body aircraft, is projected to add 500,000 man-hours annually.

■ ST Engineering collaborates with Florida Power & Light (FPL) to power Pensacola hangars sustainably through SolarTogether.

ST Engineering initiated the construction of its third aircraft maintenance hangar at Pensacola International Airport today, signifying progress in its expansion strategy. The 167,000 sq ft hangar, featuring two bays capable of servicing widebody aircraft, will enhance operational capabilities. Upon completion in the second half of 2026, it is projected to add 500,000 man-hours annually.

The newly constructed hangar is integral to ST Engineering's planned airframe Maintenance, Repair & Overhaul (MRO) complex in Pensacola, slated to include four hangar facilities. Upon full completion, the complex is expected to create over 1,700 jobs. Funding for the project involves contributions from ST Engineering, Triumph Gulf Coast, Inc., the City of Pensacola, Escambia County, the State of Florida, and other state and federal entities.

Pensacola Mayor D.C. Reeves said, "The new hangar will contribute significant economic benefits for Pensacola and the surrounding region through the creation of quality jobs and increased demand for goods and services. We look forward to the continued partnership with ST Engineering that will help to position Pensacola as a regional center of excellence for the aviation MRO industry."

Jeffrey Lam, President of Commercial Aerospace, ST Engineering, stated, "We continue to look to the future with the construction of our third hangar in Pensacola that will expand our airframe MRO capacity, allowing us to better meet our customers' growing maintenance needs, drive business growth and strengthen our presence in the region. The new hangar also underscores our longstanding commitment to contribute to the progress of Pensacola's aviation MRO industry and the region's economic growth. We are very thankful for the continued support from the City of Pensacola and the State of Florida as we see our MRO complex project through to fruition."

As part of its commitment to enhanced environmental sustainability, ST Engineering has collaborated with Florida Power & Light (FPL) to mitigate the carbon emissions associated with its hangar operations and meet its energy requirements. Through FPL's SolarTogether program, renewable energy sourced from an offsite solar farm is supplied to ST Engineering's Pensacola hangars. Additionally, the hangars incorporate green and smart technology elements, including light harvesting skylights to reduce electricity usage and integrated vertical lift machines to optimize operational efficiency.

Timothy McBride, ST Engineering North America President, said, "Our expansion in Pensacola aligns with the Group's commitment to invest in its core business and is poised to strengthen our aerospace MRO network in the U.S. and globally. As we deepen our partnership with the City of Pensacola and play a major role in its growth, we look forward to facilitating job creation in the community and strengthening Northwest Florida's status as a national hub for the aviation industry."

ST Engineering is a global technology, defense and engineering group with a diverse portfolio of businesses across the aerospace, smart city, defense and public security segments. ST Engineering currently operates airframe MRO facilities in Mobile, Alabama, and San Antonio, Texas ■

Bombardier Defense and ADAC Order New Challenger 650

The Challenger 650, set for 2026 delivery, will be configured as an air ambulance for Aero-Dienst, expanding Bombardier Defense's presence in Germany and Europe.

Aero-Dienst, with extensive experience in ambulance services for ADAC SE, eagerly anticipates introducing the Bombardier Challenger 650 under our AOC.

Bombardier Defense announced recently that the German automobile association, Allgemeiner Deutscher Automobil-Club (ADAC SE), has placed an order for a Bombardier Challenger 650 aircraft through its subsidiary, Aero-Dienst. The aircraft, scheduled for delivery in 2026, will be configured as a dedicated air ambulance for Aero-Dienst, ADAC's primary aircraft operator, and will provide medical transportation services to ADAC's global customers. This agreement further solidifies Bombardier Defense's expansion in Germany and across the European continent.

Sascha Petzold, Board of Management ADAC Versicherung AG, said "The ambulance service of ADAC Versicherung AG, in cooperation with Aero-Dienst in Nuremberg, has been setting global standards in the field of patient repatriation for over 50 years. By investing in a new aircraft, we are reaffirming our commitment to providing our ADAC members and policyholders with first-class services. Thanks to the Challenger 650's long range, we are able to serve our members worldwide with our own ADAC fleet. The acquisition of this new aircraft is another significant step in our strategy to modernize our fleet and continue to provide the highest level of service to our ADAC members and policyholders."

Bombardier Defense has signed a deal with Aero-Dienst GmbH, a 100% subsidiary of ADAC SE, for a new Bombardier Challenger 650 aircraft, which Aero-Dienst will convert for dedicated medevac use. The Challenger 650's extensive range, exceptional short-field performance, and proven reliability make it ideal for precise and time-sensitive missions, including medical evacuations. This agreement further strengthens Bombardier Defense's presence in Germany and across Europe.

