

Weekly Aviation Headline News

WORLD NEWS

LATAM Cargo boosts Brazil-Europe connectivity

LATAM Cargo has inaugurated a new cargo route from Amsterdam, the Netherlands, to Curitiba, Brazil, aimed at strengthening connectivity between Europe and South America while reducing transportation time through a more direct alternative and providing enhanced capacity. LATAM now offers a direct service to ship their cargo to the Brazilian city without the need for intermediate stops, thanks to the flexibility offered by its fleet of Boeing 767 freighters. LATAM Cargo Group boasts the most extensive cargo operation in the region, connecting to a total of 156 destinations that bridge South America with the rest of the world.

Saudia launches new recycling initiative

Saudia and PepsiCo have signed a Memorandum of Understanding (MoU) to implement a programme that collects recyclable material on-board Saudia flights and divert them from landfill, as part of a long-term sustainability plan. Moreover, the two sides will develop joint programmes to raise awareness among Saudia guests regarding the importance of sorting, collecting, and recycling operations, as well as their contribution to supporting the Saudi Green Initiative (SGI), aimed at reducing carbon emissions and pollution, by driving circularity.

Air Canada signs content agreement with Travelport

Travelport and Air Canada have announced they have renewed their content distribution agreement, which includes New Distribution Capability (NDC) content and servicing. With this agreement, Travelport-connected agencies worldwide will continue to have access to the widest range of products and ancillaries from Air Canada, along with superior servicing capabilities. As Travelport delivers retail-ready content from the carrier, including NDC content, agency customers will be able to easily search, view and compare Air Canada's dynamic offers all in one place.



New tests will assess how SAF affects the characteristics of contrails.

© Boeing

Transitioning to alternative fuels

The opportunities and challenges

The aviation industry is currently pursuing several technological solutions, such as sustainable aviation fuel (SAF) and alternative propulsion technologies, to achieve the net zero goal by 2050. It is a monumental task as the industry is classified as one of the most difficult sectors to decarbonise because of significant technological hurdles and the heavy investment required for the transformation, according to a new report by DBRS Morningstar.

The report says the demand for air travel will continue to pose considerable challenges to the aviation industry as the number of passengers is expected to more than double by 2050 from around 4 billion¹ in 2019. In the absence of technological interventions, the sector will not be able to decarbonise without a drastic decline in air passenger traffic. According to the World Economic

Forum (WEF), by 2050, 62% to 79% of global aircraft fleets will remain conventional aircraft. Hydrogen-powered aircraft (powered primarily by hydrogen fuel cells and, to a lesser extent, hydrogen combustion) will play an important role in reducing carbon emissions. The

“If we continue to take meaningful actions, I’m confident we’ll achieve a more sustainable aerospace future.”

Chris Raymond, Boeing Chief Sustainability Officer

WEF projects that, by 2050, 16% to 27% of all aircraft globally will be powered by hydrogen fuel cells, 4% to 5% by battery electric, and 1% to 6% by hydrogen combustion. Based on these projections, the amount of green energy required to power these new-generation aircraft, in particular the hydrogen-powered aircraft, will be significant.

In the meantime, Boeing, NASA AND United have collaborated to

measure how SAF affects contrails and non-carbon emissions, in addition to reducing the fuel's life cycle climate impact. According to Boeing, the researchers aim to understand how advanced fuels, engine combustor designs and other technologies may reduce at-

mospheric warming. For example, tests will assess how SAF affects the characteristics of contrails, the persistent condensation trails produced when aircraft

fly through cold, humid air. While their full impact is not yet understood, some research has suggested certain contrails can trap heat in the atmosphere.

“We are honoured to collaborate with NASA, United Airlines, and other valued partners on research that will strengthen the industry's understanding of the benefits of SAF beyond reducing carbon emis-

Continued on page 2

...continued from page 1

sions,” said Boeing Chief Sustainability Officer Chris Raymond. “We’ve solved hard problems before, and if we continue to take meaningful actions, I’m confident we’ll achieve a more

sustainable aerospace future, together.” United Chief Sustainability Officer Lauren Riley said this collaboration between Boeing, NASA and United had the potential to not

only better understand contrails but to provide the full scope of what the transition to SAF can provide beyond greenhouse-gas reductions.

AIRCRAFT & ENGINE NEWS

Avolon and Cathay Group sign agreement on sale-and-leaseback of Airbus aircraft

Global aviation finance company Avolon has agreed the sale-and-leaseback of nine new Airbus A320neo-family aircraft with the Cathay Group, a leading Asian airline group. The aircraft are scheduled for delivery in 2026 and 2027 and the transaction comprises a mix of A321neos and A320neos, adding new-technology aircraft to support the Cathay Group’s long-term commitment to growing connectivity at its home hub in Hong Kong. A320neo-family aircraft deliver a 20% fuel savings and CO2 reduction compared to previous-generation Airbus A320 aircraft. The A321neo is the extended version of this aircraft type, capable of carrying up to 244 passengers and with a range of 7,400km. Avolon has 101 A320neo-family aircraft in its fleet, with a significant orderbook pipeline for a further 192 of this aircraft type as of September 30, 2023. The Cathay Group currently flies to more than 75 passenger and cargo destinations worldwide, serving an additional 160 destinations through codeshare agreements, and has a fleet of 225 aircraft as of June 30, 2023.

Angola’s national airline TAAG adds four 787 Dreamliners to fleet

African carrier TAAG Angola Airlines is adding the Boeing 787 Dreamliner to its fleet with an order for four of the wide-body jets. “Our goal is to work with the best manufacturers in the world towards a multi-type of fleet, in order to ensure we have the appropriate airplanes for each flight typology, namely our intercontinental connections,” said Eduardo Fairen, CEO of TAAG Angola Airlines. “The 787 option suits our intent for modern, size-wise and efficient equipment, able to progressively replace our current wide-body fleet, and provide our customers with an improved flight experience.” TAAG Angola Airlines currently flies five 777-300ER (Extended Range) jets, three 777-200ERs and seven 737-700s to 12 destinations across Africa, Europe, South America and China. Boeing’s Commercial Market Outlook for Africa projects that the continent will need 1,025 airplanes over the next two decades. Overall African air traffic growth is forecast at 7.4%, the third-highest among global regions and above the global average growth of 6.1%.

Orders and deliveries – Boeing and Airbus

Airbus v Boeing: Orders and Deliveries

September 2023 YTD

Airbus			Boeing		
Type	Orders	Deliveries	Type	Orders	Deliveries
A220	33	41	737	478	286
A320 Family	1052	391	747	0	1
A330	35	20	767	15	17
A350	121	36	777	6	17
A380	0	0	787	225	50
Total	1241	488	Total	724	371

Source: Airbus

Source: Boeing

Airbus generated 23 orders in September including 13 A321 neos from LATAM and 10 A350s from Turkish Airlines. 55 aircraft were delivered to 34 operators.

