

Weekly Aviation Headline News

WORLD NEWS

Zongteng Group selects WFS to handle new 777F services in Paris

Worldwide Flight Services (WFS) has been awarded a contract to handle Zongteng Group's new Boeing 777 freighter flights at Paris Charles de Gaulle International Airport. The new 777F service will provide 15,000 tonnes of annual cargo capacity, providing Zongteng Group customers with highly reliable e-commerce logistics services and optimised lead times. WFS has been appointed to provide ramp and cargo handling services for the cargo flights at Paris CDG, which are operated by Zongteng Group in collaboration with Central Airlines.

Collins Aerospace plays key role in HECATE project

Collins Aerospace will coordinate the development of new high-voltage electric power distribution technologies under the European Union's Clean Aviation Hybrid-ElectrIC regional Aircraft distribution TEchnologies (HECATE) project. Collins will lead the project's steering committee, while Safran will serve as technical coordinator. As the aviation industry works to achieve its goal of net-zero carbon emissions by 2050, the development of hybrid-electric aircraft is seen as one of the key ingredients to success. HECATE is set to receive roughly €34m in funding from Clean Aviation and €6m from UK Research and Innovation.

Zanzibar Airport sees new investment worth US\$ 10 million

dnata, Emirates Leisure Retail and SEGAP are investing \$10m in services at Zanzibar Abeid Amani Karume International Airport – Tanzania. The three companies will work closely together to deliver world-class services for airlines and passengers at the newly-built international terminal (T3). Steve Allen, CEO of dnata Group and Chairman of Emirates Leisure Retail and MMI, said: "We're delighted to celebrate the launch of our airport services and retail offering with our partners at Zanzibar's new, advanced airport terminal."



Delta made significant progress restoring its financial foundation.

© Delta

Delta's unstoppable rebound

As the carrier turns around its fortunes

Delta recently released annual financials for 2022 indicating that the U.S carrier is now one of the world's most profitable airlines and leading the industry out of the pandemic induced turbulence. The airline reported a good set of results for the year – adjusted operating profit of \$3.6 billion (7.8% margin). As analysts at *IBA* noted, this is positive, though still some way below the \$6.6 billion (with a 14.2% margin) achieved in FY19.

The U.S carrier made significant progress restoring its financial foundation in 2022 with positive free cash flow generation and three quarters of double-digit margins. "This enabled us to pay down over \$4.5 billion of gross debt during the year, strengthening our balance sheet," said Dan Janki, Delta's Chief Financial Officer. "We expect to deliver free cash flow of more than \$2 billion

in 2023 and further reduce debt on our path to reach investment grade metrics in 2024."

Mike Malik, Chief Marketing Officer at aviation analytics firm *Cirium* said there are several reasons why Delta has become one of the world's most profitable airlines. Malik cited strengths

from Atlanta, its largest hub, just this quarter alone. More recently, as data from *Cirium* indicates, the airline has been growing its Boston network, with almost 40% more seats offered today than in 2019. Examples of Delta's new Boston routes include Rome, Tel Aviv, Phoenix, and San Diego.

Atlanta, naturally, is Delta's largest market to and from Boston. Delta's top international route by revenues is London Heathrow, followed by

"We expect to deliver free cash flow of more than \$2 billion in 2023 and further reduce debt on our path to reach investment grade metrics in 2024."

Dan Janki, Delta's CFO

that include its SkyMiles loyalty plan, constructive employee relations, a lucrative partnership with American Express, alliances and joint ventures overseas, and a fleet of modern and efficient aircraft. Like all successful airlines, however, its core strength lies in a powerful route network.

According to Diio, *Cirium's* airline planning tool, Delta is scheduled to fly more than 10 million seats

Cancun and the largest international market by routes served is Amsterdam.

Ed Bastian, Delta's CEO said: "As we move into 2023, the industry backdrop for air travel remains favourable, and Delta is well positioned to deliver significant earnings and free cash flow growth. We expect to grow 2023 revenue by 15-20% and improve unit costs year-over-year."

AIRCRAFT & ENGINE NEWS

Airbus delivered 344 helicopters in 2022

In 2022, Airbus Helicopters logged 374 gross orders (net: 362), highlighting the ongoing market recovery with 216 light single-engine helicopters sold. Deliveries increased from 338 in 2021 to 344 in 2022, contributing to Airbus Helicopters' preliminary 52% share of the civil and para-public market. Airbus' helicopter fleet flight hours are now back to pre-COVID 2019 levels. "2022 was a year in which Airbus Helicopters solidified its recovery, in a context of instability with the war in Ukraine and a fragile supply chain. I'd like to thank our customers for their continued trust in Airbus Helicopters. Our teams will continue to work hard to meet their needs and deliver on our commitments in 2023," said Bruno Even, Airbus Helicopters CEO. "Our orders came from 203 customers in 48 countries, underlining the importance of our global network as well as showing that in uncertain times, the role of helicopters is more essential than ever." New ground was broken, with important first deliveries. The first ACH160 was delivered to a Brazilian customer, transported by an Airbus Beluga, in July 2022. Shortly after, an All Nippon Helicopter's H160 entered into service in Japan and the French Navy took delivery of the first H160 for SAR operations. In October, the company delivered the first H135 to the Spanish Ministry of Interior following the major order just ten months prior. Significant support and services contracts were signed for both the civil and military range. Highlights include an NHIndustries contract with NAHEMA for the French and German NH90s, and a follow-on contract with the U.S. Army for more than 480 UH-72A and UH-72B Lakota helicopters. The company signed In-Service HCare contracts for its fleet of 20 H145s and six ACH160s.

Pioneering Norfolk aviation project lifts off



The 'electric sky jeep', based on a Zenith CH750 aircraft

© NUNCATS

A pioneering Norfolk, England aviation project aimed at improving healthcare and saving lives in some of the most remote parts of the world is a step closer to take-off after taking its maiden flight. Old Buckenham-based firm NUNCATS is in the process of developing the 'electric sky jeep', to provide cheap and sustainable transport to deliver doctors, teachers and medical supplies to remote communities across the world. It plans to work with charities and non-government organisations (NGOs) to tap into existing networks of solar-powered energy grids on buildings in remote towns and villages so that the aircraft can fly between them delivering vital medical aid and attention. The 'electric sky jeep', based on a Zenith CH750, has been under construction for the past three years and on Friday, January 20, it successfully took to the air at Old Buckenham Airfield, in south Norfolk. The test flight is a significant step forward for the project and means any tweaks can now be made to speed up the production process, step up the trials and eventually see the plane take to the skies in life-saving missions. The Community Interest Company (CIC), which has partnered with U.S. Zenith Aircraft Company and several start-up investors, is the brainchild of Shipdham-based husband and wife Tim and Helen Bridge, who founded the company in 2019 and began the work during the COVID lockdowns three years ago. They have taken a light-aircraft (available in kit form), and replaced the petrol engine and fuel tanks with an electric one with batteries, supported by solar charging stations on the ground. Both the aircraft and the solar system are based at Old Buckenham. Tim Bridge said: "Nobody else is building electric aircraft in this way. Our aim is to provide a low-cost, rugged and practical aircraft for use in rural and hard-to-reach communities, such as medics in Uganda and doctors in rural India. We knew it would work but it's great to actually see it in action. Now we have done that our next stage is to find the money to complete the second plane and replicate this so we can get them out into the field for testing. "As soon as funding allows, we hope to move towards getting this into communities where it can make a real difference. There are currently a billion people in the world with no access to healthcare, 5,000 people will die because of that just today. This can be a genuine lifesaver." The test flight was piloted by Captain Tim Kingsley, a pilot at Norwich-based air charter company SaxonAir, which is backing the project.