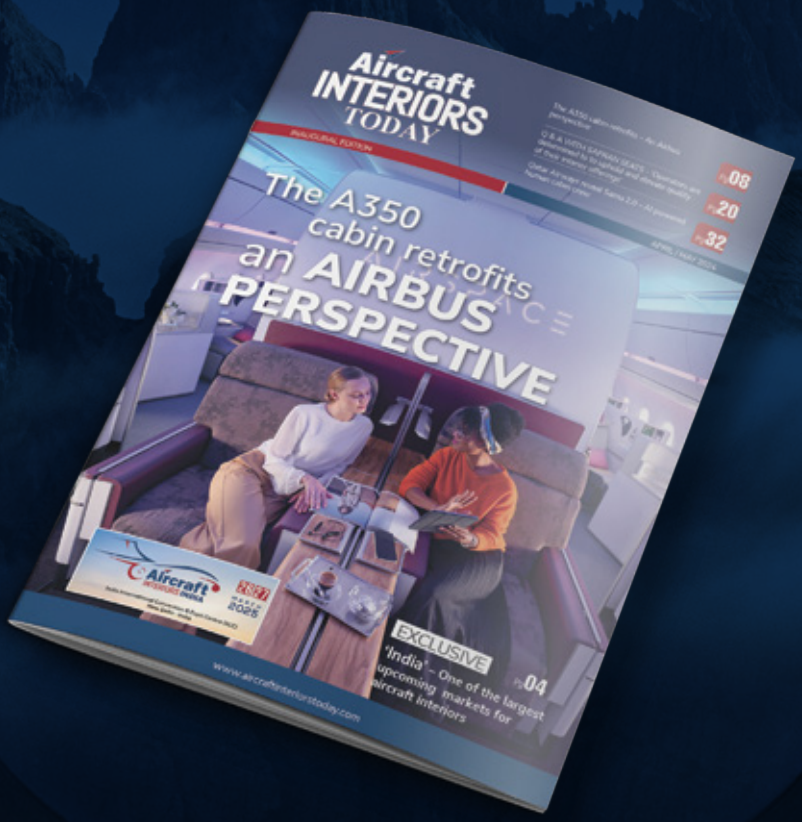
Dr. Oliver Kosing, one of the two managing directors of Aero-Dienst, said "Aero-Dienst, with its long-term expertise in ambulance service for our parent company ADAC SE, is very much looking forward to bring the Bombardier Challenger 650 into service under our AOC. The Challenger 650 is the best aircraft available for our kind of ambulance operation as the performance fits perfectly to our flight profiles," he added, underlining the decision to opt for this type of aircraft. "Another important factor for Aero-Dienst is the availability of intensive care medical equipment at the highest level for transportation of up to four patients. Furthermore, the dimensions of the fuselage with its large diameter and standing height enables our med crew to provide the best possible care for patients during the flight."

This order highlights the key attributes of the Challenger 650 aircraft, including its exceptional short-field performance and proven reliability, making it an ideal choice for patient care. The Challenger 650 features the widest-in-class passenger door, cabin space for up to four stretchers, and offers an exceptionally smooth ride with over 99.9% dispatch reliability and a range of 4,000 nm (7,408 km). These qualities enhance passenger comfort and underscore the aircraft's unique adaptability for optimal air ambulance configuration.

Bombardier Defense boasts dedicated in-house engineering and support teams capable of incorporating customer-requested modifications and providing comprehensive integration solutions with full certification capabilities across civilian, military, and hybrid operations. Renowned globally for its diverse portfolio of proven and versatile specialized aircraft platforms, Bombardier leverages decades of experience working with numerous special mission operators and leading mission systems integrators.

Bombardier designs, builds, modifies, and maintains high-performing aircraft for discerning customers, including individuals, businesses, governments, and militaries worldwide. The company strives to exceed standards by deeply understanding customer needs and anticipating their unspoken requirements ■

Aircraft INTERIORS TODAY



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CAAS and IATA Forge Alliance to Launch Global SAF Registry in Singapore

SAF mandatory for outbound Singapore flights from 2026, with a 1% adoption target enforced by a corresponding levy.

The Civil Aviation Authority of Singapore (CAAS) and the International Air Transport Association (IATA) are joining forces to establish a Sustainable Aviation Fuel (SAF) Registry. This collaborative effort will result in a comprehensive, global platform designed to meticulously monitor, document, and verify emissions reductions derived from the utilization of SAF. The Registry seeks to accelerate the adoption of SAF by providing authoritative oversight and transparent reporting of emissions reductions resulting from SAF deployment.

In alignment with the worldwide initiative to expedite Sustainable Aviation Fuel (SAF) adoption, the Registry is under development by IATA in collaboration with airlines, governmental bodies, international organizations, original equipment manufacturers (OEMs), fuel producers and suppliers, airports, and corporate travel management entities. Governmental involvement, notably CAAS, is instrumental in ensuring that the Registry meets the requirements of civil aviation authorities.

As outlined in the Singapore Sustainable Air Hub Blueprint unveiled by CAAS in February 2024, implementing Sustainable Aviation Fuel (SAF) will be mandatory for outbound flights from Singapore starting in 2026. Initially, a 1% uplift target for SAF adoption will be enforced, facilitated by introducing a SAF levy to incentivize compliance with the target. Another pivotal initiative under the Blueprint involves the centralized procurement of SAF for the Singaporean air hub. This strategy aims to consolidate SAF demand, encompassing both the mandated target and discretionary requests from enterprises and entities aiming to mitigate their air travel emissions.

Han Kok Juan, Director-General of CAAS, said, "CAAS is happy to partner with IATA on the development of a SAF registry that is robust, globally recognized and interoperable. The collaboration with IATA allows CAAS to shape the development of the SAF registry which will be a critical enabler for the implementation of Singapore's national SAF target from 2026."

A pivotal facilitator for this endeavor is a universally acknowledged and interoperable Sustainable Aviation Fuel (SAF) accounting and reporting system. This system must remain agnostic to feedstock and pathway choices while adhering to globally recognized sustainability benchmarks, such as the International Civil Aviation Organization's (ICAO) Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA). By integrating such a platform, CAAS can meticulously track the nature and volume of SAF acquisitions, generate corresponding SAF credits, and distribute these credits accordingly. The allocation would be contingent upon the levies amassed under the SAF target for airlines and the voluntary SAF procurement volumes for businesses and organizations.