Boeing booked 224 orders during the month including 150 737 MAXs from Ryanair and 50 787-9s heading to United Airlines.

Luxair signs firm order for four Embraer E195-E2 jets

Luxair, the official airline of the Grand Duchy of Luxembourg, has confirmed an order for four E195-E2 jets from Embraer. These aircraft will serve as a valuable addition to Luxair’s recent procurement of larger narrow-body planes. The order encompasses four E195-E2s, accompanied by two additional options and three purchase rights for potential future acquisitions.

The conversion capability to E190-E2 aircraft is also part of the package, allowing for flexibility as needed. The first E195-E2 is expected to be delivered in the fourth quarter of 2025. Gilles Feith, CEO of Luxair, emphasised the airline’s ongoing commitment to advancing and securing its long-term success. He pointed out that these state-of-the-art aircraft underline the airline’s dedication to sustainability and passenger well-being. Notably, the E195-E2 stands out in the regional aircraft market for its exceptional qualities, boasting the lowest levels of noise and fuel consumption. Its spacious and tranquil cabin, along with ample overhead storage, will significantly enhance the travel experience for Luxair passengers. In summary, the E195-E2 perfectly aligns with the carrier’s objectives and the needs of its passengers. Martyn Holmes, CCO of Embraer Commercial Aviation, welcomed Luxair back into the Embraer family, highlighting its past collaboration involving ERJ-145 and Emb-120 aircraft. He underscored the E2’s suitability for the airline’s operations and ambitions, serving as an ideal complement to their existing and forthcoming fleet. This strategic move ensures the highest level of fleet and network optimisation for the carrier in the long run. The E2’s unique attributes, such as its cutting-edge technology, reduced noise levels, and environmental responsibility, empower airlines to pursue both growth and sustainability goals simultaneously.



E195-E2 jet in Luxair livery

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AIRCRAFT & ENGINE NEWS

3TOP acquires one Airbus A320-233 aircraft

3TOP Aviation Services (3TOP), a fast-growing aviation asset management company specialising in airframe, engine, and general commercial aviation aftermarket inventory

support solutions, has reported the acquisition of an Airbus A320-233 aircraft, ex-Avianca. The aircraft was ferried to eCube's Coolidge facility in Arizona, USA for dismantling. The associated V2527-A5 engines will be used to support

3TOP's strategic customer requirements. Chris Emechete, CEO of 3TOP, commented on the acquisition: "We're excited to complete the purchase as we continue to grow our narrow-body asset portfolio."

Airbus Helicopters successfully tests electric flight control system



Airbus Helicopters' demonstrator FlightLab has successfully tested an electric flight control system © Airbus Helicopters

Airbus Helicopters' demonstrator FlightLab has successfully tested an electric flight control system in preparation of a new human machine interface (HMI) that will equip CityAirbus NextGen, Airbus' eVTOL prototype. This milestone represents an important step towards ushering in a new generation of electric-powered urban air mobility aircraft. The pilot controls have been considerably simplified thanks to the enhanced piloting assistance provided by the electric flight control system. Marking a first in the helicopter industry, one single piloting stick replaces the three conventional pilot controls (cyclic, pedals, collective) and is able to control all aircraft axes. Using the single stick, the pilot is able to perform all manoeuvres: take-off and landing, climb, descent, acceleration, deceleration, turn and approach. The single stick takes up less space, offers improved visibility to the pilot and is combined with a revised HMI which uses simple displays, providing a selection of information specifically tailored to eVTOLs. "From the start, we designed this system

considering every certification parameter in mind as it will be a big step forward in validating the design of our urban air mobility eVTOL, CityAirbus NextGen. The advantage of an electric flight control system is enormous, especially when it comes to reducing pilot workload and ultimately enhancing mission safety. It is also a great example of how our demonstrators are used to mature the techno-bricks necessary to prepare the future of vertical flight," says Tomasz Kryszinski, Head of Research and Innovation at Airbus Helicopters. After the success of the flight test campaign Airbus Helicopters is working on finalising the details of this new system before new tests are conducted in the framework of Vertex, a project conducted in partnership with Airbus UpNext that will advance autonomy even further by managing navigation and simplifying mission preparation.

ATR reaches key milestone for STOL programme

On the occasion of the European Regions Airline Association General Assembly, Pratt & Whitney Canada and ATR have announced the certification of the PW127XT-L engine by Transport Canada. This engine variant offers increased performance to match the requirements of ATR's future short-take-off and landing (STOL) version, the ATR 42-600S. This certification is a key milestone in the programme development and an important step towards increasing regional connectivity and airport accessibility across the globe. The ATR 42-600S will reduce take-off and landing distances down to just 800 metres in standard flight conditions. It will be able to access 1,000 airports globally with short runways, providing local populations with a greater, quicker, more comfortable and low-emission access to the global economy, healthcare, education and culture, while creating new business opportunities for airlines. "This certification is a significant milestone for the ATR 42-600S programme, as modifications to the engines are part of the major technical changes we are bringing to the aircraft, in addition to the rudder and avionics, with a huge influence on take-off performance" said Daniel Cuchet, ATR's SVP Engineering. "The PW127XT-L offers the same turbomachinery as the existing PW127XT-M, and the engine electronic control has been adapted to offer better versatility and increased performance. This great achievement comes as a reward after many months of hard work and constant collaboration between the ATR and Pratt & Whitney Canada teams." Validation of the engine modification by EASA is scheduled before the end of the year. The integration of the modified engine with the other aircraft systems will become ATR's main focus moving forward, targeting an entry into service in 2025. ATR has already received over 20 commitments for the ATR 42-600S and sees a lot of potential for this aircraft variant in several regions of the globe, including Europe, with Portugal, Greece, Iceland, Italy and Norway as key areas of interest.



ATR 42-600S

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MRO & PRODUCTION NEWS

Fokker Services Group signs Albastar as launch customer of B737NG nose-to-tail programme



Albastar becomes the launch customer of FSG's Boeing 737NG nose-to-tail (NTT) programme

© Fokker Services Group

Fokker Services Group (FSG) - a global leader in aircraft maintenance, modifications, completions, and conversions - and AlbaStar S.A. (AlbaStar), an on-demand flight services provider for tour operators based in Spain, have entered into a component support programme for the airline's fleet of five Boeing 737NG aircraft. With this programme, AlbaStar officially becomes the launching customer of FSG's Boeing 737NG nose-to-tail (NTT) component maintenance and availability programme. FSG will service a wide range of components of the carrier's fleet of Boeing 737 NGs. This includes IDGs, engine accessories, hydraulic actuators, valves, cockpit controls, and instruments. Engaging in this NTT agreement represents a unique opportunity for the airline to focus on its core business, while ensuring continued competitive operation, as they delegate the responsibilities of component availability and maintenance to FSG. FSG's track record in NTT programmes dates back to 1992, when the company developed the first component maintenance and availability programme to support Fokker operators. Over time, the programme expanded to include the Dash-8 and CRJ series. At the same time FSG has expanded its in-house repair capabilities with the ultimate goal to reach up to 70% for the Boeing B737NG platform. As a result, expanding such expertise to a full nose-to-tail programme is a natural evolution in the company's growth roadmap, ultimately maintaining outstanding control over costs, turnaround times and reliability.