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ASCENT AVIATION SERVICES

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Emirates completes engine ground testing with 100% sustainable aviation fuel



© Emirates

Emirates has successfully completed the ground engine testing for one of its GE90 engines on a Boeing 777-300ER aircraft using 100% sustainable aviation fuel (SAF). The objective of the ground testing and analysis is to demonstrate the capability of the GE90 engine to run on the specially blended 100% SAF without affecting its performance, requiring no modifications to the aircraft systems, or special maintenance procedures on the Boeing 777-300ER or GE90 engine to operate. SAF reduces carbon emissions over the fuel's life cycle by up to 80%. The ground test results will now pave the way for the airline's first experimental test flight using 100% SAF in one engine, which is due for take-off

this week. The testing activities involved running one engine on 100% SAF and the other on conventional jet fuel to better analyse the fuel system's behaviour and performance under each fuel type, compare specific outputs of each engine and ensure seamless operation of the aircraft's engine and airframe fuel systems during the planned test flight. Emirates has been working with its partners GE Aerospace, Boeing, Honeywell, Neste and Virent Inc., a subsidiary of Marathon Petroleum Corp throughout 2022 on SAF fuel-blend testing. The partners have developed a blend with the same qualities and performance characteristics of conventional jet fuel and have collaborated on the technical analysis and operational requirements surrounding ground testing and experimental flight activities. The results of this initiative will provide additional data and research around synthetic fuel blend components and biofuels, supporting standardization and future approval of 100% drop-in SAF. Following the successful trial on one engine, Emirates will then continue to develop these initiatives with the engine airframe manufacturers as well as SAF providers with the goal of certifying these blends for commercial use. Currently, SAF is approved for use in blends of up to 50% with conventional jet fuel.

Guardia di Finanza takes delivery of first newly configured AW169M helicopter

Leonardo and Guardia di Finanza (Italy's Police Force with general capability in economic and financial matters as well as the only maritime Police Force in Italy) have announced the delivery of the operator's first AW169M light-intermediate twin engine helicopter in a special configuration featuring skids. The handover was performed at Leonardo's Vergiate assembly line (Varese) during an official ceremony. The aircraft will be part of an AW169M fleet of 24 units, including six with fixed landing gear and eighteen with a skid undercarriage. All aircraft are expected to be delivered by 2024 complementing a fleet of 20 AW139 intermediate twin helicopters. The AW169Ms are used for various tasks including: maritime police/patrol, homeland customs security, law enforcement, rescue and other security duties.



Official handover of AW169M helicopter at Leonardo's Vergiate assembly line

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Avion Systems acquires four A330-300 aircraft for teardown

Avion Systems of Ft. Lauderdale, FL has announced the acquisition of four Airbus A330-300s previously operated by American Airlines. The aircraft, formally equipped with PW4168A powerplants, have now been sent for teardown in Roswell, NM. This acquisition together with recent teardowns of two additional A330-200s, meets Avion Systems' strategy to position itself as one of the leading suppliers of A330 parts. This will enable Avion to increase parts distribution to both its domestic and international client base of MROs, airlines and trading partners. Ron Sever, CEO of Avion Systems commented: "Our access to inventory for twin-isle aircraft allows us to penetrate new market segments of Tier 1 and Tier 2 operators and MROs who are traditionally serviced by OEMs. This is one of many acquisitions ensuring expansion of our offering to these market segments". Avion Systems Group is a global aerospace spare parts supplier and FAA/EASA-approved MRO with multiple distribution centres worldwide, operating on a 24/7 basis for urgent and AOG requirements.

Kellstrom Aerospace and AMETEK Aerospace & Defense renew and expand commercial aftermarket distribution agreements

Kellstrom Aerospace, a global commercial aftermarket OEM distribution leader providing a comprehensive range of aircraft lifecycle solutions, has announced the renewal and expansion of its global, exclusive commercial aftermarket distribution agreements with five business units of AMETEK Aerospace & Defense including AMETEK Sensors and Fluid Management Systems (SFMS), Hughes Treitler, Rotron, Airtechnology Group, and FMH Aerospace for another five years. Additionally, a five-year global, exclusive distribution agreement has been signed with Pacific Design Technologies (PDT) expanding the partnership to six business units of AMETEK Aerospace & Defense. Kellstrom Aerospace and AMETEK Aerospace and Defense have shared a global aftermarket partnership which has consistently grown in scope and size for more than twenty years. AMETEK Aerospace & Defense is a market leader with a broad array of high-quality OEM products and aftermarket solutions ranging from engine and airframe temperature, pressure and fluid sensors, heat exchangers and surface coolers, high-performance fans, heaters, fluid and gas transfer hoses and advanced liquid cooling and pumping solutions. All come line fit on

AIRCRAFT & ENGINE NEWS

Leonardo and Safran join forces for AW09 single-engine helicopter propulsion system



Leonardo and Safran partner for AW09 single-engine helicopter propulsion system

Photo: Leonardo

Leonardo and Safran Helicopter Engines have joined forces to further enhance the capabilities and competitiveness of the next-generation AW09 single-engine helicopter. The production aircraft will feature the 1,000 shp class of power Arriel 2K engine, the newest generation of the Arriel family. The selection of the new engine guarantees the most efficient level of industrialisation, global supply and supportability for customers. The combined Leonardo and Safran Helicopter Engines support network will provide innovative, simplified and competitive maintenance solutions and cost of operations, sustained by tailored PBH (power-by-the-hour) and SBH® (support-by-the-hour) contracts as well as a large range of digital services. Leonardo and Safran Helicopter Engines boast a longstanding and now further expanding partnership spanning from propulsion systems for light-twins up to super-medium-class helicopters. The two companies also share now the highest level of interest and commitment for the single-engine commercial market and its future evolution.

an expansive list of Boeing, Airbus, Embraer, Bombardier, Gulfstream and other aircraft and on many engines manufactured by GE, CFMI and Pratt & Whitney.