Willie Walsh, Director General of IATA said, "SAF is a critical element of aviation's net zero CO2 emissions by 2050 goal. Ramping up production of SAF and access to it is essential for airlines who stand ready to use every drop made available. By authoritatively accounting and reporting emissions reductions Mr Willie Walsh, Director General of IATA said, "SAF is a critical element of aviation's net zero CO2 emissions by 2050 goal. Ramping up production of SAF and access to it is essential for airlines who stand ready to use every drop made available. By authoritatively accounting and reporting emissions reductions from SAF, the Registry will help meet the critical needs of all stakeholders of the aviation industry, as part of the global effort to ramp-up SAF production: governments, airlines, OEMs, fuel producers and corporates. In doing so, the Registry will help scale the global SAF market by ensuring that airlines are able to purchase SAF regardless of where it is produced. The industry must work with national authorities like CAAS to ensure compliance with the requirements of civil aviation authorities ■"

MRO Insider rebrands as Alpha Wingman, expands service offerings

Alpha Wingman transforms Private Aviation Support with expanded Services and superior client advantages.

MRO Insider, a platform in business aviation has announced its rebranding to Alpha Wingman. This strategic decision underscores the company's broadened service offerings, which now encompass not only aircraft maintenance but also FBO services, catering, ground transportation, and aircraft detailing services. This rebranding reflects an enhanced commitment to delivering comprehensive support for all aviation professionals.

Entire Service Extension

Under the Alpha Wingman brand, an initiative is underway to revolutionize the private aviation sector by efficiently linking aircraft operators with an expanded range of essential services. Recent enhancements encompass:

- Catering Services: Offering gourmet catering tailored to meet the varied dietary preferences of clients.
- Car Services: Providing upscale ground transportation solutions for both passengers and crew members.
- FBO Services: Enabling aircraft operators to efficiently request quotes for fuel, ramp fees, handling services, and related necessities.
- Pre-Purchase Inspections: Facilitating convenient access to thorough aircraft evaluations prior to acquisition.

Andy Nixon, President of Alpha Wingman said "We are excited to introduce Alpha Wingman, which represents our continued growth and unwavering commitment to meeting the evolving needs of our expanding client base. Our change in identity will help us as we deliver greater access to a wider selection of vendors and services, making Alpha Wingman your go-to source for aviation products and services."

Client Advantages Alpha Wingman offers the following advantages to customers:

- One-Stop Solution: Clients can access a comprehensive range of services through the Alpha Wingman app, optimizing both time and cost efficiency.
- Increased Convenience: With the addition of new services, Alpha Wingman users can procure all necessary services from a diverse array of vendors using a single application.
- Quality and Dependability: Alpha Wingman's network of certified providers ensures the highest standards of service, reliability, rapid responses from multiple vendors, and overall safety across all services.
- Time and Cost Savings: By streamlining the booking process, Alpha Wingman minimizes administrative delays and offers access to a broader selection of vendors, thereby saving customers valuable time and money.
- Enhanced Communication: Platform enables timely communication between aircraft operators and service providers, reducing delays and ensuring up-to-date information from vendors.

Andy Nixon added "Alpha Wingman is not just a new name; it's a new era for our company. We are constantly upgrading our platform to deliver a seamless experience, from booking maintenance and rapid AOG repairs, to arranging catering, booking an FBO or ground transportation services. Our objective is to be your trusted partner, providing access to anything you need for your flight operations."

Sustaining Innovation and Effectiveness Alpha Wingman remains committed to delivering the same innovative, efficient, and high-quality services for which MRO Insider has been renowned. The user-friendly interface, combined with a robust network of certified providers, ensures that existing users continue to receive timely responses and superior services from a broader array of service providers ■

ATR and FLY91 Forge Global MRO Agreement to Boost Regional Air Travel

ATR and FLY91's collaboration under a Maintenance Agreement enhances regional air travel in India, empowering fleet expansion and operational efficiency.

ATR, a leading manufacturer of regional aircraft, and Indian regional airline FLY91, have announced the signing of a Global Maintenance Agreement (GMA), representing a significant move towards enhancing reliable and cost-effective regional air travel throughout India. This comprehensive agreement entails ATR providing repair, overhaul, and pooling services for Line Replaceable Units, along with propeller availability and repair services, in addition to engineering and on-site support for FLY91's expanding fleet of ATR aircraft. Initially encompassing two ATR 72-600 aircraft, the fully customized pay-by-the-hour contract spans five years, with provisions for FLY91 to potentially increase its ATR fleet to 30 aircraft within the same timeframe.

Manoj Chacko, Managing Director and Chief Executive Officer at FLY91, said "As a regional carrier, we are dedicated to serving our customers with reliable, comfortable flights and seamless connectivity, While the ATR 72-600 stands out as the smartest aircraft choice, offering unbeatable economics and cabin comfort, the ATR GMA will be instrumental in further boosting our operations. ATR's proven track record of delivering high-quality products and services, coupled with their competitive pricing, played a significant role in our decision-making process as they align perfectly with our ambitious plans for quality, reliability and fleet growth in a competitive market."

Since its establishment in 1981, ATR has manufactured and delivered aircraft to more than 200 airlines spanning 100 countries globally, facilitating crucial air links for passengers and communities. ATR plays a pivotal role in providing vital regional connectivity, serving people, businesses, and communities worldwide.

Stefano Marazzani, ATR's SVP Customer Support and Services, said "With over 40 years of expertise, ATR is ideally placed to support FLY91's ambitious development plans, sharing insightful data and best practices to ensure their fleet benefits from continuously high performance. This means looking for optimisations wherever possible, anticipating and rationalising maintenance costs, striving for better spare parts availability and reliability, improving troubleshooting, advising on upgrades and providing on-site support with the aim to provide extra value. The GMA business model is enabling all parties to go the extra mile together."