Ampricus secures volume purchase order from premier eVTOL OEM



Ampricus has secured a purchase order from an eVTOL manufacturer for custom silicon anode cells
 © Ampricus Technologies

Ampricus Technologies (Ampricus), a leader in next-generation lithium-ion batteries with its Silicon Anode Platform, has exited technical engagement and moved into internal qualification, securing a purchase order from an eVTOL (electric vertical take-off and landing) manufacturer for custom silicon anode cells. Ampricus' advanced cells now serve all major segments of the growing aviation market for electric mobility. The eVTOL manufacturer strategically selected Ampricus' state-of-the-art cells to expand flight range and accelerate time-to-market. The custom cells are based on Ampricus' ultra-high-power, high-energy lithium-ion batteries announced in August. Leveraging Ampricus' advanced material system expertise, the 400-Wh/kg cell is capable of an impressive continuous discharge rate of 10C. The new cell brings unprecedented benefits to the eVTOL industry, providing unmatched propulsion power and energy to meet the rigorous demands during take-off, cruise and landing without sacrificing performance. In addition, the new ultra-high-power cell features ultra-fast charging (UFC) capabilities, allowing it to reach 80%

charge in six minutes or less, facilitating expanded flight operations with swift turn-around times. The agreement is contingent upon the successful qualification of sample custom cells to be delivered later this year. Following successful qualification of the cells, the eVTOL manufacturer would receive an increased number of custom samples in early 2024 for its demonstrator integration. In parallel with the integration, Ampricus expects to engage in discussion for a long-term volume purchase agreement to support the eVTOL manufacturer's pre-production units in 2025 and beyond. The future volume purchases would be supported by Ampricus' Brighton, Colorado-based gigawatt-hour scale factory.

MRO & PRODUCTION NEWS

Western Jet Aviation certified as FAA repair station

Western Jet Aviation, a StandardAero company, has received certification as an FAA Part 145 Repair Station at Miami-Opa Locka Executive Airport (OPF). The facility will provide maintenance and avionics services for large-cabin business aviation aircraft in Florida. Western Jet Aviation was acquired by StandardAero in February 2023, and is well-known for its facility in Van Nuys, California, which is one of the largest independent business jet maintenance providers specialising in Gulfstream® aircraft services including heavy airframe maintenance, structural repair, engine line maintenance, avionics installations, engineering services and interior soft good upgrades. According to Katie Higgins, VP/GM of Van Nuys and Opa-locka locations, expanding into the southern Florida region allows the company to also extend support to existing customers who may require service on the east coast when they are away from southern California. StandardAero's Western Jet Aviation locations in Van Nuys and Opa-locka complement other StandardAero business aviation MRO sites in Springfield, Illinois, Dallas and Houston, Texas, Augusta, Georgia, and Gosport, UK. The company also has regional service centres located in the U.S, Brazil, U.K., South Africa and Singapore in addition to Mobile Service Teams around the world to support wherever operators fly.



© Western Jet Aviation

DLR and Embraer extend cooperation in aviation research



Prof Anke Kaysser-Pyzalla and Maurílio Albanese Novaes Júnior at the signing of the MoU in Brazil
© Embraer

Embraer and the German aerospace centre DLR (Deutsches Zentrum für Luft- und Raumfahrt) have signed a Memorandum of Understanding (MoU) for a collaboration regarding precompetitive technology research and development activities. The partners will evaluate the possibility of establishing a future cooperation on a wide range of activities, including aircraft design, flight systems, flight physics, system architectures, flight tests, wind tunnel experiments, structures and materials and security. "We are delighted to extend our collaboration with DLR and continue our team's longstanding relationship. This agreement represents another key step in our technology journey toward the future of a sustainable aviation in partnership with global research centres", said Maurílio Albanese Novaes Júnior, head of Research & Technology Development at Embraer. "Following our long-standing cooperation, we would like to further intensify our joint activities. International cooperation is essential if we are to achieve our goal of climate-compatible aviation," emphasises Prof Anke Kaysser-Pyzalla, Chair of the DLR Executive Board, in São José dos Campos, Brazil. "Together with our partner Embraer, we are addressing issues such as aerodynamics and flight physics, as well as conducting studies in the wind tunnel and flight tests." DLR and Embraer have already been

cooperating on individual projects since 2001 with relevant results in the field of ice formation on aircraft (aircraft dynamic modelling with accreted ice), aerodynamics modelling (online parameter identification for integrated aerodynamic modelling) and aeroelasticity. In 2017, collaboration was intensified with focus on sustainability matters, such as reduction of noise and minimising the impact of aviation on the climate. The signature took place during a visit to Embraer facilities in São José dos Campos, Brazil, of a high-level delegation from DLR, led by Prof Kaysser-Pyzalla.

MRO & PRODUCTION NEWS

GA Telesis adds another Flight Solutions Group office in Türkiye

GA Telesis (GAT), the pioneering leader in integrated aviation services, has announced its continued expansion in the Eurasia Region with the addition of another Flight Solution Group (FSG) office in Türkiye. Based in Antalya, Türkiye, the new office marks a significant milestone in the GAT's global expansion efforts. This strategic move demonstrates the Flight Solution Group's commitment to providing top-tier aviation solutions paired with a regional presence to its customers worldwide. The new office in Antalya will focus not only on customer care and repair management for FSG but also technical support to customers within Türkiye and worldwide. "Since our inception in 2014, our model of support in the Eurasia region has been a resounding success for our customer base," said Mehmet Gokhan Dogan, SVP and Managing Director of Eurasia, adding that: "With the growth of fleets in Eurasia, specifically in Türkiye, we have been developing a plan for a more strategic and technical presence outside of Istanbul and in the Antalya region. Today's announcement reaffirms our commitment to those regional customers, supporting their growth plans together."