AvAir teams up with Sanad to create global component exchange pool

AvAir, an industry-leading inventory solutions provider for the aviation aftermarket, has completed an agreement with Sanad, a global industrial services leader and a wholly owned subsidiary of Mubadala Investment Company (Mubadala), to provide asset management solutions for a vast array of Airbus, Boeing, and Embraer components. All materials will

be made available for exchange to AvAir's network of customers worldwide. With this agreement, AvAir and the Sanad Group will create one of the world's largest component exchange pools, allowing customers access to overhauled and serviceable components, when and where they are needed. "We are pleased to announce this new programme with Sanad that will greatly increase the inventory that we are able to offer to our customers on an exchange basis," said Steven Solomon, AvAir Vice President of Sales. "The aviation industry needs a viable solution to address the long lead times on component repairs caused by the recent disruption in global supply chains. The material made available through our pool will keep our customers flying while

MRO & PRODUCTION NEWS

their components undergo the lengthy repair process.”

ST Engineering secures CFM56-7B engine maintenance contracts from two airlines

ST Engineering has reported that its Commercial Aerospace business has secured CFM56-7B engine maintenance contracts from two established airlines based in Asia. Under these contracts, ST Engineering will carry out heavy maintenance of CFM56-7B engines for the two airlines at its engine MRO facilities in Singapore and Xiamen, China.

Tay Eng Guan, SVP/GM of Engine Services at ST Engineering, said, “As flying activities continue to climb back up towards the pre-pandemic level, maintenance needs for the CFM56-7B engine are expected to rise in the next few years. These two airlines have been ST Engineering’s longstanding customers for over ten years and we are pleased to continue our support for their engine maintenance needs and to help see through their recovery and growth.”

ST Engineering will also be providing new engine solutions to better support customers by expanding capabilities into LEAP engines which power new-generation aircraft. The group started offering quick-turnaround services for the LEAP-1B engine at its Singapore facility in early 2022 and will provide the same service at its Xiamen facility this year. ST Engineering will soon also provide solutions for the LEAP-1A engine, starting with quick-turnaround services in 1H 2023.

Air France chooses Lufthansa Technik for APU service of Airbus A350 fleet

Lufthansa Technik and Air France have signed a long-term agreement for the technical support of auxiliary power units (APUs) of the French airline’s entire Airbus A350 fleet. Over the next six years Lufthansa Technik will provide extensive MRO services for the Honeywell HGT1700 APUs at its Hamburg site. Lufthansa Technik has long been certified by the manufacturer Honeywell as an official partner for MRO of the HGT1700 and as an official warranty station for this APU-type. The services for Air France cover a large part of the service portfolio, such as tests, repairs and overhauls, replacement of line replaceable units and life-limited parts as well as AOG (aircraft on ground) support and engineering services. Both labour and materials are billed on a “not-to-exceed” model, allowing Air France to exercise full cost control over the agreed services at all times.

AIRCRAFT & ENGINE NEWS

Air France-KLM’s fleet renewal continues with order for four A350F and three A350-900 aircraft



Air France-KLM placed orders for four Airbus A350Fs for Martinair and three A350-900 passenger aircraft for Air France
© Air France-KLM

Air France-KLM’s fleet renewal continues in an ongoing effort to improve the Group’s economic and environmental performance. In this context, the Group announced that the Air France-KLM Board of Directors has approved a firm order for four Airbus A350F full-freighter aircraft, to be operated by Martinair on behalf of KLM Cargo. These Airbus A350Fs will replace the fleet of four Boeing 747Fs currently operated by KLM Cargo and Martinair. The aircraft will be based at Amsterdam Schiphol Airport. In December 2021, Air France-KLM placed an order for four Airbus A350F full-freighter aircraft for Air France. Deliveries to Martinair and Air France are expected as of the second half of 2026, meaning both airlines will be among the launch operators of the A350F full-freighter. Benefiting from the latest technological innovations and powered by Rolls-Royce Trent XWB-97 engines, the Airbus A350F delivers significantly improved environmental performance with an over 40% reduction in CO2 emissions compared to the Boeing 747F. Its noise footprint is also 50% lower. Furthermore, a firm order for three additional Airbus A350-900 passenger aircraft for Air France has been placed, bringing the total number of A350-900s expected by Air France to 41. These Airbus A350s will replace previous-generation aircraft and will be based at Paris-Charles de Gaulle Airport. They will feature a three-class configuration (Business-, Premium-Economy- and Economy-class). Deliveries are expected in 2024.

FINANCIAL NEWS

Finnair’s Board of Directors approve long-term incentive plans

Finnair’s Board of Directors has announced that it has approved Finnair’s long-term incentive plans. The plans support the implementation of Finnair’s strategy to restore its profitability

and the performance criteria for the plans in Finnair EBIT margin. The target levels for the improved EBIT margin during 2023–2025 are the same for all personnel groups. The cash-based staff incentive plan 2023–2025 covers all those personnel groups who have contributed with savings agreements in the reduction of the company’s unit costs, which is one of the key actions of the strategy. The other incentive plan is share-based, and its participants INCLUDE

FINANCIAL NEWS

the Finnair Executive Board as well as other management and experts. “The restoration of Finnair’s profitability after two significant successive external crises has, thanks to the entire Finnair team, got off to a good start, as demonstrated by the company’s third-quarter 2022 results. We want to support the journey towards profitability, profit improvement and value creation with long-term programmes that have a common improvement metric and clearly increase shareholder value”, says Jouko Karvinen, Chairman of the Finnair Board of Directors. The staff incentive plan covers three years, 2023–2025, and all personnel groups that have participated in reducing Finnair’s unit costs with long-term savings agreements. The plan will produce a cash pay-out in the first quarter of 2026 if Finnair achieves the EBIT margin target set in the plan. Finnair’s Board of Directors may approve new personnel groups to join the plan. The purpose of the share-based incentive plan for management and experts is to support strategy implementation and encourage the participants to work for increased shareholder value in the long-term. The now-decided periods cover years 2023–2024 and 2023–2025. There are approximately 70 participants in the plan, including the CEO and the Executive Board. This means that Finnair reinstates for the CEO and the Executive Board their long-term remuneration to support strategy implementation, which was cancelled for a period of three years after the State of Finland participated in Finnair’s rights issue in the early stages of the COVID-19 pandemic. The plan will result in a share pay-out to the participants if Finnair achieves the EBIT margin target set in the plan. The EBIT margin targets for the period 2023–2024 are based on the restoration of profitability, while the period 2023–2025 emphasizes significant improvement in profitability. The potential share rewards based on the plan will be paid to the participants in the first quarter of 2025 for the 2023–2024 plan and in the first quarter of 2026 for the 2023–2025 plan. The share rewards will be delivered to the participants in a single instalment after each performance period and are freely transferable. The maximum total number of shares that may be delivered based on the plan is 9,128,000 in each performance period. This is the gross amount of the rewards, from which tax is withheld, after which the remaining net amount is delivered to the participants in shares. It is recommended that the members of the Executive Board retain ownership of at least fifty per cent of the net shares received under the plan until their shareholding in Finnair corresponds to at least the amount of their fixed gross annual salary. The amount of variable remuneration paid to a participant in a single year may not exceed one hundred and twenty per cent of the participant’s gross annual salary.

