

# Weekly Aviation Headline News

## WORLD NEWS

### **Etihad Cargo expands European capacity**

Etihad Cargo will offer increased capacity to the European market via two new gateways with the introduction of two new routes from its Abu Dhabi hub to Copenhagen in Denmark and Düsseldorf in Germany. The carrier will also introduce additional services to Frankfurt. The carrier currently operates seven passenger and four freighter flights per week to Frankfurt. From 1 May 2023, Etihad Cargo will increase weekly flights from eleven to 15 with the introduction of four new services. From 1 October 2023, Etihad Cargo will provide cargo capacity out of Denmark with the introduction of four weekly flights.

### **EGYPTAIR MAINTENANCE & ENGINEERING partners with Petra Aerospace**

EgyptAir's technical division signed a new partnership with Petra Aerospace of Jordan to develop and raise the capabilities at EgyptAir M&E's engine maintenance complex in Cairo, this involves the repair and overhaul of CFM56-3 engines. The partnership includes marketing the capabilities of the engine workshop to attract more customers in Africa, Asia, and Eastern Europe. The partnership contract was signed on the side-lines of the 31st MRO Africa 2023 held in Cairo, Egypt last week.

### **CarTrawler announces new partnership with Volotea,**

CarTrawler, a B2B travel technology company, announced that it has partnered with Volotea Airlines, a low-cost Spanish airline by integrating CarTrawler's powerful car rental technology and unique AI and machine learning tools, Volotea can provide its customers with more than 1,700 car rental companies globally to choose from. CarTrawler's Trading Squads will actively manage Volotea's business daily to ensure they are delivering a consistently high performing solution throughout the term of the partnership. Travellers will be able to shop the entire car rental market, all on the Volotea platform.



The cost at the pump has been rising since China reopened.

© Swissport

## **Jet fuel prices have reached 12-year highs**

As China's reopening takes to the skies

China made headlines again in the last week with the shooting down of a spy balloon over the U.S and subsequently at several other sightings in different parts of the world. For the aviation industry however, soaring jet fuel demand data will be vital to understanding if China's reopening will give the global economy a much-needed 'shot in the arm', according to climate technology company Kayrros. Since China's reopening on 8 January, which followed more than 1,000 days of Covid restrictions, jet fuel demand has been climbing. As the Chinese took to the skies to celebrate their freedom and the Lunar New Year, national jet fuel demand doubled within a week.

The reopening has boosted the global aviation sector, which is still recovering after Covid.

Data from Kayrros, a global climate technology company showed that year-on-year growth in jet fuel demand – a relatively 'niche' product – reached 20% last month. The company cited analysis of ADS-B data – signals from aircraft transponders. As jet fuel prices reach a 12-year

ing of jet fuel demand will be "key" to understanding if China's reopening will give the global economy the boost it needs.

"Air freight is considered a leading economic indicator. That's why the drop in air cargo demand which our data show could be a red flag for the economy," he said.

"For now, this has been more than offset by the surge in passenger flights, particularly on low-cost airlines. But this will continue to cause

rising prices, which will drive down air cargo demand.

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*Kayrros' President Antoine Rostand*

high, compared to diesel, data on air cargo, a bellwether of the global economy, suggests the global economy may not be rising with them. Passenger travel demand growth now outperforms that from air freight, which may be a worrying sign for the economy. Kayrros' President Antoine Rostand said real-time comprehensive monitor-

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economy the shot in the arm it needs.” Despite accounting for just 6% of global oil demand in 2022, jet fuel demand is expected to have an outsize impact on global oil markets this year, the International Energy Agency said last month. The IEA added that it may account for 45% of

global oil demand growth of 1.9 bpd, as the wider aviation sector continues to recover from its Covid slump. Kayrros said according to current trends, aviation will be the main factor contributing to annual oil demand of over 100 million bpd for the first time.

In the US, the rise of e-commerce bolstered jet fuel demand for cargo aircraft at the peak of the pandemic. Kayrros warned last month that the re-diversification of the economy post-Covid could undermine this, citing reports that Amazon may lay off more than 18,000 employees.

**AIRCRAFT & ENGINE NEWS**

**C&L Aviation Group purchases five additional ATR PW127F engines**

C&L Aerospace, a C&L Aviation Group company, continues to increase support for ATR operators by purchasing five ATR PW127F engines. With the addition of these five engines, C&L has now purchased twenty PW127-series engines since starting its ATR programme in 2019. Three of the engines are currently for sale, with the rest being sold or reduced to spares for C&L’s existing PW100 series repair programme. “We have expanded aggressively to meet the needs of ATR operators around the world,” said Warrick Hood, Senior Vice President of C&L Aerospace. “C&L is here to be a long-term support provider in the ATR market, assisting operators with PW127 engine sales, purchases, leasing, repair management, spare parts supply and more.” C&L has been increasing its PW127-series engine support programme for several years. The company’s full ATR support programme also includes PMA development, rotables, leading edges, propeller support, engine support, consignment and pool agreements, which combined with previous multi-million-dollar parts purchases and eight ATR tear-downs completed in the past 36-months provide a significant inventory to support operators.

**Airstream arranges sale of two ATR 42-500 aircraft**

Aircraft remarketing specialist Airstream International Group has arranged the sale of two ATR 42-500 aircraft on behalf of Hawaiian Airlines. The first aircraft, serial number 594, was sold to NTE Aviation in the U.S. and the second, serial number 625, to Rise Air in Canada. These are the fourth and fifth aircraft out of seven ATR’s from the Ohana fleet to have been delivered. Airstream provides aircraft sales, leasing and financing services for an international client base that has included airlines, government organisations, lessors, investors and financial institutions, as well as part out organisations.