Presently, 80% of the ATR -600 fleet under a pay-by-the-hour contract is encompassed by an ATR Global Maintenance Agreement (GMA), indicating the appeal and significance of the offer for ATR operators ■

IATA unveils FuelIS, an Advanced fuel efficiency analytics solution

IATA has launched FuelIS, an analytics solution to optimize airline fuel consumption using aggregated and anonymized flight and fuel data.

Original Equipment Manufacturers (OEMs) can utilize IATA FuelIS to assess the fuel efficiency of their aircraft or engines relative to industry benchmarks. This enables them to derive insights tailored to various markets, regions, countries, and fleet types using authentic operational data, thus aiding customers in maximizing the effectiveness of their products.

Key Features of FuelIS Include:

- Fleet Fuel Efficiency Assessment: The fuel efficiency of various aircraft types for different regions and times can be analyzed by comparing fuel burn per Operational Tonne-Kilometer (OTK) with industry averages.
- Airport Benchmarking Analysis: Fuel quantity at landing can be measured for aircraft. This can be benchmarked against the aggregated fuel quantities of all other airlines landing at the same airport.

Nick Careen, IATA Senior Vice President Operations, Safety and Security, said "IATA FuelIS is a robust analytical tool for airlines to make both strategic and operational decisions to optimize fuel consumption, reduce fuel costs, and improve environmental performance. By enabling airlines to benchmark their fuel performance against aggregated industry data, airlines can understand where they excel and where they need to take action."

Data Accuracy and Reliability

IATA FuelIS uses data from the IATA Global Aviation Data Management (GADM) system. This data is sourced from the Flight Data eXchange (FDX) program which now comprises fuel data from 215 airlines worldwide, sufficient to ensure the highest level of accuracy in the insights that can be derived.

Supporting Better Performance

Fuel presently accounts for almost one-third of an airline's operational expenses. Since 2005, IATA has collaborated with airlines to pinpoint opportunities for fuel savings. IATA FuelIS will continue to bolster this objective ■

(L to R) - Jérémy Caussade, President, Aura-Aero | ERA, Thierry Racaud, CEO of Airbus Protect.

Airbus partners with AURA AERO for ERA hybrid electric aircraft certification

Airbus Protect and AURA AERO have signed a deal for the certification of AURA AERO's ERA, leveraging the strengths and expertise in the areas of safety, cybersecurity, and sustainability, for the ERA certification and production phases.

Airbus Protect and AURA AERO have officially entered into a cooperation agreement to support the certification of ERA, AURA AERO's forthcoming 19-seater hybrid-electric regional transport aircraft. This collaboration is set to leverage the strengths and expertise of both companies, particularly in the areas of safety, cybersecurity, and sustainability, crucial for the ERA program's certification and production phases.

The partnership between AURA AERO and Airbus Protect underscores a mutual commitment to advancing hybrid-electric propulsion technologies and ensuring their seamless integration within the aviation industry. By working together, the companies aim to streamline the certification process for ERA, addressing regulatory requirements and production milestones efficiently.

Jérémy Caussade, CEO, AURA AERO said,"This new collaboration with Airbus, the world leader in civil aviation, is not only a true mark of confidence in the work of the AURA AERO teams but is also of course an extra guarantee of success for the ERA program, with which we will decarbonize regional aviation as soon as 2030."

A key aspect of this collaboration is the emphasis on safety and cybersecurity, essential components in the certification of any modern aircraft. Airbus Protect brings to the table its extensive experience and technical know-how in these domains, ensuring that ERA meets the highest standards of operational security and passenger safety. Additionally, the partnership will delve into sustainability issues, aligning with the global push towards greener aviation solutions.

Thierry Racaud, CEO, Airbus Protect said, "Working with AURA AERO demonstrates the capability of the Airbus Protect team to help companies across the aviation industry to manage risks at every level, not only dealing with safety and cybersecurity challenges but also sustainability aspects and contributing to the decarbonisation of regional aviation."

The ERA program, which targets a 2030 timeline for its introduction, represents a significant step towards reducing carbon emissions in regional air transport. By integrating hybrid-electric propulsion, the ERA aircraft aims to offer a more sustainable alternative to conventional regional aircraft, aligning with global environmental goals.

This agreement is expected to not only facilitate the certification of the ERA aircraft but also expand Airbus Protect's expertise in hybrid propulsion and all-electric systems within the general aviation regulatory framework (CS-23). It is a noteworthy development in the aviation sector, promising advancements in technology, safety, and sustainability.

As AURA AERO and Airbus Protect move forward with this partnership, the aviation industry can anticipate significant progress in the adoption of hybrid-electric propulsion systems, contributing to a more sustainable future for regional air transport ■

Liebherr to provide advanced Flight Control Computers for Airbus

Liebherr's Flight control computers will enhance safety, reliability, and pilot workload reduction. Modular, high-performance platforms offer flexibility, complementing Airbus systems for safety diversity.

Liebherr-Aerospace has made the official announcement to supply flight control computers for Airbus's commercial aircraft range. The two new integrated flight control computers for the A320 family will be developed as well as manufactured at Liebherr-Aerospace Lindenberg GmbH (Germany) and Liebherr–Electronics and Drives GmbH in Lindau (Germany). Both sites collaborate closely to design an innovative solution for Airbus' flight control system, to be installed on Airbus aircraft. The awarded contract reflects Liebherr's commitment to R&D for integrated, high-performance, multicore processing control computers.

Liebherr´s flight control computers Provide the highest safety and bring increased operational reliability. They support future functionalities and aid in reducing pilot workload. Liebherr's solution is a modular platform offering high computing performance and flexibility for future upgrades and additional functions tailored to customer needs. Liebherr's flight control computers will complement Airbus-developed computers to ensure diversity and maximize safety.