FINANCIAL NEWS

Finnair to hold Extraordinary General Meeting to approve €600 million share offering

Finnair has unveiled its plans to convene an Extraordinary General Meeting (EGM) with the purpose of seeking authorisation from its shareholders for a significant share issuance (the offering). This capital raising initiative aims to generate gross proceeds of up to €600 million and will include pre-emptive subscription rights for the company's existing shareholders. The successful execution of the offering is contingent upon the approval of the company's shareholders at the EGM scheduled for October 27, 2023. Completion of the Offering is anticipated in the fourth quarter of 2023, subject to prevailing market conditions. The proceeds derived from the offering will play a crucial role in fortifying Finnair's financial position and bolstering its balance sheet. This strategic move is in line with the company's overarching objectives, including the effective management of outstanding financial obligations, the pursuit of sustainable and profitable growth and the capacity to undertake future investments. The offering has been strategically designed to enable Finnair to achieve key financial milestones, such as attaining a comparable operating profit margin of six percent by the close of 2025, maintaining a net-debt-to-comparable-EBITDA ratio of 1-2x by the close of 2025 and facilitating shareholder distributions from 2025 onward (based on 2024 earnings). Additionally,

Ontic acquires manufacture and support of Honeywell's TRAS product line

Ontic, a leading licensor and manufacturer of complex engineered parts for the global aerospace and defence industries, has signed an exclusive license agreement with Honeywell to take over production and repair of its flight-critical Thrust Reverser Actuation System (TRAS) product line. Used primarily upon landing to slow aircraft by reversing the direction of the engine thrust, the system supports both the CF6 and CF34 engines (GE) and is installed on over 3,000 aircraft with long in-service lifespans ahead. This system is a strong fit for the Ontic portfolio, enabling them to leverage existing skilled technicians and technical engineering competence from their UK facility in Staverton, near Cheltenham. Crucially, this license addition builds on Ontic's complex hydraulic systems knowledge, adding a new pneumatic product competence in its UK operations. Bringing the TRAS system to its Staverton site will create exciting new opportunities to join Ontic's growing team and they are actively recruiting to support the expansion of this facility. Gareth Blackbird, Vice President and Chief Commercial Officer at Ontic, commented: "This represents a significant license investment for Ontic – our biggest to date – and we are excited to expand the experienced team capabilities and specialised equipment at our Staverton site. The addition of this pneumatic and actuation product is well suited to the highly skilled technicians and engineers that form our Ontic team in the UK and will continue to create career opportunities in the local area."



Ontic has acquired Honeywell's Thrust Reverser Actuation System (TRAS) product line
© Ontic

Airbus Helicopters to use 3-D printers from TRUMPF to manufacture components



TruPrint 3000 with control unit

© TRUMPF

printing helps reduce the weight of components," said Helmut Färber, Site Manager of Airbus Helicopters in Donauwörth. That helps aircraft operators reduce fuel consumption and thus lower their costs. It can also help reduce CO2 emissions in flight. Airbus Helicopters will use the 3-D printing process to produce components for the electric-powered CityAirbus, the experimental high-speed Racer helicopter and the Airbus A350 and A320 passenger aircraft, among others. "With its manufacturing know-how, TRUMPF is a reliable partner to the aviation industry worldwide. Our 3-D printing systems are a key technology on the path to sustainable flying and they reduce dependency on long supply chains," said Richard Bannmüller, CEO TRUMPF Laser and System Technology. Additive manufacturing allows entire assemblies to be printed as one component. This saves weight. At the same time, the components are very stable and meet the strict safety requirements of the aviation industry. Airbus Helicopters uses 3-D printers from TRUMPF to manufacture structural components made of titanium and high-strength aluminium. "Additive manufacturing saves expensive raw material and can lower production costs in the aviation industry. 3-D printers only use the material that designers actually need for their components and that ends up taking off in the aircraft," said Bannmüller. 3-D printing users can also reuse unused metal powder. Conventional manufacturing processes, on the other hand, require up to ten-times more raw material than the final product. Therefore, when milling or chipping, much of the raw material ends up being waste.

FINANCIAL NEWS

the net proceeds from the offering will be directed towards settling the portion of the €400 million capital loan that remains unpaid following the Offering, along with accrued interest. Furthermore, the redemption of the company's capital securities totalling €200 million (hybrid bond) on September 1, 2023, is expected to contribute to a sustainable balance sheet while substantially reducing the company's financing costs. Importantly, Finnair's primary shareholders are fully supportive of the offering. The State of Finland, representing approximately 55.8% of the company's shares (including treasury shares), has indicated its backing for the proposal to the EGM and intends to exercise its pro rata share of new shares through allocated subscription rights. The State of Finland intends to offset the subscription price of the shares against an equivalent amount of the principal of the capital loan. Additionally, other major shareholders, including Varma Mutual Pension Insurance Company, Elo Mutual Pension Insurance Company and Ilmarinen Mutual Pension Insurance Company (collectively representing approximately 3.4% of the company's shares, including treasury shares), have made irrevocable commitments to support the proposal at the EGM and to subscribe for their respective pro rata shares of the Offering, subject to customary conditions. The remaining portion of the offering, approximately 40.7%, is fully underwritten on a standby basis, subject to customary terms and conditions. Deutsche Bank Aktiengesellschaft and Nordea Bank Abp have been appointed as the joint global coordinators, lead managers and underwriters of the offering. (£1.00 = €1.16 at time of publication).

BOC Aviation secures US\$1.375 billion club term loan with 16 global banks

BOC Aviation, a prominent global aircraft operating leasing company, has successfully closed a substantial club term loan transaction, amounting to US\$1.375 billion (£1.127 billion). This significant milestone marks the largest unsecured term loan signed by the company since its establishment in 1993. The transaction involves the collaboration of 16 leading banks hailing from various regions, including Asia, Europe, North America and the Middle East. Citigroup Global Markets Singapore played a pivotal role as the Global Coordinator and Documentation Agent for this endeavour, while The Hongkong and Shanghai Banking Corporation Limited, Singapore branch, assumed the role of facility agent for all three facilities involved. The loan's proceeds are earmarked for general working capital requirements and the refinancing of existing debts. BOC Aviation boasts a robust fleet of 652 aircraft, comprising owned, managed and ordered units. As of June 30, 2023, its aircraft fleet is leased to 91 airlines across 42 countries and regions worldwide. The company, headquartered

MRO & PRODUCTION NEWS

Lufthansa Technik provides aircraft transition services for CAL

Lufthansa Technik AG (LHT) has been awarded a contract from China Airlines (CAL) for aircraft transition services. The Taiwan-based carrier and the leading MRO provider have recently signed a three-year contract covering the transition of 12 Boeing 737-800s and 17 Airbus A330s of China Airlines' leased aircraft. A total of 29 projects will take place in multiple locations across the Asia-Pacific region. With over 400 aircraft transition projects all over the world, Lufthansa



LHT will provide aircraft transition services for 29 of CAL's aircraft © Airbus

Technik holds years of experience in this field. Lufthansa Technik's Aircraft Transition Services are designed to make this extensive and complex process easier and more comfortable for the operators. From the initial aircraft assessment and long-term lease asset management all the way to the lease return; the Aircraft Transition Services team supports in every stage of the lease period. Jason Tsai, Vice President Engineering Division Operations of China Airlines, said: "The 29 aircraft come from 11 different leasing companies. That's why we need a reliable partner who knows the business best. From our experience, we know that Lufthansa Technik fulfils both criteria." For China Airlines it's not the first time collaborating with Lufthansa Technik, the cooperation has existed for many years. In 2022 both companies extended their Total Component Support (TCS) contract another six years minimum.