**Fly Meta signs lease agreements for four Boeing 777-300ERSFs with AerCap**



The “Big Twin” Boeing 777-300ERSF

© IAI

AerCap has signed lease agreements for four Boeing 777-300ERSF aircraft with Hong Kong-based global air cargo charter company Fly Meta. The aircraft are scheduled to deliver in 2024 through 2025. The Boeing 777-300ERSF, also known as ‘The Big Twin’, is the first passenger-to-freighter aircraft conversion programme of the Boeing 777-300ER and will be the largest twin-engine freighter when it enters service this year. AerCap Cargo and Israel Aerospace Industries Group (IAI) launched the 777-300ERSF conversion programme in 2019, known as ‘The Big Twin’. Today, AerCap Cargo has a firm order book of 20 Boeing 777-300ERSF aircraft and a further ten options. The first aircraft is expected to deliver in the first half of 2023 to U.S. cargo airline, Kalitta Air.

**Italian carrier NEOS takes delivery of two Boeing 737-800 aircraft from CDB Aviation**



NEOS Boeing 737-800 aircraft

© AirTeamImages

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing (CDB Leasing), has delivered two Boeing 737-800 aircraft to a new customer, Milan-based NEOS S.p.A. (NEOS). The airline, which operates services from Italy and Europe to the Americas, Asia and Africa, plans to deploy the two aircraft, configured with 186 single-class seats, on intra-European and intercontinental routes.

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**AIRCRAFT & ENGINE NEWS**

**Norwegian sees boost to passenger numbers – signs LOI to lease six Boeing 737s**

Norwegian has seen a 78% boost in January passenger numbers compared to January 2022, having carried 1,131,474 passengers in what is traditionally a quiet month for travel. “People traditionally travel less in January, instead using this time of year to book their next travels. Nevertheless, we had close to full flights to warmer destinations this month. Our New Year’s sales campaign resulted in more than one million sold seats, a satisfying start to this year’s ticket sales,” said Geir Karlsen, CEO of Norwegian. The load factor for January 2023 was also 78%. The capacity (ASK) was 1,870 million seat kilometres, while actual passenger traffic (RPK) was 1,453 million seat kilometres. This year’s summer programme will be made up of 300 routes to 114 destinations. This will include an expanded network together with additional aircraft, including six Boeing 737 MAX 8s that the Scandinavian carrier has just signed a letter of Intent (LOI) for. These six aircraft are in addition to three MAX 8s that it had previously agreed to lease from ALC. The Boeing 737 MAX 8 is roughly 14% more fuel-efficient than previous-generation aircraft, which will help contribute to Norwegian’s ambitious target to reduce its carbon emissions by 45% by 2030.

**Avolon completes delivery of five Boeing 737-8 MAX aircraft to Indian airline Akasa Air**



Akasa Air has taken delivery of five Boeing 737-8 MAX aircraft Photo: Avolon

International aircraft leasing company Avolon has completed the delivery of five new Boeing 737-8 MAX aircraft to Akasa Air, India’s newest airline. Delivery of the aircraft commenced in December 2022 and was completed in January 2023. This sale and leaseback transaction is Avolon’s first deal with Akasa.

**Lufthansa Cargo now operates world’s first AeroSHARK modified freighter**

As a result of new technology developed by Lufthansa Technik and BASF, Lufthansa Cargo is now operating a Boeing 777F with AeroSHARK technology which will reduce its fuel consumption by one percent. The technology was first used on a SWISS 777-300ER and this is the first instance of the new technology’s use on a freighter aircraft. The AeroSHARK modification was performed in mid-January as part of a scheduled maintenance layover for the freighter and was completed well within the time frame. The aircraft has now returned to active service and set off on its premiere flight from Frankfurt to Bangalore in India, before flying on to Chengdu in China. AeroSHARK is a surface film that mimics the microscopic structure of shark skin. It consists of ribs around 50 micrometres in size – the so-called riblets. If the airflow on the fuselage and engine nacelles of the Boeing 777F is optimised in this way, significant fuel savings can be achieved. For Lufthansa Cargo’s aircraft, Lufthansa Technik estimates fuel savings of about one percent. Extrapolated to Lufthansa Cargo’s entire 777 fleet, this will result in annual savings of more than 4,000 metric tons of kerosene and nearly 13,000 metric tons of CO2 emissions. Over time, the AeroSHARK modification will be incorporated within the entire Lufthansa Cargo 777 freighter fleet which will make these eleven aircraft more fuel-efficient and produce lower emissions. SWISS is also having its twelve Boeing 777-300ERs modified with AeroSHARK. Last December, Lufthansa Technik obtained a Supplemental Type Certificate (STC) from the European Aviation Safety Agency (EASA) for two types of Boeing 777, paving the way for the serial application of AeroSHARK to the 777 fleets of the launch customers.



Modification of Lufthansa Cargo’s first 777F with AeroSHARK © Lufthansa Cargo

**AIRCRAFT & ENGINE NEWS**

**Air New Zealand selects Heart Aerospace as partner for mission Next-Gen Aircraft**

Swedish electric airplane developer Heart Aerospace has been selected as a long-term partner for Air New Zealand’s Mission Next-Gen Aircraft partnership for the replacement of the airline’s Q300 domestic fleet with a more sustainable option from 2030. Heart Aerospace was selected alongside Airbus, ATR, Embraer, and Universal Hydrogen. Air New Zealand’s Mission Next-Gen Aircraft was created to accelerate the development of zero-emissions aircraft technologies, as well as the infrastructure required for such a challenge for commercial aviation in New Zealand. As a long-term partner, Heart Aerospace will work alongside Air New Zealand over the coming years to make flying these aircraft a reality. Heart Aerospace is developing the ES-30 which is a regional electric airplane with a standard seating capacity of 30 passengers and driven by electric motors with battery-derived energy. The ES-30 will have a fully electric zero-emissions range of 200 kilometres, an extended 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 expects to deliver its first ES-30 aircraft in 2028.