Dr. Klaus Schneider, Managing Director and Chief Technology Officer at Liebherr-Aerospace Transportation SAS Said, "We are very pleased to have been selected by Airbus to provide flight control computers for Airbus. This program combines highly complex electronics and software design. The long-lasting cooperation between Airbus and Liebherr shows a strong trustful collaboration for future programs",

Flight Control Computers host Airbus-developed flight control applications and are integral to the ongoing evolution of Airbus' flight control system. Leveraging extensive expertise in complex electronics, hardware, and software solutions for flight control systems and landing gears, Liebherr has developed an innovative solution tailored to Airbus' specifications.

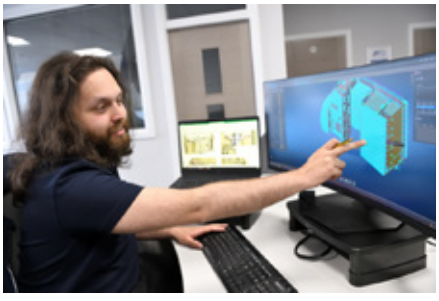
Liebherr-Aerospace Transportation SAS, is one of 13 product segments of the Liebherr Group and a first-tier provider of on-board solutions in the aerospace and transportation industry. The Liebherr Group is a family-run technology company that provides high-quality, user-oriented products and services in a wide range of other areas. Together, they offer comprehensive electronic system expertise for flight control computers ■

Airframe Designs Expands Services with Advanced 3D Scanning Solutions

Advanced 3D Scanning Solutions facilitates the assessment of corrosion, damage, reverse engineering, and inspects intricate components for Airframe Designs.

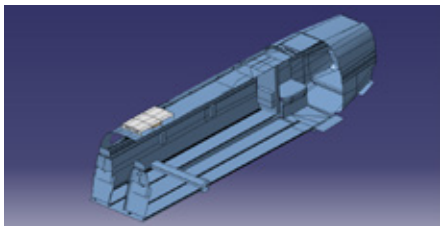
Aerospace specialist Airframe Designs has introduced advanced 3D scanning capabilities as part of its expanded services to address significant challenges for its clients. The company provides comprehensive scanning with high speed and precision, enabling the capture of aircraft geometry and the creation of digital twin datasets. This facilitates the assessment of corrosion, visible damage, reverse engineering of tool surfaces, and detailed inspection of small or intricate components.

Garry Sellick, additive manufacturing manager of Airframe, said, "This capability allows us to gather highly accurate geometrical data for our customers with a comprehensive view of



the aircraft inside and out, performing scans on-site at the customer's location based on their specific needs."

The hand-held 3D laser scanner is a key tool utilized for reverse engineering at Airframe Designs, facilitating meticulous examination of objects through advanced blue light technology and



post-processing software.

This investment by Airframe Designs in a new Materials Requirement Planning (MRP) system, a second Stratasys Fortus 3D printing machine, a new five-axis milling machine, and advanced resin printing technology aims to enhance the company's capability and elevate the quality of parts and tools for its expanding customer base.

The company has also become a member of Additive Manufacturing UK (AMUK) whose aim is to establish the UK as a world leader in the development and adoption of additive manufacturing. The services offered by Airframe Designs meet the demand from the aviation and defense sectors to create new parts or re-engineer obsolete parts in an agile, cost-effective, and sustainable manner.

With polymer additive manufacturing technology, combined with 3D scanning and 3D modeling, the company now offers creative solutions to complex engineering problems in the aviation and defense part market, including solutions for airframe tooling. This technology can also be adapted for other industries including space, nuclear, motorsport, and rail. Leveraging polymer additive manufacturing technology alongside 3D scanning and modeling capabilities, the company now delivers innovative solutions to intricate engineering challenges within the aviation and defense parts market, including airframe tooling solutions. This versatile technology can be adapted for various industries, such as space, nuclear, motorsport, and rail.

Airframe Designs, an aerospace specialist, is dedicated to providing innovative solutions for complex engineering challenges in the aviation and defense sectors. With a focus on leveraging advanced technologies such as polymer additive manufacturing, 3D scanning, and 3D modeling, Airframe Designs offers tailored solutions for airframe tooling and other critical components ■

IFS Introduces Industrial AI Features in latest IFS Cloud release

IFS Cloud 24R1 Enhances Asset Utilization and Service Improvements for Profitability and Sustainability.

IFS, a technology provider specializing in enterprise cloud and industrial AI software, has officially launched its latest IFS Cloud release. This release emphasizes IFS's commitment to assisting asset- and service-centric companies in harnessing the potential of Industrial AI, with new AI-powered features aimed at enhancing operational efficiency and profitability. The May release centers around three key strategic themes, bolstered by the innovative IFS.ai Copilot tool, which empowers users to effectively analyze and utilize data from various facets of their supply chain and operations.

Christian Pedersen, Chief Product Officer, at IFS, said "With this latest release of IFS Cloud, customers will benefit from a new level of meaningful AI capabilities and innovation that is truly relevant to their industry and impactful to their business. The IFS.ai Copilot is the natural next step for IFS Cloud users to engage with and benefit from the AI capabilities we have embedded into IFS Cloud. We're offering so much more than generic AI—our industrial AI approach means the customer can effectively manage supply chains and improve their operations. We're creating an environment where technology and human ingenuity come together."