MRO & PRODUCTION NEWS

Elbit Systems-Cyclone to supply large main deck cargo doors for Boeing 777 Freighter



© Boeing 777 Freighter

Elbit Systems has reported that its wholly owned subsidiary, Elbit Systems-Cyclone, has been awarded a contract for the supply of aero-structure assemblies to the Boeing Company. The contract includes production and supply of the largest main deck cargo door (MDCD) for the Boeing 777 Freighter and 777-8 Freighter. Cyclone offers a broad range of aerospace capabilities, including the design and production of composite structural assemblies as well as services such as maintenance, installations, upgrades and integration of products to clients around the globe. Elbit Systems is one of the world’s major suppliers of aircraft doors and provides innovative and high-standard solutions.

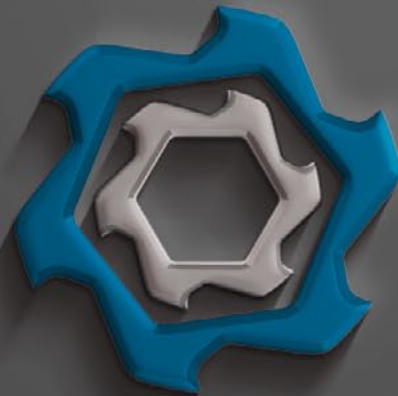
ASL Aviation Holdings and AMETEK MRO AEM sign new landing gear partnership agreement



AMETEK MRO AEM will provide landing gear services for ASL’s European fleet of B737 aircraft

© David O’Shea

ASL Aviation Holdings and AMETEK MRO AEM have signed a new agreement for the provision of landing gear services for ASL’s European fleet of B737 next-generation and classic aircraft. The agreement covers the provision of overhaul services and loan gear sets until the end of 2026 and builds on ASL’s existing relationship with AEM, which has been an ASL trusted supplier for many years. “This agreement epitomises the desire for ASL to create strategic partnerships with suppliers of the calibre of AEM. It allows us to consolidate the overhaul activity for landing gears across our European B737 fleet and benefit from cementing a relationship with a trusted supplier in whom we have great confidence will deliver an excellent service for us,” said James George, Head of Procurement, ASL Aviation Holdings.



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FINANCIAL NEWS

Raytheon Technologies reports fourth-quarter 2022 results including for subsidiaries Pratt & Whitney and Collins Aerospace

Raytheon Technologies has reported fourth-quarter sales of US\$18.1 billion, up 6% over the prior year. GAAP EPS from continuing operations of US\$0.96 was up 109% versus the prior year and included US\$0.31 of acquisition accounting adjustments and net significant and/or non-recurring charges. Adjusted EPS of US\$1.27 was up 18% versus the prior year. Both GAAP and Adjusted EPS included about 6% of a tax benefit associated with legal entity and operational reorganisations. The company recorded net income from continuing operations attributable to common shareholders in the fourth quarter of US\$1.4 billion, up 108% versus the prior year which included US\$446 million of acquisition accounting adjustments and net significant and/or non-recurring charges. Adjusted net income was US\$1.9 billion, up 16% versus prior year. Operating cash flow from continuing operations in the fourth quarter was US\$4.6 billion. Capital expenditures were US\$855 million, resulting in free cash flow of US\$3.8 billion. Collins Aerospace reported fourth-quarter 2022 sales of US\$5,662 million, up 15% versus the prior year. The increase in sales was driven by a 21% increase in commercial aftermarket, a 20% increase in commercial OE and a 5% increase in military operations. The increase in commercial sales was driven primarily by the recovery of commercial air traffic, which resulted in higher flight hours, aircraft fleet utilisation, and narrow-body deliveries. Collins Aerospace recorded operating profit of US\$741 million, up 61% versus the prior year and adjusted operating profit of US\$743 million in the quarter which was up 58% versus the prior year. Pratt & Whitney reported fourth-quarter sales of US\$5,652 million, up 10% versus the prior year. The increase in sales was driven by a 37% increase in commercial OE and an 11% increase in commercial aftermarket which more than offset a 2% decrease in military sales. Pratt & Whitney recorded operating profit of US\$306 million, up 127% versus the prior year and adjusted operating profit of US\$321 million in the quarter, up 98% versus the prior year. (£1.00 = US\$1.24 at time of publication).

Alaska Air Group delivers strong fourth-quarter 2022 and full-year results

Alaska Air Group (Alaska) has posted financial results for the fourth quarter and full year ended December 31, 2022. Alaska reported net income for the fourth quarter and full-year 2022 under Generally Accepted Accounting Principles (GAAP) of US\$22 million and US\$58 million respectively. These results compare

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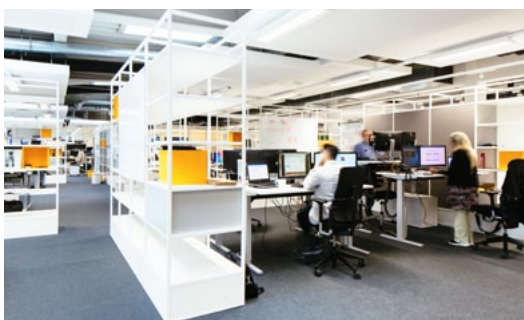
Recaro sees Air China launch the new CL6720 Business-Class seat

The Recaro Aircraft Seating (Recaro) CL6720 customised for Air China took to the skies for the first time in the cabin of an Airbus A350 en route from Beijing to Chengdu on January 20. In addition to the new seat, the aircraft included Recaro PL3530 seats in the premium economy section and CL3710 seats in the economy section of the plane. The CL6720 has been christened the 'minisuite in the sky', having been first unveiled in 2020. The seat has additional privacy features and premier living space while combining a lightweight structure with an efficient seat configuration which will help carriers reduce their carbon footprint as well as save on fuel costs. The customized Air China seat includes a Chinese-style lamp in each suite, upper stowage with a uniquely crafted drawer, specially made privacy dividers, and an Air China customised inner soft-touch back-shell. Recaro and Air China worked together to carry out a significant comfort enhancement and functional optimisation plans, incorporating feedback from both design teams. Originally established in 1988, Air China is headquartered in Beijing and has a fleet of 750 aircraft that fly passengers to 150 cities in 25 countries. Recaro Aircraft Seating is a global supplier of premium aircraft seats for airlines and OEMs and is one of the market leaders in economy-class seating. The company employs 2,100 people worldwide across its sites in China, Poland, South Africa and the United States.