Regional electric airplane ES-30

© Heart Aerospace

**Pratt & Whitney Canada and ATR to ready PW127-powered aircraft for 100% SAF**



© ATR

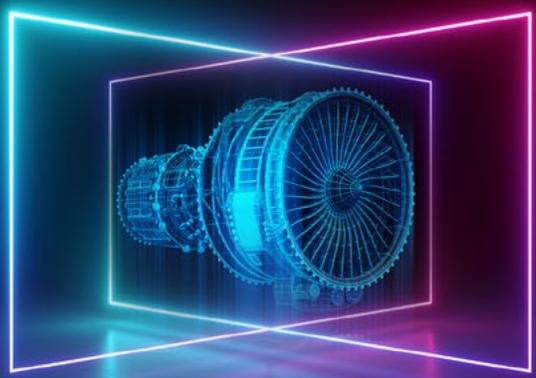
While Pratt & Whitney engines have been certified to operate with 50% sustainable aviation fuel (SAF) for the last ten years the jet engine maker is currently teaming up with the world’s largest regional jet manufacturer ATR to ready the PW127-series engines to be SAF ready by 2025. This will include the new PS127XT. The Pratt & Whitney engines have been targeted to power the ATR 42 and ATR72 aircraft with 100% SAF by 2025. In June 2022, ATR, Pratt & Whitney Canada and Braathens Regional Airlines jointly conducted a successful flight test on an ATR 72-600 aircraft with both PW127M engines fuelled solely with SAF. “Our collaboration with ATR will be underway throughout 2023 and 2024 and builds on our recent 100% SAF test flight with Braathens Regional Airlines, which was an industry first for regional aviation,” said Anthony Rossi, Vice President Sales and Marketing, Pratt & Whitney Canada. “Alongside our efforts to continually enhance aircraft engine efficiency, SAF has a critical role to play on the journey to achieve the aviation industry’s goal of net-zero CO2 emissions by 2050. While all Pratt & Whitney Canada engines have already been certified for 50% SAF blends for more than a decade, ensuring readiness to operate with 100% SAF blends in future will allow us to maximise their potential for decarbonisation.”



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**AIRCRAFT & ENGINE NEWS**

**3C and Horizon Aircraft sign MOU for collaboration on certification and services**

Following a very fruitful set of joint meetings, 3C, the Transport Canada-approved, independent flight test and certification Design Approval Organization (DAO) and Horizon Aircraft have signed a memorandum of understanding (MOU) under which the two companies will collaborate on aspects of the continued development and path to certification of Horizon Aircraft’s Cavorite X5 programme. The MOU establishes a framework for ongoing expansion of collaboration as the Cavorite X5 programme evolves and will give Horizon access to services and expertise that includes gap analysis, certification planning, certifiable design consulting, training, flight test planning and execution and eventual airworthiness approval. The collaboration will also enable both companies to work together on future business development opportunities and strengthen the case for this exciting “made-in-Canada” programme. “We have been following the Cavorite X5 programme from a distance for some time now and are very impressed with many of the business and design decisions that Horizon Aircraft have taken thus far on the programme. We believe wholeheartedly that Canada must have one or more OEMs for imaginative platforms like this and are delighted to have teamed up with the Horizon Aircraft folks to try and help them do exactly that,” says Phil Cole, VP Business Development of 3C. “Based on extensive prior experience, Horizon Aircraft understands the challenges ahead both with airworthiness approval and with vehicle operations. Accordingly, they are taking a very pragmatic approach to their development in order to significantly lower programme risk.”



Cavorite X5 aircraft

© Horizon Aircraft

**Japan finally pulls plug on long-delayed SpaceJet commercial aircraft**



Image of Mitsubishi SpaceJet

© Mitsubishi

Mitsubishi Heavy Industries has announced that it is cancelling the public-private SpaceJet project that would have seen Japan launch its first domestically produced passenger jet, despite having received orders over time for over 450 of the aircraft. The project had been supported by the Japanese government and domestic firms including Toyota, but has been beset with problems and multiple delays which has seen it exceed its original target launch date by some ten years and the consequential cancellation of many of the original orders from the likes of Japan Airlines and All Nippon Airways. The project was launched in 2008 under the project name Mitsubishi Regional Jet with the original launch date penned for 2013. The twin-engine less-than-100-seat jet was intended to herald in a new era

of regional travel within Japan, but after the project was renamed SpaceJet in 2019, in 2020 the project was put on hold after further technical problems and the negative effects of the global COVID-19 pandemic on the aerospace industry. The firm’s president, Seiji Izumisawa, admitted that Mitsubishi Heavy Industries “lacked the know-how” to develop passenger jets. “We are no longer sure of its business viability,” he told reporters. In a statement, the company said that it had been “difficult to obtain understanding and necessary cooperation from global partners”, adding that “further extensive funding” was needed to get the plane’s design approved.

**MRO & PRODUCTION NEWS**

**MTU Maintenance Dallas moves into new facility**

MTU Maintenance Dallas, will relocate from Grapevine, Texas to a larger facility at near-by Fort Worth Alliance Airport. This will create significantly more capacity. The new climate-controlled shop will have 430,000 ft<sup>2</sup> of space – an increase of 400% compared to the previous location. The new facility will not only accommodate increasing space requirements and a growing workforce, it will also enable engine testing on site for the first time. The new facility offers MTU Maintenance Dallas the best conditions to continue working to the highest quality standards. The move is scheduled for Q2 2023. There will be no operational impact during the relocation period. The test cell facility, which can support engines with up to 100,000 pounds of thrust, is planned to be operational by Q4 2023. These new capabilities, together with higher capacities, provide flexibility to add additional engine types to the maintenance portfolio in the near future. MTU Maintenance Dallas, currently located in Grapevine, Texas, is part of MTU’s MRO network and is MTU Maintenance’s main hub for on-site services in North America. The shop holds approvals from EASA (European Aviation Safety Agency), the FAA (Federal Aviation Authority) and multiple other certifications from regulatory agencies across the globe. Today MTU Maintenance Dallas’ existing maintenance portfolio includes CFM56-3/-5B/-7B, CF34-3/-8/-10, CF6-80C2/E1, GE90, PW2000, and V2500 engines.