Energetic Possibilities: Technology and People in Balance

In the realm of enterprise solutions, IFS Cloud stands out for its ability to unlock the full potential of assets, surpassing human potential alone. By ensuring optimal asset performance, IFS Cloud minimizes downtime, extends asset lifespans, optimizes resource utilization, and streamlines operations. Notable features and capabilities include:

- IFS.ai Copilot: This AI-powered assistant enhances decision-making and user experience by providing timely knowledge and guidance. In this release, the first data source target is the IFS Cloud help and support information, aimed at boosting productivity.
- Analytics as a Service: Offering accelerated time-to-value and valuable insights, this service aids in reducing capital expenditure and operating costs.
- Transport Loading: Improving the shipment process, this feature supports greater capacity utilization and faster goods loading.
- Task Bundling for Service: Enhancing technician utilization and efficiency, this feature reduces travel costs and emissions while improving service margins.
- Maintenance Planning and Scheduling New Lobbies: These lobbies improve visibility, drive efficient asset maintenance operations, and ensure compliance with asset maintenance protocols.

Pedersen added "At a time where regulation in Europe and the U.S. is making companies take action in how they set and manage their Sustainability commitments, we are offering new AI-powered capabilities that both help companies improve their operations and report progress. As we look ahead, it's clear that IFS.ai will continue to be a catalyst for change, driving businesses forward with purpose and passion within the industrial setting. The future is not just bright; it's AI-powered, composable, and cloud-enabled, and it's here now."

Increasing Profitability: Succeeding in a Changing Environment

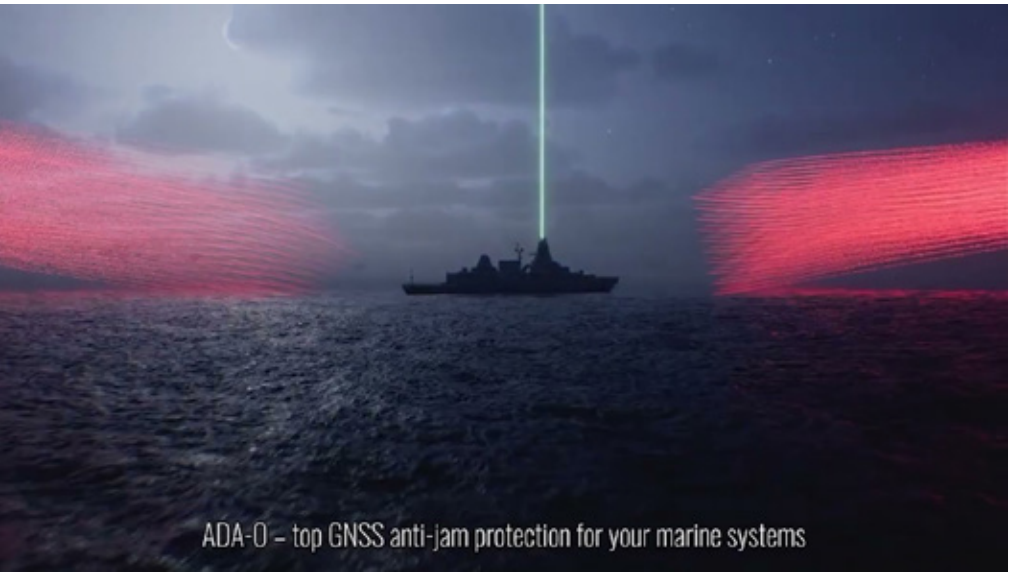
In the pursuit of business success, achieving measurable profitability is paramount. The latest release offers customers the tools to optimize global operations, reduce costs, minimize waste, and explore new business models. Key features and capabilities include:

- Supply Chain Customer Scheduling: Enhance productivity and time savings by managing multiple open schedules from the same plant simultaneously.
- Advanced SLA Management: Improve margins, SLA adherence, and compliance.
- Incomplete & Follow-on Process: Enhance service management with an intuitive guided technician process, ensuring SLA compliance, penalty avoidance, and heightened customer satisfaction.
- Business to Business Portal: Streamline communication between contractors and asset owners by enabling contractors to record multi-site work, providing greater control and visibility ■

Israel Aerospace Industries unveils Jam-Resistant GNSS system

Compact ADA ensures tactical platform operation by countering GNSS jamming and maintaining resilient Position, Navigation, and Timing amidst variable GNSS availability.

Israel Aerospace Industries (IAI) has introduced Compact ADA, a new jam-resistant Global Navigation Satellite System (GNSS) designed for airborne tactical platforms, featuring minimized Size, Weight, and Power (SWaP) characteristics. The system will protect avionic systems against GNSS jamming. The Compact ADA system ensures resilient Position, Navigation, and Timing (PNT) by mitigating GNSS jamming, thereby enabling uninterrupted operation of tactical platforms amidst variable GNSS availability. This contrasts with conventional systems reliant on consistent GPS/GNSS signals. However, budget-friendly, lower-tier equipment poses a risk of significant degradation or complete denial of GNSS PNT functionality.



With over two decades of established expertise, IAI has delivered comprehensive GNSS Anti-Jam solutions tailored to rigorous specifications. Moreover, IAI possesses extensive experience in seamlessly integrating resilient navigation solutions into various platforms, including manned and unmanned aircraft, surface vehicles, maritime vessels, and guided munitions.

Compact ADA, a variation of the ADA system tailored for air tactical platforms, inherits the advanced immunity features of ADA. Developed by IAI, the ADA product line is designed to interface with various satellite navigation systems (GNSS), boasting state-of-the-art technology equipped with multiple mitigation strategies and specialized digital signal processing algorithms. Its adaptability allows seamless integration across diverse platforms.

Jacob Galifat, General Manager of the IAI's MALAM Division said "With the threats that GNSS faces today, these systems are a must for any platform using GPS, or any other Global Satellite Navigation Systems. Our operationally proven systems ensure the availability of GPS and GNSS- based systems, even in the most contested, EW-saturated battle space. Considering the operational challenges, this system has considerable export potential for many air forces and armies who experience GNSS jamming in combat zones"

Israel Aerospace Industries (IAI) is a world-leading aerospace and defense company innovating and delivering state-of-the-art technologies in space, air, land, naval, cyber, and homeland security for defense and commercial markets. Combining the "Start-up Nation" spirit of innovation with decades of combat-proven ■

Adani Defence & Aerospace, EDGE Group sign cooperation Agreement

Adani Defence & Aerospace and EDGE Group collaborate on missiles, weapons, unmanned platforms, and cyber systems.