Embraer unveils auto-throttle upgrade for Phenom 300E



Phenom 300E auto-throttle

© Embraer

Embraer has unveiled a new feature to the Phenom 300E aircraft – an advanced auto-throttle, set to revolutionise the cockpit for single pilots. The aircraft, already known for its highly advanced prodigy-touch based on Garmin G3000, will now offer even more in terms of operational capabilities. This innovative auto-throttle system brings automation and intuitiveness to the forefront, making flight

control a breeze during various stages of the journey. Passengers will revel in the increased comfort within the cabin. Scheduled to be available as an optional feature for new Phenom 300E aircraft in the third quarter of 2024, this enhancement is set to elevate the flying experience. Embraer is also committed to supporting existing aircraft with the release of a service bulletin (SB) in the fourth quarter of 2024, specifically for those that have incorporated factory provisions. With this remarkable advancement, the Phenom 300 series maintains its position as a leader in performance, technology, and passenger comfort. Having held the title of the world's best-selling light jet for 11 consecutive years, it remains the most frequently flown private jet in the USA, with over 700 units in operation and an impressive tally of over two million flight hours. The aircraft boasts a cruising speed of Mach 0.80 and offers unparalleled avionics, including the pioneering Runway Overrun Awareness and Alerting System (ROAAS), Emergency Descent Mode, coupled go-around, and much more.

FINANCIAL NEWS

in Singapore, also maintains offices in Dublin, London, New York, and Tianjin, solidifying its global presence in the aviation leasing industry.

Virgin Australia returns to profitability

Virgin Australia has returned to profitability for the first time in 11 years, reporting statutory NPAT of AU\$129 million. Revenue more than doubled compared to the prior year to AU\$5 billion as the company responded strongly to increased customer demand following COVID-19. Underlying EBIT was AU\$439 million, representing a margin of 8.8%. Virgin Australia's Airline business (which includes domestic, international, regional and charter flying) recorded revenue of AU\$4,873 million, an increase of 126% due to increased flying activity. Underlying EBIT was AU\$362 million, a margin of 7.4%. Loyalty business Velocity recorded revenue of AU\$330 million, an increase of 68%, with strong member growth through the year, reaching a record 11.5 million members. Underlying EBIT of AU\$77 million represented a margin of 23.4%. Record travel demand for leisure and the return of SME customers to pre-COVID levels alongside a slower but important

MILITARY AND DEFENCE

Airbus starts construction for new A400M maintenance centre

Airbus has officially launched the construction of the new A400M maintenance centre in Wunstorf, Germany. The traditional ground-breaking ceremony on the site at Wunstorf Air Base, the base for the German Air Force's A400M military transport aircraft, was held by Airbus Defence and Space CEO Michael Schöellhorn together with high-ranking representatives from politics and the German Armed Forces. Around 300 employees will service and maintain A400M aircraft at the new maintenance centre from mid-2027. "The A400M has been in reliable service for the German Armed Forces for over ten years. To keep it that way, the new Airbus A400M Maintenance Centre Wunstorf is an important step forward: here, we will deepen the cooperation with the German Armed Forces and further improve the availability and operational capability of the A400M. The new maintenance centre will sustainably strengthen the successful cooperation between industry and the German Air Force," said Mike Schoellhorn, CEO of Airbus Defence and Space. The A400M maintenance centre is being built right next to the air base of Air Transport Squadron 62 (LTG 62) in Wunstorf. The costs for the centre are in the low three-digit-million range. Airbus will create 300 new jobs at the A400M maintenance centre in Wunstorf. The search is mainly for aeronautical engineering personnel. According to current planning and depending on the progress of construction, the increase in personnel is to begin gradually from 2025. Currently, about 20 employees of the construction companies are on site; during peak construction periods, more than 500 employees may be working there. Completion of the A400M maintenance centre is scheduled for the end of 2026. Entry-into-service is scheduled for mid-2027 after approval by the German Armed Forces Airworthiness Office.



Ground-breaking for Airbus' new A400M maintenance centre in Wunstorf, Germany © Airbus



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FINANCIAL NEWS

return of corporate travellers, enabled significant revenue recovery. Efficiency initiatives delivered a significant increase in profitability in spite of higher fuel prices. Virgin Australia has continued to see healthy demand as customers prioritise travel in the face of cost-of-living pressure. Virgin Australia's CEO Jayne Hrdlicka commented: "These results are an important milestone for Virgin Australia. It has been 11 years since Virgin Australia returned a profit and our results signal that the transformation of Virgin Australia is progressing well. We have a long-term commitment to transformation and are only part-way through this multi-year journey. By creating a systemically lower cost base and a conservative balance sheet as well as investing heavily in technology and our frontline, we are well positioned for the future." She added: "Our investment in frontline transformation continues and is designed to boost capability, customer experience and operational efficiency. Our recent announcement of a AU\$110 million cabin upgrade, arrival of the first of our new Boeing 737-8 aircraft, market leading baggage tracking app and Rapid Rebook technology launch all help us to create experiences our guests love." (£1.00 = AU\$1.91 at time of publication).

Delta lowers profit forecast due to high fuel costs

Delta Air Lines has exceeded its quarterly earnings expectations but concerns about higher fuel expenses has led to a revision in its full-year profit outlook. The Atlanta-based carrier's earnings report coincides with indications of weakening domestic travel demand, raising questions about whether consumers are scaling back travel expenditures due to dwindling household savings, the resumption of student loan repayments and elevated interest rates. Delta CEO Ed Bastian cautioned against interpreting these developments as indicative of a broader industry trend. In an interview, he emphasized that the demand for Delta's products remains "strong," with its customer base in "very good financial health." Bastian stated, "Our domestic business is robust." According to REUTERS, the spike in fuel costs has placed significant pressure on the company's profitability. Delta now anticipates adjusted earnings in the range of US\$6 to US\$6.25 per share for the current year, a reduction from the previous estimate of US\$6 to US\$7 per share made in July. Despite the challenges, the company reported an adjusted profit of US\$2.03 per share for the third quarter, surpassing the US\$1.94 per share forecast by analysts in an LSEG survey. This performance was bolstered by a notable 35% year-on-year increase in international passenger revenue. (£1.00 = US\$1.22 at time of publication).