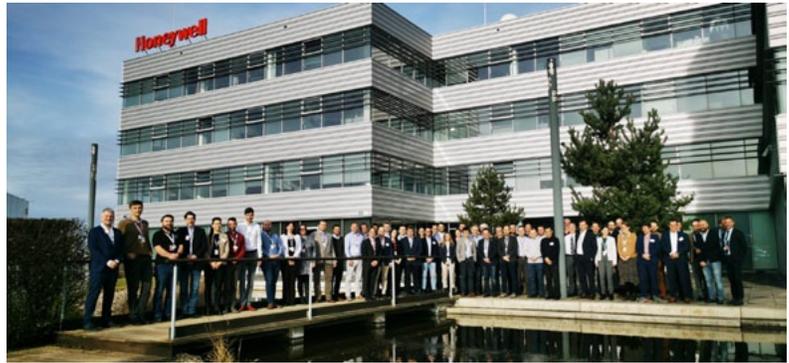
MTU Dallas facility

© MTU

**MRO & PRODUCTION NEWS**

**Honeywell launches disruptive research on hydrogen fuel cells for aircraft**

A consortium led by Honeywell has launched a European Clean Aviation project that will develop a new generation of hydrogen fuel cells for the aviation industry. Project NEWBORN will involve multidisciplinary collaboration between 18 partners from ten European countries to develop an aerospace-qualified megawatt-class fuel cell propulsion system powered by hydrogen. Green hydrogen, the term given to hydrogen produced by splitting water into hydrogen and oxygen using renewable electricity, is an extremely clean power source that can be used to propel future aircraft, which makes it appealing as the aerospace sector works to reduce carbon emissions. The megawatt-class fuel cell propulsion system delivered by NEWBORN will give birth to future, sustainable aviation beyond a megawatt. The final demonstrator will be integrated and tested by Pipistrel Vertical Solutions, a Slovene-based disruptive general aviation manufacturer. Work on NEWBORN will be performed at the Honeywell Technology Solutions research and development center in Brno, Czech Republic, and at other Honeywell and project-partner sites across Europe. Clean Aviation Joint Undertaking, the European Union’s research and innovation programme for transforming aviation toward a sustainable and climate-neutral future, will fund €700 million (£625 million) over 20 selected ground-breaking sustainability projects in response to its first Call for Proposals for disruptive technology research to power the climate-neutral aircraft of the future. Project NEWBORN was the No. 1-ranked project in the first Call for Proposals, receiving the highest score by the selection committee.



NEWBORN launch event

© Honeywell

**FAI Technik expands with new maintenance base at Berlin Brandenburg Airport**



© FAI Technik

German MRO service provider FAI Technik, a 100 % subsidiary of Germany’s special mission operator FAI rent-a-jet, has expanded its presence in Germany with the opening of a maintenance base at the all-new “Willy Brandt” Berlin Brandenburg Airport (BER), in the country’s capital. At BER, FAI will offer line and base maintenance for the full line of Hawker HS125 series, Beechcraft Premier 1/1A- and King Air-series aircraft as well line maintenance checks up to 1C for Gulfstream models including the G280, G450, G500, G550, G650 and G650ER. Additionally, an aircraft on the ground (AOG) team for Learjet and Bombardier aircraft will be deployed to support FAI’s own fleet of Learjet 60, Challenger 604 and Global Express BD700 aircraft which regularly operate in and out of BER. The new facility will complement FAI’s existing centre of competence for base maintenance and modifications of Learjet and Bombardier aircraft at its headquarters at Albrecht Duerer Airport, Nuremberg. FAI will employ over 90% of Beechcraft Berlin Aviation’s (BBA) former workforce at the new facility, following BBA’s filing for insolvency in spring 2022. Located at the airport’s General Aviation Terminal (GAT), FAI’s new facility includes over 3,400 m<sup>2</sup> of hangar floor space and another 1,300 m<sup>2</sup> of workshops, stores and offices. FAI Technik becomes the second MRO serving business aircraft at BER and the only one to support more than one aircraft manufacturer for maintenance services.

**EFW signs supplier contract with Euro-Composite worth US\$80 million**

Elbe Flugzeugwerke GmbH (EFW), competence centre for Airbus aircraft conversions (P2F) and for light-weight components, has signed a supplier contract with Euro-Composites S.A (EC), amounting to more than US\$80 million (£66 million). This has secured EFW’s supply for honeycomb products from EC as a long-term partner and supplier. EFW uses this material in the production of its lightweight aerospace products, for example floor panels, which are used in all Airbus aircraft, numbering more than 12,000. In addition, EFW also produces cargo lining and interiors for the aerospace market as well as products for the transportation market at its production sites in Dresden and Kodersdorf, Germany. Thanks to modern engineering and technologies, Euro-Composites can ensure the foundation for EFW’s top-quality and excellent delivery performance. Jointly coordinated safety stocks and the efficient use of high-tech material form the basis for a stable supply chain for major customers such as Airbus, Diehl and, of course, EFW’s freighter conversion operations.