(L TO R): Gautam Adani-Founder and Chairman of the Adani Group, Hamad Al Marar - Managing Director and Chief Executive Officer, Edge Group

Adani Defence & Aerospace, a leading Indian defence and aerospace company, has signed a landmark cooperation agreement with EDGE Group, a prominent UAE-based advanced technology and defence conglomerate. This agreement aims to establish a global platform that leverages the defence and aerospace expertise of both companies, combining their product portfolios to address the needs of global and local markets. The collaboration will explore opportunities across key areas, including missiles and weapons, airborne, surface, infantry, ammunition, and air defence products, as well as unmanned aerial systems (UAS), loitering munitions, counter-drone systems, unmanned ground vehicles (UGV), electronic warfare (EW), and cyber technologies.

Ashish Rajvanshi, CEO, Adani Defence & Aerospace, said "Our collaboration marks the beginning of a new era in enhancing defence capabilities, emphasizing our commitment to advance technological prowess and promoting bilateral defence cooperation between India and the UAE. It is a reflection of our shared vision to fortify our nation's capabilities by not just delivering cutting-edge solutions for the two countries but also setting new benchmarks in the global defence landscape."

The agreement will explore the establishment of R&D facilities in India and the UAE, along with the development, production, and maintenance of defence and aerospace solutions. These facilities aim to serve not only the Indian and UAE.

Hamad Al Marar, Managing Director and Chief Executive Officer, Edge Group, said "Our agreement with Adani Defence & Aerospace, represents a significant milestone, strengthening our ties within India's defence industry, and underscoring our mutual commitment to advancing UAE-India military ties. This agreement reflects our dedication to bringing our customers the most advanced and sophisticated products to the market, while taking advantage of the global export potential including critical UAE-grown technology. We are keen to setup the joint platform between Adani Defence and Edge to pioneer new technologies and set new standards in advanced military equipment and defence sector."

The agreement with Adani Defence & Aerospace underscores EDGE's commitment to strengthening India's defence industry, recognizing its strategic significance to the group's global operations. This partnership aims to leverage synergies to enhance defence capabilities and foster technological advancements.

Jim Rankin
Executive Chairman of the Board

Stephen Maiden
Chief Executive Officer

Allen McReynolds
President and Chief Operating Officer

West Star Aviation makes new top leadership appointments

West Star Aviation appoints Jim Rankin as Executive Chairman, Stephen Maiden as CEO, and Allen McReynolds as President and COO.

Stephen Maiden joined West Star Aviation in November 2023 after it acquired Jet East, a Gama Aviation Company, where he was President and CEO. Maiden's nearly 30-year career in aviation began as an Electrical and Environmental Specialist on F-16s in the United States Air Force. He has held various roles, including Avionics Technician, Director of Quality and Operations, and CEO in the Maintenance, Repair, and Overhaul (MRO) sector for the past 18 years. His extensive experience and commitment to the industry are expected to drive continued innovation at West Star Aviation.

Rankin, Executive Chairman of the Board of West Star Aviation said, "Stephen and Allen bring a unique set of skills and experiences to their leadership roles. I'm excited to support them as they build on West Star's long-standing guiding principle of taking care of customers and employees." Rankin continued, "Stephen and Allen have a rich understanding of where the company is headed, and I look forward to achieving new milestones with them as they assume these leadership roles."

Allen McReynolds was appointed COO of West Star Aviation in September 2023, shortly before the company acquired Jet East, which significantly expanded its maintenance operations. In the recent leadership restructure, McReynolds will take on increased responsibility and oversight of all business operations as President and COO.

Maiden, CEO of West Star Aviation stated, "I am deeply honored to have the opportunity to lead this remarkable team and express my sincere gratitude for all the hard work and dedication that has contributed to the legacy of West Star Aviation." He continued, "The history of 77 years is truly special. Our people, who are the heart of our organization, will remain our top priority as we strive to deliver exceptional experiences to our valued customers. By prioritizing our team, we can truly be the differentiator in providing outstanding service and achieving operational excellence."

With over 75 years of industry experience, West Star Aviation is a leading independent provider of Maintenance, Repair, and Overhaul (MRO) services. Employing more than 3,000 professionals, West Star operates full-service facilities in East Alton, IL; Grand Junction, CO; Chattanooga, TN; Millville, NJ; Perryville, MO; and Statesville, NC.

McReynolds COO and President stated, "I am humbled and honored to have the opportunity of leading West Star across multiple business lines. The opportunity represents a professional and personal privilege to collaborate with a team of experts. I am excited about what the future holds for West Star,"

West Star Aviation announces a new executive leadership structure, naming Jim Rankin as Executive Chairman, Stephen Maiden as CEO, and Allen McReynolds as President and COO ■

Kim Ernzen appointed Chief Operating Officer at StandardAero

Kim Ernzen to Oversee Global Operations and Efficiency at StandardAero, succeeds Retiring Kerry O'Sullivan, based in Scottsdale Headquarters.

StandardAero has appointed Kim Ernzen as Chief Operating Officer. In this role, she reports directly to Russell Ford, StandardAero Chairman and CEO. Ernzen is responsible for global operational performance, efficiency, and excellence, as well as overseeing engineering and supply chain management. Additionally, the Presidents of StandardAero's Engine Services and Component Repair Services divisions will report directly to her. Ernzen will closely monitor the company's overall business performance. She succeeds Kerry O'Sullivan, who is retiring, and will be based at StandardAero's headquarters in Scottsdale, Arizona.