MILITARY AND DEFENCE

Lockheed Martin to produce MH-60R SEAHAWK for Spanish Navy



A U.S. Navy MH-60R SEAHAWK helicopter

© Lockheed Martin

Lockheed Martin has received a contract from the U.S. Navy to produce eight Sikorsky MH-60R SEAHAWK® helicopters for the Spanish Navy (Armada). Designed, built and integrated with advanced missions' systems and sensors for anti-submarine and anti-surface warfare, the future Armada MH-60R aircraft will significantly upgrade and broaden the range of maritime capabilities currently performed by its SH-60B SEAHAWK fleet. "Operational effectiveness of the MH-60R multi-mission helicopter is a direct result of ongoing investment by the U.S. Navy, Sikorsky, and our partner suppliers in the air vehicle, mission systems and sensors," said Hamid Salim, vice president, Sikorsky Maritime Systems. The Armada retired the last of 18 Sikorsky SH-3 Sea King helicopters in 2022 following deliveries that began in 1966. From 1988 to 2001, the Armada acquired 12 SH-60B aircraft, and more recently, purchased eight SH-60F SEAHAWK helicopters retired by the U.S. Navy. "The new MH-60R will upgrade mission systems and sensors of the SH-60B fleet, elevating the Armada to the highest level of anti-submarine and anti-surface warfare capability," said the Armada. "We expect a smooth transition from the SH-60B to the MH-60R." Spain's eight new MH-60R aircraft will join an operational fleet of 330 worldwide with the U.S. Navy, Australia, Denmark, Saudi Arabia and India. Aircraft deliveries to Greece and South Korea will begin in 2024. In May, the U.S. Navy announced the global MH-60R fleet had surpassed one-million flight hours.

INFORMATION TECHNOLOGY

Austrian Airlines will become the first Lufthansa Group airline to introduce the innovative and user-friendly AVIATAR Technical Logbook in its operations. The modern design of the digital solution installed on a tablet device will allow Austrian Airlines' Technical Operations to improve cooperation with pilots and maintenance teams likewise. Taking advantage of latest big data technologies, AVIATAR's Technical Logbook is building on the heritage of other digital solutions on Lufthansa Technik's digital platform. AVIATAR's Technical Logbook offers prefilled text blocks and automated input masks that capture technical issues of the aircraft during flight and on ground. It therefore replaces time-consuming manual entries into paper books and improves data quality as well as transparency. The solution works with any hardware device (e.g., tablet, smartphone or desktop computer) and provides pilots with access to aircraft status anywhere and anytime. It also offers back-up processes in case of connectivity issues. Real-time data availability, directly connected with the M&E (maintenance and engineering) system, ensures maintenance on arrival and enables a seamless pilot-to-maintenance collaboration - leading to decreased turnaround times and costs. In addition, the standardised data structure helps airlines to gain insights into trend analytics. Launched in 2017, AVIATAR is the independent platform for digital products and services developed by Lufthansa Technik. The platform offers its users digital products ranging from predictive maintenance to automated fulfilment solutions. AVIATAR combines fleet management solutions, data science and engineering expertise to provide a comprehensive range of integrated digital services and products for airlines, MRO companies, OEMs and lessors that seamlessly integrate with physical fulfilment in TechOps and beyond.



AVIATAR Technical Logbook

© LHT/Peter Isendahl

OTHER NEWS

Dutch flag carrier **KLM**, the world's oldest operating airline, is joining **Heart Aerospace's** Industry Advisory Board to provide input on the design, development and commercialisation of the Swedish company's first regional electric airplane, the ES-30. Heart Aerospace's Industry Advisory Board consists of airlines, governments, leasing companies and airports from all over the world, each representing a key part of the aviation ecosystem necessary to support the electrification of air travel. "For us it is important to support the development of zero-emission technologies and the ecosystem needed for its implementation. The decarbonisation of air travel will not happen overnight and there is no silver bullet yet. We must work together with all chain partners to come with solutions and innovations. In Heart Aerospace we have found a great partner who is – just like us - willing to pull out all the stops to achieve maximum results. The sooner we start, the sooner we will get there," said Maarten Stienen, COO at KLM. KLM, which currently serves 162 destinations worldwide, is part of one of Europe's largest airline groups, Air France- KLM, and it has put sustainability at the core of its business strategy. "With "the flying Dutchman" on our advisory board we all will benefit from KLM's extensive operational experience. You do not become the world's oldest operating airline without the ability to reinvent yourself, so we are really excited about having KLM help us shape the future," said Simon Newitt, President and Chief Commercial Officer at Heart Aerospace. Heart Aerospace is developing the ES-30, a regional electric airplane with a standard seating capacity of 30 passengers

easyJet has become the first airline to sign a contract with **Airbus** for its carbon removal initiative. Available through the Airbus Carbon Capture Offer, the technology uses Direct Air Carbon Capture and Storage (DACCS), to offer airlines worldwide carbon removal credits to advance their decarbonisation goals. DACCS technology filters and removes CO2 emissions directly from the air using high powered extraction fans. Once removed from the air, the CO2 is safely and permanently stored in underground reservoirs. CO2 emissions released into the atmosphere during aircraft operations cannot be directly eliminated at source but with DACCS, an equivalent amount can be extracted from the air. The technology is complementary to other carbon reduction technologies such as the use of sustainable aviation fuel (SAF). Thomas Haagensen, Group Markets Director at easyJet, said: "Decarbonising a hard to abate sector, such as aviation, is a huge challenge and we believe carbon removal will play an important role in addressing our residual emissions in the future, complementing other components to help us achieve our pathway to net-zero. Our ultimate aim is to achieve zero carbon emission flying and, as well as investing into important projects like direct air carbon capture technology, we are working with multiple partners – including Airbus – to accelerate the development of zero carbon emission aircraft technology." Julie Kitcher, Executive Vice President Communications, Sustainability and Corporate Affairs at Airbus, said: "easyJet is a strong advocate of decarbonisation, for its operations and the wider aviation sector. This agreement demonstrates the airline's willingness to extend its environmental commitment through Airbus' Carbon Capture Offer. Initiatives such as this one underline Airbus' commitment to decarbonisation solutions for our industry and to bringing together airlines and industry players from all sectors in order to build a sustainable aviation ecosystem." easyJet was amongst the first airlines to sign an agreement with Airbus in 2022, committing to engage in negotiations on the possible pre-purchase of verified and durable carbon removal credits. easyJet's credits will last from 2026 to 2029. The carbon removal credits will be issued by Airbus' partner **1PointFive**. Airbus' agreement with 1PointFive includes the pre-purchase of 400,000 tonnes of carbon removal credits to be delivered over four years.