Floor composites

© EFW

**MRO & PRODUCTION NEWS**

**Willis Aviation Services Limited expands service offerings**

Willis Lease Finance Corporation has released that its United Kingdom subsidiary, Willis Aviation Services Limited (WASL), has expanded its service offerings to include UK CAA base maintenance approvals for the Airbus A320 family, Boeing 737NG, ATR 42/72 and Embraer 135/145 aircraft. These latest approvals complement WLFC's existing UK CAA and EASA line maintenance approval capabilities at its facility at Teesside International Airport in the UK and expand upon WLFC's successful vertical integration through engine and aircraft MRO services. WASL's offerings also include aircraft disassembly, short- and long-term aircraft storage and preservation, line maintenance, return to service, as well as ground and cargo handling services.

**Lufthansa Technik and Azerbaijan Airlines sign component services contract**

Azerbaijan Airlines and Lufthansa Technik have signed a comprehensive five-year contract regarding a Total Component Support (TCS) for the Boeing 787 Dreamliner wide-body long-range fleet of the Republic of Azerbaijan's national air carrier. The carrier's first TCS contract, which comes into effect on May 1, 2023, will significantly strengthen Azerbaijan Airlines' technical operations. It will give the airline 24/7 access to Lufthansa Technik's global spare parts pool network. Among other services, the TCS includes an AOG (Aircraft On Ground) support that guarantees Azerbaijan Airlines the shortest possible delivery for time-critical components. In an important strategic step for the provision of maintenance and technical services, the contract has been tailored to include additional flexibility, so that it can easily cover the carrier's planned fleet expansion.



© Azerbaijan Airlines

**AEI receives order from Everts Air Cargo for additional MD88SF freighter conversion**



Everts Air Cargo freighter fleet

© AEI

Aeronautical Engineers (AEI) has signed a contract to provide Fairbanks, Alaska-based Everts Air Cargo with an MD88SF freighter conversion. The aircraft will commence modification in March 2023. Modification touch labour will be performed by Dothan, Alabama-based, Commercial Jet, which is an authorised AEI conversion centre. Everts Air Cargo will use the freighter to accommodate fleet expansion plans and is the sister company to Everts Air Alaska, having been formed in 1995 as a 121 Certificated Cargo Airline. Everts Air Cargo is headquartered in Fairbanks where it serves as the primary base for maintenance, administration and charter operations, specialising in serving the unique needs of its customers who reside in the larger Alaskan cities, as well as small villages in remote locations. Everts Air Cargo's primary business is transporting freight and mail, including the movement of oversized freight, hazardous materials, small packages and most anything else that fits through the cargo door.

**Delta TechOps and P&W unveil new, larger TechOps facility**

Delta TechOps and Pratt & Whitney have unveiled a new, larger TechOps engine overhaul facility dedicated to the global Pratt & Whitney GTF™ engine MRO network. The 155,000-ft<sup>2</sup> facility in Atlanta will house disassembly, assembly and test capability for engines powering Airbus A220 and A320neo-family aircraft. Leadership from Delta and Pratt & Whitney were in attendance alongside Commissioner Pat Wilson from the Georgia Department of Economic Development, media and employees. With more than 10,000 engine orders and commitments from more than 90 customers, GTF engines now power more than 1,400 aircraft with 64 operators across three aircraft families. To keep pace with the growing fleet, the GTF MRO network continues to expand around the globe. Delta's larger facility will allow the shop to overhaul more than 300 GTF engines per year. A member of the GTF MRO network since 2019, Delta TechOps inducted its first PW1100G-JM engine in 2020 and its first PW1500G engine earlier this year at the end of January within the new facility.



Official inauguration of the new Delta TechOps facility © P&W

**MRO & PRODUCTION NEWS**

**StandardAero establishes CFM56-7B service centre at DFW International Airport**

StandardAero has achieved a number of milestones associated with the introduction of a service centre for the CFM International CFM56-7B turbofan engine at its DFW Centre of Excellence at Dallas/Fort Worth International Airport. StandardAero's CFM56-7B service centre will significantly expand the engine support options available at DFW to operators of the Boeing 737NG-family of aircraft. The DFW facility has now added the CFM56-7B to the operations specifications for its FAA Part 145 Repair Station, thereby enabling StandardAero's skilled team of professionals to provide powerplant support services to Boeing 737NG operators. StandardAero is already authorised by CFM International to provide a full range of maintenance, repair and overhaul (MRO) services for the CFM56-7B from its facility in Winnipeg, MB, Canada, and its experienced DFW-based technicians are cross-training with their established Winnipeg counterparts. StandardAero has also installed the first of four dedicated gantries to support the CFM56-7B service centre within the 220,000 ft<sup>2</sup> engine DFW facility, facilitating the provision of a range of service offerings which will be made available over the coming months, including borescope inspections, Boro-blend repairs, engine module changes, QEC/LRU removal/installation and other 'quick-turn' shop visits. The company will also be adding additional service capabilities in the near future, including fan, top case, bottom case, hot section and LPT repairs. Later this year, StandardAero will be introducing dedicated CFM56-7B test capabilities at the DFW facility's six-cell engine test centre, with CFM56-5B capability to follow. This

**APOC minimises its ecological footprint with opening of new warehouse facility**



APOC's new warehouse facility in the Netherlands

© APOC

APOC Aviation, the innovative leasing, trading, aircraft component and part-out specialist, has opened a new warehouse in the Netherlands. Based on the same campus as its existing facility between Schiphol and Rotterdam, APOC has added a further 2,500 m<sup>2</sup> of warehouse, technical support space and offices. The new premises benefit from green technology features and allow for future expansion as APOC is set to double its stock hub capability and workforce over the next five years. The new warehouse implements green technology throughout with electric temperature control and high-spec insulation to reduce energy consumption. The building also has solar panels installed to leverage sustainable energy use. The part-out of an aircraft is a green process as it extends component lifecycles, thereby reducing the ecological footprint of parts," says Arjan de Jong, Vice President Operations. "We foresee significant growth as the business develops trading activity worldwide, and this new facility not only complements our business ethos but also future-proofs APOC's ambitious programme of narrow-body tear-downs. We have the scope to scale up operations and better support our customers with ever-faster deliveries underpinned by our close proximity to Schiphol airport." Recent tear-downs have significantly boosted the organisation's inventory of modern narrow-body parts. Primarily housed in the Netherlands, these integrated components also support APOC's global customer base from stock hubs in Miami and Singapore.