Recaro CL6720 seat on Air China A350 aircraft
© Recaro

INFORMATION TECHNOLOGY



© Lufthansa Industry Solutions LHIND

In order to drive the digital transformation of aircraft repair, maintenance and overhaul, **Lufthansa Industry Solutions (LHIND)** has now become a 100% subsidiary of **Lufthansa Technik**. This means Lufthansa Technik will now be able to draw on the expertise of some 2,300 digital experts while continuing to concentrate on LHIND's customer growth. Lufthansa Technik will now be able to provide further digital services in addition to the

recently announced Digital Tech Ops Ecosystem. Also, Lufthansa Technik recently announced the acquisition of AMOS, the leading software for aircraft technical support. In acquiring LHIND, the digital transformation of the MRO industry has now taken another major step as IT experts will work even more closely with Lufthansa Technik on the digitization of core MRO processes with the intention of improving products with faster turnaround times and competitive prices for customers. In addition, the expanded collaboration with LHIND will enable additional services related to Lufthansa Technik's Digital Tech Ops Ecosystem, providing access to virtually the entire tech ops data stream and thus enabling a wide range of unprecedented digital analytics in the technical operations process. LHIND currently supports the principal players of the ecosystem AVIATAR, AMOS, and flydocs and will further expand its services including the implementation and integration of the aforementioned systems. LHIND will remain as an independent entity with its own management and market presence, continuing to grow with companies outside the aviation industry, thus expanding its strong position in the market as one of the largest IT service providers in Germany.

FINANCIAL NEWS

to net income for the fourth quarter and full-year 2021 of US\$18 million and US\$478 million respectively. The company reported net income, excluding special items and mark-to-market fuel hedge accounting adjustments, of US\$118 million and US\$556 million respectively. These results compare to net income for the fourth quarter and net loss for the full year 2021, excluding special items and mark-to-market fuel hedge accounting adjustments, of US\$31 million and US\$256 million respectively. Alaska recorded US\$257 million of incentive pay in 2022 earned by employees for meeting or exceeding profitability, safety and emissions targets. The pay-out is the richest in the 20-year history of the plan, representing nearly six weeks of pay for most employees. The company recorded US\$2.5 billion in operating revenue for the fourth quarter, resulting in US\$9.6 billion in operating revenue for the full year 2022, the highest annual total in company history. Alaska received nearly US\$1.5 billion in annual cash remuneration under the renewed co-brand credit card arrangement with Bank of America. (£1.00 = US\$1.23 at time of publication).

Governor Pritzker visits AAR's Rockford, Ill. facility, announces Illinois' US\$2.6 million investment

AAR CORP. a leading provider of aviation services to commercial and government operators, MROs, and OEMs, hosted Illinois Governor JB Pritzker, leaders from Rock Valley College and local officials and partners at its Rockford, Illinois, MRO facility on January 26. Governor Pritzker announced a US\$2.6 million investment by the State of Illinois to support and expand workforce training, pipeline development and apprenticeships at AAR's Rockford MRO facility at the Rockford International Airport (RFD). This announcement builds upon the State's FY22 investment that helped bolster AAR's comprehensive workforce strategy that led to an increase in AAR's aviation mechanics in Rockford from 85 in 2019 to more than 350 in 2023.

The State's US\$5.2 million cumulative investment in FY22 and FY23 strengthens the aviation mechanic pipeline to meet growing demand. Through AAR's comprehensive workforce strategy, the State's funding supports apprenticeship opportunities, employee advancement training, hiring of training personnel and bolsters partnerships with Rock Valley College (RVC) and high schools throughout Northern Illinois. These efforts improve the pipeline of qualified aviation mechanics. (£1.00 = US\$1.23 at time of publication).

FINANCIAL NEWS

CAE Defense & Security continues fixed-wing flight training service with U.S. Army



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CAE Defense & Security has been awarded the competitive, re-compete contract for the Fixed-Wing Flight Training Service programme by the United States Army. The contract provides comprehensive initial and recurrent training for more than 600 U.S. Army and U.S. Air Force fixed-wing pilots annually. The firm-fixed-price award has an approximate total value of US\$250 million (£202 million) through 2032 distributed from an initial base period and seven single-year options. CAE Defense & Security has provided army fixed-wing training at the company-owned, company-operated Dothan Training Center in Alabama since the initial contract award in 2016. The state-of-the-art facility, near the U.S. Army's Aviation Center of Excellence (USAACE) at Fort Rucker, supports initial and recurrent training for transitioning army rotary-wing aviators and army initial-entry fixed-wing students. "CAE provides a world-class training programme that balances academics, simulation, and aircraft flight training," said Merrill Stoddard, Vice President and General Manager, CAE Defense & Security Readiness Solutions. "We leverage modern training solutions to deliver scenario-based training specific to the army's fixed-wing requirements." The Fixed-Wing Flight Training Service programme features academic, simulation and aircraft flight training, including the CAE Trax Academy which augments the current ground-based training assets with self-paced virtual and augmented reality (VR/AR) training in both the C-12 and Grob G-120TP. CAE also provides Grob G120 TP flight training devices and a suite of desktop trainers and courseware in addition to a fleet of C-12U King Air aircraft owned and maintained by the U.S. Army and operated by CAE instructors to deliver C-12 King Air aircraft flight training.

Lockheed Martin reports successful first flight of F-16 Block 70 jet

Lockheed Martin has reported the successful first flight of the F-16 Block 70 jet at its Greenville, South Carolina site. The flight occurred January 24, with a total flight time of approximately 50 minutes and included airworthiness checks, such as engine, flight control and fuel system checks, as well as basic aircraft handling. The F-16 Block 70 jet is the first of 16 jets to be delivered to Bahrain. Six countries have selected Block 70/72 aircraft. In addition to the current official backlog of 128 jets to-date to be built in Greenville, Jordan last year signed a letter of offer and acceptance (LOA) for eight jets and last week signed an additional LOA for four more jets. Lockheed Martin has received a contract to begin Jordan's long-lead activities. Bulgaria has also signed an LOA for an additional eight jets for its fleet. Once these are finalised, the backlog will increase to 148.



The first F-16 Block 70 jet takes off

© Lockheed Martin

FINANCIAL NEWS

American Airlines reports fourth-quarter 2022 revenue of US\$13.2 billion, up 16.6% from 2019

American Airlines Group (American) has released its fourth-quarter and full-year 2022 financial results. The company reported fourth-quarter and full-year net income of US\$803 million and US\$127 million respectively. Excluding net special items, fourth-quarter and full-year net income was US\$827 million and US\$328 million respectively. American record fourth-quarter revenue of US\$13.2 billion, which represents a 16.6% increase over the same period in 2019, despite flying 6.1% less capacity and ended the year with US\$12 billion of total available liquidity, after prepaying a US\$1.2 billion term loan during the fourth quarter. The company continues to execute on its plan to pay down US\$15 billion of total debt by the end of 2025.

Based on demand trends and the current fuel price forecast and excluding the impact of special items, the company expects its first-quarter 2023 adjusted earnings per diluted share to be approximately breakeven. Based on today's guidance, American expects its full-year 2023 adjusted earnings per diluted share to be between US\$2.50 and US\$3.50. (£1.00 = US\$1.23 at time of publication).