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OTHER NEWS

driven by electric motors with battery derived energy. It will have a fully electric zero-emissions range of 200 kilometres, an extended hybrid range of 400 kilometres with 30 passengers and flexibility to fly up to 800 kilometres with 25 passengers, all including typical airline reserves. Heart Aerospace has a total of 250 firm orders for the ES-30, with options and purchase rights for an additional 120 planes. The company also has letters of intent for a further 91 airplanes.

Boeing has announced the opening of its Engineering and Technology Centre in Brazil, one of 15 Boeing engineering sites around the world that develop advanced technology to drive aerospace innovation. Based in São José dos Campos (SP) where the company began operations in 2014, the engineering centre is an expansion of Boeing's strategic investments in Brazil, where it employs about 500 engineers supporting current and future programmes. At an event with employees and key stakeholders, Boeing shared several new strategic investments in the country. Among them, Boeing signed a Memorandum of Understanding (MOU) with the state of São Paulo focused on aerospace technological development including support for education focused on science, technology, engineering and mathematics (STEM), promoting a joint agenda of industrialisation and innovation and enhancing and strengthening the talent pipeline throughout Brazil's aerospace ecosystem, with an emphasis on increasing diversity. With the State University of Campinas (Unicamp), Boeing announced funding to extend their sustainability partnership to develop the third phase of the SAFMaps database to understand the feasibility of the most promising inputs for SAF production in specific areas in Brazil. Boeing also announced the company's first internship programme in Brazil for students in their final year of engineering studies. Interns will apply knowledge through projects in a global and multicultural environment with mentoring from experienced professionals. The initiative is aligned with the company's global strategy to contribute to engineering excellence in countries where it operates.

Travelport, a global technology company that powers travel bookings for hundreds of thousands of travel suppliers worldwide, and **Air Canada**, Canada's flagship carrier, have renewed their content distribution agreement, which includes New Distribution Capability (NDC) content and servicing. With this agreement, Travelport-connected agencies worldwide will continue to have access to the widest range of products and ancillaries from Air Canada, along with superior servicing capabilities. As Travelport



Rendering of London Oxford Airport's new R&D Science Park
 © London Oxford Airport

London Oxford Airport has released that it will break-ground on its all-new, self-funded R&D Science Park in January 2024. This follows the successful planning application of the £48 million development, which was approved last summer. Demolition of the original buildings has already started, paving the way for the new 200,000-ft² facility, which the airport hopes will appeal

to next-gen aviation and technology businesses, along with other spinouts and start-ups from the University community. Building work will complete in time to see the first companies move in during Q4, 2024. In line with the airport's desire to achieve sustainable growth, London Oxford Airport issued a fuel supplier RFP recently, while construction of a new fuel farm, which will eventually support five tanks and 425,000 litres of fuel, was completed in 2021. It has also confirmed plans to offer sustainable aviation fuel (SAF) in 2024. One of its new airport tenants is OXCCU, a spin-off from the University of Oxford's Chemistry Department. OXCCU is developing a drop-in synthetic aviation fuel, OXEFUELTM by taking atmospheric carbon dioxide and combining it with hydrogen. Using its bespoke and unique catalysts and reactors, OXCCU plans to turn H₂ and CO₂ into long chain hydrocarbons in one simple step. Meanwhile, work has started on Oxford Airport's largest tenant, Airbus Helicopters' new 125,000-ft² facility. Featuring provision for photovoltaic (PV) power, the site, which comprises 66,000-ft² hangarage, 59,000-ft² office space and workshops, along with seven helipads, is expected to be complete by summer 2024, coinciding with Airbus Helicopters' 50-year anniversary in the UK. For several years, one corner of the airport has been earmarked by Oxford County Council, firstly as a 'Park & Ride', but more recently as an integrated 'Transport Hub.' Subject to approvals and with a nominal budget of over £20 million, this could see the combination of a Rapid Transit bus system, EV charging at large scale, e-bike hire and other ground mobility solutions, all coming together in one place. The airport sees this as an opportunity to explore further integration of that 'hub' with the provision of future air mobility offerings, however they may evolve – Advanced Air Mobility (AAM) - fixed wing air transportation and Urban Air Mobility (UAM), typically utilising electric vertical take-off and landing (eVTOL) vehicles. UAM will be big in the future, but regional air mobility will be even bigger, highlighted Darrell Swanson, Founder of EAMaven. Noting that traditional mobility has "reached its limits," the UK airport consultancy has identified 390 potential routes among 32 regional and business airports in the UK. It outlined one specific [albeit undeclared] route from London Oxford Airport which could generate £14.9 million in revenue annually. "To service demand using a nine-seater aircraft, supporting 82.5% load factor with 183,000 passengers per annum, we would need eight aircraft serving 3,600 hours of operations per annum. That's high for a traditional turboprop, but with electric aircraft we'd be able to achieve those operational hours," said Swanson. London Oxford Airport is wholly owned by the **Reuben Brothers**. Reuben Brothers' investment activities include private equity, real estate ownership and development. Businesses include shopping centres, data centres, racecourses, public houses, hotels, technology and media businesses. At the end of February 2012, the Reubens purchased the London Heliport at London Battersea, the UK's only CAA licensed heliport. The Heliport is a 22-minute helicopter ride from London Oxford Airport. London Oxford Airport has been one of the fastest growing airports for private business aviation in the United Kingdom over the last ten years.

delivers retail-ready content from the carrier, including NDC content, agency customers will be able to easily search, view and compare Air Canada's dynamic offers all in one place. Travelport and Air Canada anticipate the launch

of the airline's full NDC solution on Travelport+ in the coming months, which will include full end-to-end servicing of NDC bookings to help agencies easily manage trip changes and exchanges.

INDUSTRY PEOPLE



Angeles Campoy

• Grupo EULEN, a global leader in outsourcing in the facility services, security and aviation industries, has named **Angeles Campoy** as the new Chief Executive Officer (CEO) for the U.S.A. Based in Miami, Campoy will lead the company's operations in the region, focusing on the expansion of Grupo EULEN's presence and long-term growth strategy in the United States. Campoy brings over 20 years of experience in leading businesses, improving sales and profitability, client and employee management, and strategic business planning. In her current role at Grupo EULEN Campoy guides the company's operations in the U.S., overseeing a team of approximately 3,000 specialist professionals across Florida, New York, New Jersey, Maryland and Washington DC. Before assuming this position at Grupo EULEN, she played a significant role in the EULEN family. She served as the General Deputy Director at Grupo EULEN, leading the employee solutions business model at EULEN Flexiplan, where she led an agency dedicated to HR and employment solutions, personnel selection, outplacement, worker development and training programmes. Prior to joining Grupo EULEN, Campoy worked at The Adecco Group, starting as a Regional Director and later becoming the National Director for Consulting and Training. During her tenure, she successfully led, developed and transformed strategic businesses, even achieving a doubling of direct selection sales in Spain in 2017. She holds a Master of Business Administration (MBA) from The International Institute for Management Development, as well as another MBA with a focus on organisational leadership from INSEAD.