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**ASCENT AVIATION SERVICES**

**MRO & PRODUCTION NEWS**

milestone, which is expected to be achieved in early summer, will enable StandardAero to provide operators with performance and pass-off testing services, without the need to send their engines to a dedicated overhaul facility.

**Kellstrom Aerospace and Global Filtration sign commercial aftermarket distribution agreement**

Kellstrom Aerospace has been appointed as worldwide aviation commercial aftermarket distributor of Global Filtration for commercial aerospace filtration products eligible for installation on a broad range of aircraft. This commercial aftermarket partnership will allow Kellstrom Aerospace to provide an even greater number of high-quality savings solutions for airlines and MRO customers with factory-new air filters including HEPA Cabin Air Filters, Hydraulic Filters and Nitrogen Generating Systems (NGS) Prefilters and filter kits.

**INFORMATION TECHNOLOGY**

**Lufthansa Technik** and Colombian carrier **Avianca** have signed a five-year contract that will provide digital Condition Monitoring through the **AVIATAR** platform. With the new contract, Avianca will be able to receive instant and real-time information about the configuration and condition of its Airbus A320 and A330 aircraft as well as their engines and components – during flight and on ground, all consolidated in one place. Avianca will be joining a growing list of customers in the Americas taking advantage of AVIATAR products. Based on aircraft and maintenance data, Condition Monitoring provides an overview of the overall operational aircraft condition. The immediate detection of faults increases troubleshooting efficiency and enables proactive corrective actions leading to higher aircraft availability. With Condition Monitoring, aircraft data (e.g. from the Central Maintenance Computer, the Aircraft Condition Monitoring System, or the Aircraft Movement Message) is collected via ACARS (Aircraft Communications Addressing and Reporting System) or the **SITA** network and visualises the aircraft status and flight schedule. In addition, this health data is combined with work orders and position data. Condition Monitoring provides customizable alerts and notifications on aircraft or fleet level as well as for certain **ATA** (Air Transport Association) chapters. Thus, the user gains an excellent overview of potential corrective actions for the respective maintenance and repair operations.

**INFORMATION TECHNOLOGY**

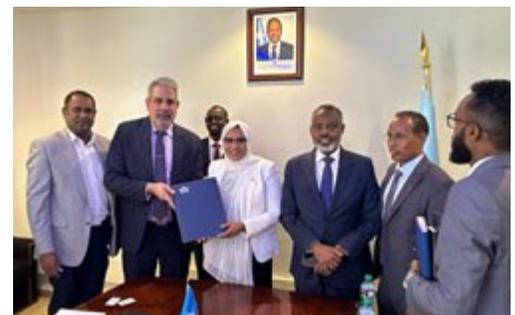


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The international air cargo conglomeration **Challenge Group** has chosen to partner with **EXSYN** with a focus on aircraft data migration. EXSYN's aircraft data management solution, **NEXUS**, will play a vital role in managing the complex aircraft data flows as **Challenge Airlines** and **Challenge Technic** migrate to the recently selected MRO/M&E system (AMOS) over the coming weeks. **Challenge Airline BE** will be the first of the Group's companies to migrate to the new system and will also benefit from the technical expertise of EXSYN's team of aircraft data consultants. EXSYN's Aircraft Data Management platform focuses on the three main elements of aircraft data management: Data Migration, Data Integration and Data Analytics. The platform is powered by the two products **NEXUS** and **AVILYTICS**. Functions in the platform range from MRO system data migration capabilities for all commonly used aviation industry MRO software, building SPEC25000 compliant aircraft redelivery binders, transforming aircraft delivery binders to be automatically loaded into airline MRO software and a wide range of aircraft data health reports to monitor data quality. The full range of analytics capabilities caters for aircraft reliability management, maintenance costs optimisation and prediction of upcoming aircraft component failures. With these data integration tools, airlines and MROs can automate business processes that make use of – or generate the data available in their MRO systems. Clients using EXSYN's Aircraft Data Management platform can also opt to augment this with expert services provided by EXSYN's team of aircraft data consultants.

**OTHER NEWS**

The **International Air Transport Association (IATA)** and the Government of the **Federal Republic of Somalia** have agreed to deepen and formalise cooperation with the aim of strengthening the economic and social benefits of aviation in Somalia. Under an agreement signed by Kamil Alawadhi, IATA's Regional Vice President, Africa and the Middle East, and H.E. Fardowsa Osman Egal, the Minister of Transport and Civil Aviation, Federal Republic of Somalia, a new framework was established that will also see an expansion of IATA's activities in the country. "Aviation is a significant contributor to the UN's Sustainable Development Goals (SDGs), so the potential for a strengthened air transport sector to contribute to Somalia's development is enormous. This agreement aims to realise that potential for social and economic development by focusing on global standards and best practices. H.E. Minister Fardowsa Osman Egal has a strong vision for a successful aviation sector to contribute to a more prosperous Somalia, and we are determined to support that by turning the words of our agreement into real actions," said Alawadhi. The agreement provides the framework to support IATA's mission for aviation in Africa: the creation of a safe, efficient, sustainable and economical air transport sector that generates growth, creates jobs, and facilitates international trade and tourism as well as playing an essential role in supporting the UN SDGs through generating connectivity between nations.