Before joining StandardAero, Ernzen served as the President of Naval Power at Raytheon Technologies. In this role, she oversaw a $6 billion division that managed programs supporting the U.S. Military and its global allies, encompassing a comprehensive range of Raytheon's offerings. Her responsibilities included managing a complex portfolio across all phases of the life cycle. With over 25 years of experience in the aerospace and defense industry, Ernzen has held significant positions at Cessna, Hawker Beechcraft, and Raytheon/RTX Corporation. She is a seasoned executive renowned for her expertise and leadership in this sector.

Trained as an aerospace engineer, Ernzen began her career in general aviation, concentrating on manufacturing operations, aftermarket services, and technical support. As her career progressed, she took on increasingly senior executive roles in operations and general management, serving the military, defense, and space markets.

Russell Ford, Chairman and CEO, said "Kim's demonstrated business success, broad technical, program management and executive leadership experience – along with her knowledge and depth in the aerospace industry – gives her the experience to have significant impact in her role at StandardAero. We are pleased and fortunate to bring her onto our team and I look forward to her contributions driving continued operational and business improvements as well as growth for StandardAero."

Ernzen holds a Bachelor of Science degree in Aerospace Engineering, a Master of Science degree in Aeronautical Engineering, and an MBA, all from Wichita State University. Furthermore, she completed Raytheon's Executive Leadership, Engineering Leadership Development, and Principles of Leadership programs. She is also a recipient of the prestigious Raytheon CEO award ■

Jettainer names Dr. Jan-Wilhelm Breithaupt as new CEO

With a fleet of over 100,000 Unit Load Devices (ULDs) spread across 500 locations worldwide, Jettainer boasts the world's most efficient ULD fleet.

Dr. Jan-Wilhelm Breithaupt, an accomplished airfreight expert with a doctorate in production logistics, has over 20 years of experience driving industry-wide digital transformation projects and process improvement initiatives. Within the Lufthansa Group, he held various positions and most recently served as head of global customer service and handling management at Lufthansa Cargo. In this capacity, he spearheaded the implementation of digital services for handling, including the electronic Air Waybill, and collaborated with the International Air Transport Association (IATA) and the Digital Test Field Air Cargo on advancing the ONE Record initiative, aimed at standardizing data models to enhance collaboration across the supply chain.

Thomas Sonntag stated "Jettainer will be well-positioned for success under Dr Breithaupt's leadership. I am very pleased to hand over to an industry leader with deep expertise in ULD management from the customer's perspective. His professional focus on digitalization and customer service will ensure Jettainer continues its path of sustainable growth,"

With a fleet of over 100,000 Unit Load Devices (ULDs) spread across 500 locations worldwide, Jettainer boasts the world's most efficient ULD fleet. Leveraging a distinctive blend of specialized teams and cutting-edge IT infrastructure incorporating big data and artificial intelligence, the company ensures precise steering, positioning, maintenance, and repair operations, guaranteeing 100% availability of containers and pallets. Complementing its global operations, Jettainer maintains a robust partnership network and an independent repair setup strategically located near customer processes, thereby enhancing its local presence and comprehensive service offerings.

Dr Breithaupt said "I appreciate Thomas Sonntag's dedication and success in growing Jettainer during challenging times for the aviation industry. I wish him the very best in his future endeavors. I am honored to take on this role and look forward to leading Jettainer into its next phase of innovation and excellence. Together with a great global team and international partners, we will continue to drive forward digital transformation and enhance our services for our global customers."

Jettainer, the global leader in Unit Load Device (ULD) management services, boasts a fleet of over 100,000 ULDs distributed across 500 locations worldwide, making it the operator of the world's most efficient ULD fleet. Jettainer GmbH operates as a wholly-owned subsidiary of Lufthansa Cargo AG ■

International CALENDAR

2024-2025

Date	Event	Venue
16 – 22 June 2024	Paris Air Show	Le Bourget Exhibition Centre
26 – 27 June 2024	MRO BEER	Vilnius, Lithuania
01 – 03 July 2024	AEROMART	Hyderabad, India
03 – 05 Sept 2024	Egypt International Airshow 2024	Egypt
10 – 11 Sept 2024	AeroEngines Europe	Amsterdam, The Netherlands
08 – 10 Oct 2024	World Aviation Festival 2024	RAI, Amsterdam
04 – 06 Sept 2024	Inter Airport China	Beijing, China
24 – 26 Sept 2024	MRO Asia-Pacific	Singapore
22 – 24 Oct 2024	MRO Europe	Barcelona, Spain
29 – 31 Oct 2024	Air Expo Abu Dhabi	Abu Dhabi, UAE
12 – 14 Nov 2024	TIACA Air Cargo Forum	Miami, FL
13 – 14 Nov 2024	MRO Australia	Brisbane, Australia
19 – 20 Nov 2024	Aerospace Tech Week Americas	Atlanta, USA
19 – 21 Nov 2024	Air Expo Abu Dhabi 2024	Abu Dhabi, UAE
10 – 12 Dec 2024	MEBAA SHOW 2024	DWC, Dubai
10 – 11 Feb 2025	MRO Middle East 2025	Dubai, UAE
25 – 27 March 2025	INTER AIRPORT SOUTHEAST ASIA (IASEA)	Singapore
25 – 26 March 2025	MRO XPO INDIA 2025	New Delhi, India
25 – 26 March 2025	AIRCRAFT INTERIORS INDIA 2025	New Delhi, India
26 – 27 March 2025	MRO South Asia Summit 2025	New Delhi, India

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