• The Qantas Board has announced plans for board renewal in recognition of the reputational issues facing the Group and to support restoration of trust in the company. Chairman **Richard Goyder** will retire prior to the Annual General Meeting (AGM) in late 2024. As announced in May, non-executive director **Michael L'Estrange** will retire at this year's AGM on November 3, 2023. To facilitate fur-

ther renewal, **Jacqueline Hey** and **Maxine Brenner** will retire at the Qantas half-year results in February 2024 after ten years of service. As planned, three new directors will offer themselves for election at this year's AGM (**Doug Parker**, **Dr Heather Smith** and CEO and Managing Director **Vanessa Hudson**) as well as two existing directors (**Todd Sampson** and **Belinda Hutchinson**). Once the new directors are in place, the Board is expected to have an average tenure of around three years at the 2024 AGM, providing a balance of fresh leadership with necessary continuity. The Board has initiated the process to appoint new non-executive directors in the months ahead as well as a new chairman. New committee roles will be appointed in due course. The Board has also commenced a process of independently reviewing key governance matters over the past 12 months and will share outcomes in the second quarter of calendar year 2024.



Bill Nolan

• AAR, a leading provider of aviation services to commercial and government operators, MROs, and OEMs, has announced that **Billy Nolan** has been elected to AAR's Board of Directors, effective immediately. Nolan brings more than 30 years of aviation experience across safety, operations, and regulatory affairs. He recently served as acting FAA Administrator and is currently the Chief Safety Officer at Archer Aviation, a leading air mobility company known for developing electric vertical take-off and landing (eVTOL) aircraft. While at the FAA, Nolan revamped certification requirements and airport-focused safety management systems and earlier served as the FAA's Associate Administrator for Aviation Safety. Nolan's aviation experience began during his service in the U.S. Army, where he was an airplane and helicopter pilot and a safety officer. Following his military experience, Nolan moved into commercial aviation, becoming a pilot for American Airlines. There, Nolan transitioned to managing the company's Operations Aviation Safety Action Partnership programme before assuming a Senior Manager of Flight Safety position. He transitioned to Airlines for America, where he was the Senior Vice President

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of Safety, Security, and Operations, and to Qantas Group, where he was the Executive Manager of Group Safety and Health. Nolan later joined WestJet as Vice President of Safety, Security, and Quality.

• SkyWorks Holdings (SkyWorks), a leading aviation advisory and asset management firm, has hired **Ryan Travis** as Vice President. The hire brings a seasoned industry veteran into the firm's advisory practice with the skills to lead and manage complex client engagements. Travis, who will be based in Texas, spent 16 years at American Airlines, where he rose to Managing Director of Fleet Planning and Analysis. Travis earned his Master of Business Administration from Georgetown University McDonough School of Business and a Bachelor of Arts in Political Science from the University of Colorado Boulder.

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Jet Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
A319-100	FPG Amentum	V2527M-A5	3705	2008	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A330-200	Doric	Trent 772B-60	1310	2012	Q2/2024	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 69 247559-931
A330-200 EFW	ALTAVAIR	Trent 772B-60			Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B737-800 SF	GA Telesis		27988	2000	Now	Sale / Lease		aircraft@gatelesis.com	
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	BBAM	GE90-115BL	39237	2013	Feb 2024	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
SAAB 2000	Jetstream Aviation Capital	AE2100A	031	1996	Now	Sale / Lease	Donald Kamenz	dkamenz@jetstreamavcap.com	+1 (305) 447-1920 x 115
SAAB 340B CRG	Jetstream Aviation Capital	CT7-9B	224	1990	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

Commercial Engines

AE3007Engines	Sale / Lease	Company	Contact	Email	Phone
(2) AE3007A1E	Now - Sale	Aircraft and Engine Lease Corp.		fleetmanager@aelc.aero	
CF34 Engines	Sale / Lease	Company	Contact	Email	Phone
CF34-8E5	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
CF34-10E5	Now - Lease				
CF34-8C5	Now - Lease				
(2) CF34-3A	Now - Sale	GNS	Shlomi Levi	shlomi@g-n-solutions.com	+972-52 850 8511
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CF34-10E5	Now - Sale / Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195
(1) CF34-8C5A1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120



THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines

CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaaviation.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5B4/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(3) CFM56-5C4	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-7B26/E	Now - Lease				
(1) CFM56-5B4/P	Now - Sale/Lease/Exch.	AeroDirect	Sean Miller	SMiller@aerodirect.com	+1.404.229.3723
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.				
(4) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(1) CFM56-5B4/P	Now - Sale / Lease				
(5) CFM56-5B6/P					
(2) CFM56-7B26/3	Now - Sale / Lease				
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/P	Now - Lease				
(2) CFM56-5B4/3	Now - Lease				
(2) CFM56-5B4/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
GE90 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) GE90-94B	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) GE90-94B	Now - Sale/Lease/Exch.				
		BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(5) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A26	Now - Lease				
(1) LEAP-1A33	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
PW1100G Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW1100G-JM	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) PW1521G-3	Now - Lease				
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(2) PW4168A	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) PW4168A	Q4/2022 - Sale	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493

THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
PW121	Now - Sale	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW127F	Now - Sale				
PW150A	Now - Sale / Lease				
PW127M	Now - Lease				
(1) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
Trent Engines	Sale / Lease	Company	Contact	Email	Phone
(2) Trent 772B-60	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) Trent XWB-84	Now - Sale/Lease/Exch.				
(1) Trent 556-61	Now - Sale/Lease/Exch.				
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2527-A5	Q3/2022 - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) V2533-A5	Now - Sale/Lease/Exch.				
(1) V2527-A5	Now - Sale/Lease/Exch.	AeroDirect	Sean Miller	SMiller@aerodirect.com	+1.404.229.3723
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2533-A5	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiairline.com	+1 786-785-0777
(1) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) V2527-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717

Aircraft and Engine Parts, Components and Misc. Equipment

Description		Company	Contact	Email	Phone
(2) GTCP331-200ER, (2) GTCP131-9A, (1) GTCP131-9B	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) A321 Enhanced Landing Gear 2020 OH					
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