Representatives from IATA and the Government of Somalia at the contract signing © IATA

**FINANCIAL NEWS**

**Spirit posts fourth-quarter 2022 revenue of US\$1.4 billion, up 43.5%**

For the fourth quarter 2022, Spirit Airlines (Spirit) reported a net loss of US\$270.7 million, excluding special items. Adjusted net income for the fourth quarter 2022 was US\$12.6 million. Spirit reported a pre-tax loss of US\$340.3 million and a pre-tax margin of negative 24.5%. Adjusted pre-tax income for the fourth quarter was US\$23.0 million and adjusted pre-tax margin was 1.7%. For the fourth quarter 2022, the company's load factor was 81.0%, DOT on-time performance was 73.2% and completion factor was 97.0%. Total operating revenues for the fourth quarter 2022 were US\$1.4 billion, an increase of 43.5% compared to the fourth quarter 2019 primarily due to increased flight volume and stronger operating yields. Total revenue per ASM (TRASM) was 10.81 cents, up 17.0% percent compared to fourth quarter 2019 on 22.7% more capacity. (£1.00 = US\$1.21 at time of publication).

**Jazeera Airways posts annual profit of US\$65.7 million for 2022**

Jazeera Airways (Jazeera) has announced record net profits of US\$65.7 million (KD20.1 million) for the 2022 full year, an increase of 183.6% over 2021. Operating revenues for 2022 increased to US\$595.4 million (KD182.116 million), up 126.5%, and operating profit increased by 148.4% to US\$87.6 million (KD26.8 million). With the resumption of operations at the Kuwait International Airport (KIA), the airline built on its quick return to profitability in the second half of 2021. During 2022, Jazeera also exceeded 2019

**OTHER NEWS**

Beginning this year, passengers traveling through **Frankfurt Airport** (Fraport) can breeze through the various steps in the journey – from check-in to boarding – simply by scanning their faces at biometric touchpoints across the airport. This solution will be rolled out and available to all interested airlines at the airport. The implementation will see additional biometric touchpoints installed by spring 2023. From enrolment at a kiosk or counter, to pre-security automated gates and self-boarding gates, passengers can use biometric technology to seamlessly pass through each stage of the journey by simply scanning their face. The project breaks new ground in the development of digital travel by providing a true common-use biometric platform at all Fraport terminals, open to all airlines operating at the airport. It combines day of travel enrolment, Star Alliance Biometrics, and additional biometric hubs under the umbrella of the **SITA Smart Path** platform. For Lufthansa passengers specifically, thanks to the integration of SITA Smart Path with Star Alliance Biometrics, the technology makes use of their biometric identities if enrolled on Star Alliance's platform, enabling seamless identification of these passengers without additional process steps across multiple participating airports and airlines. This implementation plays a key part in paving the way for the rollout of biometrics across Star Alliance's global network, as it endeavours to have more of its 26 member carriers using biometric technology progressively. Key learnings from the Fraport project will be considered for further implementations across the network. The NEC I:Delight digital identity management platform, which is fully integrated with SITA Smart Path, ranked No.1 several times as the world's most accurate face recognition technology in vendor tests conducted by the U.S. National Institute of Standards and Technology (NIST). It allows passengers who have opted to use the service to be identified quickly and accurately, even on the move. Passengers who do not wish to use the solution can check in using a traditional check-in counter.



Frankfurt Airport

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**FINANCIAL NEWS**

performance, which was the last comparable full year of unrestricted operations, by 30%. While overall passenger traffic at the airport dropped by 26% compared to 2019, Jazeera's traffic grew by 19% during the same period. Passenger numbers increased by 247.5% to an unprecedented 3.6 million, compared to the last year. Load factor increased by 10.2% to 77.01%, which offset a decline in yield, the average fare paid per passenger, by 35.1% to KD47.96. (£1.00 = US\$1.21 at time of publication).

**Wencor Group acquires Aero-Glen International**

Wencor Group, a leading solutions provider to the aerospace and defence markets, has announced the acquisition of Aero-Glen International, LLC. "We are excited to welcome Aero-Glen International and its talented team of employees to Wencor. This acquisition is an excellent fit that accelerates our strategy to provide best-in-class distribution and value-added services to both the defence and commercial aerospace markets. It also enhances our aftermarket hardware offering, allowing us to provide our customers with more comprehensive options to meet their repair needs," said Wencor Chief Executive Officer, Shawn Trogdon. Aero-Glen International, based in Fort Worth, Texas and celebrating its 47th year servicing the aerospace market, is a full-line stocking distributor offering value-added services and kitting solutions that include aerospace fasteners, fittings, machined parts and other specialised hardware. The company serves a diverse and global customer base, including domestic, international, commercial and military customers. Aero-Glen International is the first company in the United States to successfully complete the Joint Surveillance Voluntary Assessment Program and effectively meet the stringent requirements of CMMC 2.0 Level 2 compliance.

**OTHER NEWS**

**Southwest Airlines'** (Southwest) dispatch employees, represented by the **Transport Workers Union Local 550** (TWU 550), have voted in favour of their new contract. The agreement covers Southwest's more than 450 Flight Dispatchers, Assistant Dispatchers, Flight Superintendents, Dispatch Specialists and Dispatch ATC Specialists and becomes amendable on June 1, 2027. Southwest's Facilities Maintenance Technicians, represented by **Aircraft Mechanics Fraternal Association** (AMFA), have also voted in favour of a new contract. Southwest's 50 Facilities Maintenance

**OTHER NEWS**



© Ethiopian Aviation Academy (EAA)

**Ethiopian Airlines Group**, the largest aviation group in Africa, has inaugurated a new aviation training centre in the city of Hawassa. The new training centre will serve as the second campus for **Ethiopian Aviation Academy** (EAA) and will currently be providing pilot trainee programmes. The facility accommodates different types of classrooms, three training simulators, three aircraft parking and workshop hangars, trainees' and instructors' dorm rooms, a cafeteria and sports ground for various sports. EAA had been providing aviation trainings at its base campus in Addis Ababa to trainees from different parts of the world. The new training centre will enable the academy to accommodate more trainees. EAA is the largest and most modern aviation academy in Africa recognised as an ICAO regional Training Centre of Excellence. The academy provides world-class training in different areas of the aviation profession. Currently the academy offers pilot, simulator, cabin crew and catering, aircraft maintenance, commercial and ground service and leadership training at its headquarters in Addis Ababa.