Boeing reports mixed financial results for 2022 with net loss of US\$5 billion

Having reported a net loss of US\$4.3 billion in 2021, Boeing Co. has reported a net loss of US\$5.0 billion for 2022. Operational losses have been reported at US\$3.5 billion, up from US\$2.9 billion in 2021. The American planemaker generated US\$3.1 billion in free cash flow in the final quarter of 2022. It had forecast about US\$2.5 billion in free cash flow for the fourth quarter. The company reported US\$2.3 billion for all of 2022 according to Refinitiv data. Boeing reported fourth-quarter revenue of US\$20 billion, up from US\$14.79 billion in 2022 and a loss per share of US\$1.75. Boeing had been expected to report US\$20.38 billion in revenue in the quarter and a gain of 26 cents a share. While airlines across the industry have been struggling with supply chain bottlenecks, Boeing has managed to improve its ability to ramp-up deliveries while demand from airlines for Boeing jets remains strong. With Congress lifting a deadline imposing a new safety standard for modern cockpit alerts for two new versions of 737 MAX aircraft and China seeing the 737 cleared to fly again, there is room for optimism ahead. The situation is helped with there being approximately 140 of the 200 737 MAX planes on order for Chinese customers in storage.

OTHER NEWS



New CT technology and innovative security-lane configuration will bring greater convenience and shorter wait times for passengers © Fraport

Since January 1, 2023, **Fraport** has assumed responsibility for the organisation, management and performance of the security checkpoints at **Frankfurt Airport** (FRA). The **German Federal Police**, which was previously tasked with these responsibilities, will continue to hold statutory oversight and supervision roles, as well as overall responsibility for aviation security. It will also continue to provide armed protection at checkpoints, certification and approval of new checkpoint infrastructure and handle the certification and recertification process for aviation security personnel. Three service providers have been commissioned to conduct passenger screenings on behalf of **Fraport AG** from January 1, 2023: **FraSec Aviation Security GmbH** (FraSec), **I-SEC Deutsche Luftsicherheit SE & Co. KG** (I-Sec), and **Securitas Aviation Service GmbH & Co. KG** (Securitas). In addition, state-of-the-art CT scanners from Smiths Detection have been deployed at six selected aviation security lanes since the start of the year. The German Federal Police tested the reliability of the CT technology during a trial run in September 2022. Also helping to make the security checks run conveniently and efficiently is the "MX2" lane design from Dutch company Vanderlande. The innovative concept, which uses a CT scanner from Leidos, is being implemented for the first time worldwide. Passengers can place their hand luggage on both sides of the CT/checking equipment and retrieve it in the same way. The trial operation got underway in Terminal 1's Concourse A in January 2023.



© Air Canada Cargo freighter

Air Canada Cargo has released that scheduled service to Liège, Belgium, with its Boeing 767 freighters will begin next month, while flights to Basel, Switzerland, are slated to begin in April. Air Canada Cargo will operate flights twice per week to Liège, with the service increasing to three flights per week later in the year. Basel, one of Europe's premiere pharmaceutical hubs, will see two flights per week. They will originate in Toronto and have a stop in Halifax. The routes will connect these European destinations to Toronto and Air Canada Cargo's extensive global network. "Air Canada Cargo continues to expand its freighter network to provide customers with reliable, year-round service that connects key European markets with Air Canada and Air Canada Cargo's global network through its Toronto hub," said Matthieu Casey, Managing Director, Commercial at Air Canada Cargo. These new routes are in addition to the recent start of service to Dallas, Atlanta and Bogota as Air Canada Cargo continues to expand its freighter network.

OTHER NEWS

Wizz Air (WIZZ), the Hungarian low-cost airline, is to start its direct flights to Istanbul, Antalya and Dalaman. The routes will commence as of March 2023 connecting Türkiye with Hungary, Romania, the United Arab Emirates and the United Kingdom. Wizz Air returns to Istanbul after seven years and adds four point-to-point services to Budapest, London Gatwick, London Luton and Iasi, the earliest flight departing in March. With these services the airline will be the first ultra-low-cost carrier flying from Istanbul airport, providing over 400,000 high-quality seats to cities around Europe. Besides the new all-year-round routes to Istanbul, WIZZ is launching seasonal point-to-point services to the Turkish seaside, Dalaman and Antalya, supporting the ramp-up of local tourism.

Southwest Airlines and the **Transport Workers Union Local 550** (TWU 550) have reached a tentative agreement for the airline's dispatch employees. "This agreement rewards our dispatch employees for their many contributions while also supporting the needs of our business," said Adam Carlisle, Vice President Labour Relations at Southwest Airlines. "I appreciate the partnership and dedication from both negotiating teams as they worked to reach this agreement." This tentative agreement covers Southwest's more than 450 Flight Dispatchers, Assistant Dispatchers, Flight Superintendents, Dispatch Specialists and Dispatch ATC Specialists. The TWU 550 will share details directly with its members about the agreement and the voting process.



© FAI Air Ambulance

FAI rent-a-jet GmbH's Air Ambulance Division has received accreditation from the **European Aeromedical Institute** (EURAMI) for the fifth time for both long-range, intercontinental fixed-wing and regional fixed-wing air ambulance services. This includes medical endorsements of adult critical care, advanced adult critical care, paediatric critical care and neonatal critical care. The accreditation covers 15 aircraft in the FAI fleet which includes its Bombardier-family models – Global Express, Challenger 850, Challenger 604 and Learjet 60. EURAMI awards accreditation to aeromedical providers once they have completed an audit which includes satisfying a host of strict eligibility criteria. These include operator experience, safety record, aircraft suitability, medical care quality, medical equipment and staff qualifications to name but a few. FAI achieved a remarkable result of 100% in the "Must Haves" section and 99% in the "EURAMI Standards" section. Accreditation is important for providers like FAI as it is an endorsement of quality, safety and excellence in aeromedical transportation. FAI rent-a-jet is one of the world's largest air ambulance jet operators. Its ten-strong air ambulance fleet is based at FAI's headquarters at Albrecht Dürer International Airport Nuremberg. The business is supported by more than 250 full-time staff plus 50 physicians, nurses and paramedics. The company also specialises in air support in hostile areas for the world's largest NGO.

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OTHER NEWS

IBA, a leading aviation market intelligence and consultancy company, has published its monthly Aviation Industry Barometer for December 2022, showing that global passenger capacity reached 82% of pre-pandemic levels. Data from IBA's Insight platform reveals that the Asia Pacific region continues to lag behind global capacity, whereas most regions are now within 90-100% of pre-pandemic levels. Using data from IBA Insight, the Aviation Industry Barometer for December 2022 reveals that overall, there were approximately 2.33 million commercial passenger flights in December 2022, compared to 2.20 million in November 2022, while 2.13 million flights were recorded in December 2021. Asia Pacific flight capacity stood at 62% of 2019 levels during December 2022. IBA believes that the removal of China's zero-COVID policy restrictions should spur the APAC region's capacity recovery during the first quarter of 2023 and allow global capacity to reach pre-pandemic levels sooner than previously anticipated. Monthly global passenger capacity reached 82% of pre-pandemic available seat kilometres (ASKs) in December 2022 – an improvement of 13% compared to January 2022. There were 217 commercial aircraft deliveries in December 2022, representing a month-on-month increase of 71% compared to November 2022 and a year-on-year gain of 43% compared to December 2021.

European planemaker **Airbus** has announced that it is stepping up its quest for new talent and in the next year will be taking on approximately 13,000 new employees across the globe. Roughly 7,000 of these employees will be for newly created posts and will be responsible for supporting the industrial ramp-up as well as the company's ambitious decarbonisation roadmap and preparing the future of aviation. "In 2022 we welcomed more than 13,000 new employees within Team Airbus around the world, in a complex environment which tested our resilience and attractiveness as a global employer," said Thierry Baril, Chief Human Resources & Workplace Officer of Airbus. "Following the success of our recruitment last year, we will hire over 13,000 employees again in 2023. We call on talented individuals from all over the world to join us in our journey to make sustainable aerospace a reality and to help us build a better, more diverse and inclusive workplace for all our employees." Recruitment will be targeting technical and manufacturing skills, as well as acquisition of new skills supporting the company's long-term vision in areas such as new energies, cyber and digital. The approximate breakdown of the 13,000 positions will be 9,000 in Europe and the remaining 4,000 worldwide, with a third of the total recruitment being allocated to recent graduates. Airbus currently employs more than 130,000 people across its businesses worldwide.



The new premium-economy-class seats on SWISS' Airbus A340-300 fleet

Photo: SWISS

Swiss International Air Lines (SWISS) embarked on the Premium-Economy-Class installation programme for its **Airbus A340-300** fleet in December 2022. The first aircraft completed – HB-JMB – departed from Zurich for Johannesburg on January 24, on its first flight with the new seating class installed. All four SWISS Airbus A340s will feature the popular new class of travel by this April. "Our new Premium-Economy class has rapidly established itself as a hugely popular way of travel," says SWISS Chief Commercial Officer Tamur Goudarzi Pour. "And the highly positive feedback that we've received from our customers – on the greater seating comfort, the enhanced service, the wider choice of meals and the quality of the food – has only strengthened our resolve to offer this top-quality product on more of our routes." SWISS has already installed a new Premium-Economy class throughout its Boeing 777-300ER fleet, with first aircraft completion at the end of February 2022. SWISS was the first airline in the Lufthansa Group to introduce the best-in-class premium-economy seat, which sets new comfort benchmarks with its pitch of almost a metre and its 48-centimetre width.

Copa Airlines, a subsidiary of **Copa Holdings** and a member of the global **Star Alliance** airline network, has announced the launch of its new service from its Hub of the **Americas®** in Panama City, Panama to Baltimore, Maryland, United States starting on June 28, 2023. With this new flight, Copa



Baltimore, Maryland will become the 14th U.S. destination for

© Copa Airlines

strengthens its leadership in the Americas, while also contributing to the development of the city's economic and tourism activities. The launch of the new route to Baltimore, the historic "Charm City" known for having more public statues and monuments per capita than any other city in the U.S., adds to Copa's continuous expansion of its network of routes in North America. The coastal destination joins 13 others already in operation by the Airline in the United States including Atlanta, Boston, Chicago, Denver, Fort Lauderdale, Las Vegas, Los Angeles, Miami, New York, Orlando, Tampa, San Francisco, and Washington. In addition to Baltimore, Copa Airlines will launch a new route in South America starting June 27, connecting the Hub of the Americas® in Panama to the city of Manta, Ecuador.

INDUSTRY PEOPLE



Patrick Armstrong

• Joramco, the Amman, Jordan-based aircraft maintenance, repair and overhaul (MRO) facility as well as the engineering arm of Dubai Aerospace Enterprise (DAE) has announced that **Patrick Armstrong** has been appointed as Vice President, Commercial, as a consequence of increased business demands. Predominantly based in the Middle East and primarily in the United Arab Emirates (UAE) as an aviation professional, Armstrong has over ten years of experience in areas including customer support, marketing, sales and business development. His role at Joramco will see him take over responsibility for all commercial activities while continuing to build on the growth plan designed to deliver a streamlined customer experience. Commenting on Armstrong's appointment, Chief Executive Officer, **Fraser Currie** said, "Joramco is committed to providing a superior customer experience in its global footprint, and Patrick's appointment is a testament to the actions we take to guarantee it happens. I am confident that his experience will support Joramco's growth plans".



Ian Davies

• Latvia-based SmartLynx Airlines has announced the executive appointment of **Ian Davies** as the new VP of Technical. Davies will be responsible for strategic development, supervision and management of the organisation's CAMO operations, as well as budget control related to engineering, planning, 24/7 MCC functions, spare parts supply chain, storage and logistics, line and base maintenance, engines, APU and landing gear shop visits. He will also lead and oversee all technical departments, including Material Supply Chain and Logistics, CAMO, Engineering, MCC and SmartLynx Technik. With more than four decades of experience in the aviation industry, Ian Davies has held various influential roles at well-known companies such as EasyJet and BMI British Midland Airways. He also provided consulta-

tive services to assess the compatibility and effectiveness of Iberia Maintenance and Vueling Airlines Barcelona. For the past two years, Davies has been a Managing Director at Aerotron Composites Limited before joining SmartLynx Airlines. In addition to his daily activities, Davies will join the SmartLynx Board alongside the CEO **Zygimantas Surintas**, COO **Dennis Zilkins**, VP of Sales & Development **Edvinas Demenius**, VP of Strategy & Excellence **Skirmantas Sutkus**, VP of Safety and Security **Sigurdur Hrafn Gislason**, and VP Production **Olegs Krisovatijs**.

• AV AirFinance Limited (AV AirFinance), a global commercial aviation loan servicer, has released that **Michael Rubinett** has joined its U.S. affiliate, AV AirFinance L.P., as Senior Vice President - Loan Origination (Americas). He will be responsible for sourcing loan opportunities and developing customer relationships in the Americas. Rubinett has almost a decade of experience in commercial aviation and finance. Prior to joining AV AirFinance, he served as Vice President of mba Asset Management. In this role he oversaw portfolio management, remarketing and trading of managed assets and also advised debt and equity investors on airline restructurings, non-performing assets, and potential investment opportunities. Prior to mba Asset Management, Rubinett worked in capital markets at Aircastle, where he was responsible for raising debt capital and managing debt origination and aircraft trading within the lessor's various joint ventures, while also raising both unsecured and secured debt for the Aircastle platform.



Jon Turner

• Air Canada has appointed **Jon Turner**, currently Vice President Inflight Services, as Vice President Cargo effective February 18, 2023. An accomplished airline executive with expertise in global strategy, operations and customer service, Turner has held a wide range of progressively critical, senior leadership roles at Air Canada and other Canadian airlines. These have included Vice President, Maintenance and Engineering, with responsibility for all aspects of Air Canada's aircraft acquisition, fleet management, global aircraft maintenance programmes and airwor-

thiness. He also served as President and Chief Executive Officer at Sky Regional, a Canadian airline that operated flights under the Air Canada Express brand and prior to this as Executive Vice President at Air Transat. Turner became President, Rouge Operations in June 2019, with oversight for all aspects of leisure carrier Air Canada Rouge and its distinct brand and culture. He subsequently assumed leadership of Air Canada's Inflight Service branch of more than 9,000 inflight brand ambassadors. With three dedicated Boeing 767 freighters now in the fleet and seven more on the way, plus two Boeing 777 freighters due for delivery in 2024, Turner will have oversight for leading the strategic direction of Air Canada Cargo's global business as well as operationalising commercial cargo opportunities to sustainably optimise Air Canada's long-term business objectives.

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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
A319-100	BBAM	CFM56-5B5/P	2119	2004	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/3	4714	2011	Q3/2023	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A330-200	GA Telesis	PW4168A	322	2000	Jul 2022	Sale / Lease	David Byrne	aircraft@gatelesis.com	+353 86 780 8974
A350-900	ORIX Aviation	TRENTXWB-84	391	2020	Now	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 86 335 0004
B737-800	ORIX Aviation	CFM56-7B26/3	35216	2007	Now	Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737 MAX 8	ALTAVAIR	Leap	43564	2022	Now	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B737 MAX 8	ALTAVAIR	Leap	60135	2022	Now	Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	27051	1995	Now	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B757-200 Cargo	Airwork Ireland Limited	RB211-535E4	25297	1992	Q4/2022	Lease	Robbie Brazel	robbie.brazel@airworkgroup.com	+353 87 372 8262
B777-300ER	BBAM	GE90-115BL	38986	2011	Nov 2023	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	ALTAVAIR	GE90-115B	34600	2006	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	39700	2009	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493

Regional Jet / Turboprop Aircraft

Aircraft Type	Company	Engine	MSN	Year	Available	Sale / Lease	Contact	Email	Phone
CRJ-200	Regional One	CF34-3B1	7925	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7926	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7937	2004	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200	Regional One	CF34-3B1	7941	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8062	2006	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200ER	Regional One	CF34-3B1	8059	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ-200LR	Regional One	CF34-3B1	7625	2002	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15215	2009	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15207	2008	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15111	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900ER	Regional One	CF34-8C5	15115	2007	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4042	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4100	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145508	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007	145515	2001	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ170-100LR	Regional One	CF34-8E5	17000093	2005	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
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



THE AIRCRAFT AND ENGINE MARKETPLACE

Commercial Engines

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) CF34-10E5	Now - Sale / Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+ 1 954-478-7195
(3) CF34-10E6	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF34-10E7	Now - Lease				
(1) CF34-8C5A1	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CF34-8C5B1	Now - Sale/Lease/Exch.				
(3) CF34-8E5A1	Now - Sale/Lease/Exch.				
(1) CF34-10E6	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B3/3	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiair.com	+1 786-785-0777
(1) CFM56-5B4/P	Now - Lease				
(1) CFM56-5B3/P	Now - Lease				
(1) CFM56-5B1/P	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5B4/P	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(2) CFM56-7B24/E	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(2) CFM56-5C4/P	Now - Lease				
(1) CFM56-7B26/3	Now - Lease				
(2) CFM56-5C4	Now - Lease				
(1) CFM56-7B26E	Now - Lease				
(2) CFM56-5B5/P	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7040
(1) CFM56-5B4/P	Now - Sale / Lease				
(2) CFM56-5B6	Now - Sale / Lease				
(1) CFM56-5A3	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
(1) CFM56-5B2/P	Now - Sale/Lease/Exch.	Contrail Aviation Support	Mark Shaw	mark@contrail.com	+33 6 5834 1965
(1) CFM56-7B24/E	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(2) CFM56-7B27E/B1F	Now - Lease				
(2) CFM56-5B3/3	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P (u/s)	Now - Sale	Castelake	Stuart MacGregor	Stuart.macgregor@castelake.com	+44 207 190 6138
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-5B6/3	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(1) CFM56-7B27	Now - Lease				
(2) CFM56-7B26	Now - Sale				
(1) CFM56-5B3/P	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(2) CFM56-5B6/P	Now - Sale/Lease/Exch.				
(1) CFM56-7B27	Now - Sale/Lease/Exch.				
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
(1) GE90-115BL (Propulsor)	Now - Lease				
(2) GE90-90B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
LEAP Engines	Sale / Lease	Company	Contact	Email	Phone
(1) LEAP-1A35	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(3) LEAP-1B28	Now - Lease				
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
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4168	Now - Sale / Lease	Castelake	Graeme Dodd	Graeme.dodd@castelake.com	+44 207 190 6138
(1) PW4168A	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(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
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW121	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) PW123	Now - Sale/Lease/Exch.				
(1) PW127F	Now - Sale/Lease/Exch.				
(1) PW127M	Now - Sale/Lease/Exch.				
(1) PW150A	Now - Sale/Lease/Exch.				

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
(1) PW150A	Now - Sale/Lease/Exch.	Regional One	Duane Butler	dbutler@regionalone.com	+1 561-809-0001
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.				
(1) Trent 772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
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.				
(3) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2524-A5	Now - Lease				
(1) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale / Lease	Castelake	Graeme Dodd	Graeme.dodd@castelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiairline.com	+1 786-785-0777
(2) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(1) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2527E-A5	Now - Lease				
(4) V2527-A5	Now - Sale / Lease	GA Telesis		engines@gatelesis.com	
(2) V2533-A5	Now - Sale / Lease				

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					
(1) A320 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
(1) 777-200 Landing Gear Shipset					
GTCP131-9A (2), GTCP131-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTCP331-200, GTCP331-250	Now - Lease				
APS500C14(3), APS1000C12(2), APS2000	Now - Lease				
APS2300, APS3200(2), APS5000(2)	Now - Lease				
PW901A(4), PW901C(2)	Now - Sale / Lease				
TSCP700-4E	Now - Sale				
(1) RE220, (1) APS3200, (1) GTCP131-9A	Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTCP131-9B, (1) GTCP331-500B	Now - Sale / Lease				
(1) GTCP331-500B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(2) APS2300, (1) APS3200	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
((1) GTCP331-200ER, (2) RE220RJ	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
(2) GTCP36-150RJ					
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(3) GTCP131-9B, (1) GTCP131-9A		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(1) GTCP331-350, (1) GTCP331-500, (2) APS3200B, (3) APS3200C					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(3) APU GTC131-9B, (1) GTCP331-500B	Now - Sale / Lease	Willis Lease	Gavin Connolly	gconnolly@willislease.com	+44 1656 765 256
Engine stands now available	Now - Lease				
(2) PW901A, (1) PW901C(1), PW125B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368



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