EASA has ruled out the prospect of flights with a single pilot until at least 2030 © AirTeamImages

In response to pitches made by **Airbus** and **Dassault Aviation** for the right to operate the cruise phase of commercial flights with only one pilot in the cockpit, the European aviation regulator **EASA** has ruled out the prospect of flights with a single pilot until at least 2030. However, the regulator is considering the possibility of allowing single-pilot elements of a flight by 2027.

Limitations would be set that bar pilots with existing medical conditions or insufficient flight hours from operating on their own at any time. The move to solo pilots relates more to long-haul flights where pilots would be able to take rest breaks without there having to be replacement pilots on board. This is in response to the aviation industry's problem with a current pilot shortage. Andrea Boiardi of the EASA has stated that it is "absolutely not realistic" to expect commercial planes with only one pilot on board to be flown by 2030 as automation had not advanced far enough and solo flying required a level of safety equivalent to existing operations. In addition, Solo flying, even in cruise, needs approval from the United Nations' **International Civil Aviation Organization**, individual airlines and their pilot unions. Boiardi made it clear that the most advanced planes would be suitable for solo flying during the cruise phase as they are equipped for a higher level of safety than required by minimum certification standards. Such planes would include the Airbus A350 and potentially the Boeing 787 and 777X. Even limited solo flying, however, is causing conflict among airlines and sparking public fears, while also creating a growing backlash among pilot groups such as the European Cockpit Association. "The **Federal Aviation Administration** (FAA) and Transport Canada are very much aware of our position that two pilots on the flight deck is the most safe," said Tim Perry, Canada President of the **Air Line Pilots Association** (ALPA).

**OTHER NEWS**

Technicians maintain, modify, and repair all facilities across its system to provide attractive and functional spaces for customers and employees alike. This agreement becomes amendable November 16, 2027. Since October 2022, five of Southwest's union-represented work groups have voted in favour of new collective bargaining agreements—the Appearance Technicians, Customer Service Employees, Flight Instructors, Facilities Maintenance Technicians and Dispatch Employees.

**INDUSTRY PEOPLE**



Enrique Robledo

- Iberia has announced organizational changes in its maintenance business. **Enrique Robledo** has been appointed the new director of this business, which provides services to around

a hundred clients, including IAG airlines. Robledo, who will take up his new post on March 17, is currently Iberia's Director at Madrid-Barajas Airport, a role that will be taken on provisionally from that date by the current Director of Airport Services, **José Luis de Luna**. Robledo is an aeronautical engineer with a PhD in Psychology and a master's degree from IE. He began his career at Airbus and British Aerospace and has been with Iberia since 1999, where he has held various responsibilities in the maintenance business, first as Head of Materials Planning and then as Deputy Manager of the engine workshop. Robledo will replace Andy Best, who has been Head of Iberia Maintenance for the past two years and will take on the same role at British Airways from April 17. Best has led an all-encompassing business and cultural transformation, driving sustainable business growth and strengthening the position of Iberia Maintenance's business in the market and within the IAG Group.



Jean-Michel Hillion

- Jean-Michel Hillion** has been named Executive Vice-President of the Wheels & Brakes division of Safran Landing Systems, as of February 1, 2023. Hillion started his career in

1988 as head of production for Elecma, Snecma's Electronics division. He then created the commercial aircraft FADEC repair shop when the A320 entered service. In 1998, he took part in the creation of Snecma Control Systems and was in charge of business development. In 2001, he joined Messier-Bugatti as programme director for the hydraulics, brake control and monitoring divisions. In 2005, he became director of the systems division. In 2008, Hillion joined Sagem Défense et Sécurité to create and manage the Safran Electronics division. In 2013, he was appointed Vice-President, Boeing Programs for the group, based in Seattle and in 2020, he became Group Vice-President, Engineering. Since January 2021, Hillion held the position of Group Vice-President Strategy and Climate.



Lambros Stasi

- Joramco, the Amman-based MRO facility and engineering arm of Dubai Aerospace Enterprise (DAE), has appointed **Lambros Stasi** as the new Vice President of Operations. Stasi has

gained over 30 years of experience in all aspects of the maintenance field in both wide-, and narrow-body airframes from a wide range of operations. In addition to his extensive work as a maintenance professional, he has earned multiple national licenses from the United Kingdom, Hong Kong, Bahrain and the Kingdom of Saudi Arabia with endorsements on all variants of the B747, B777, A320, A330, and A340 aircraft.

- With the objective of accelerating the company's growth and giving more focus to areas relevant to the business, Embraer has announced the creation of two new vice-presidencies: Global Procurement and Strategy, and Digital and Innovation. The two areas now report directly to the company's President and CEO, **Francisco Gomes Neto**. The Procurement area, which was previously integrated with the Vice-Presidency of Finance, IT and Investor Relations, will be led by **Roberto Chaves**, Director of Procurement since 2020. With a degree in Mechanical Engineering and an International Executive MBA from FIA-USP, Chaves joined Embraer in 2001 and has held different senior positions in the procurement area, including managing suppliers at the industrial

plant in Harbin, China, and more recently leading the company's shared services centre. The Corporate Strategy directorate, which was part of the Vice-Presidency of Engineering, along with Innovation and Digital directorate, will now form the Vice-Presidency of Strategy, Digital, and Innovation, to be led by **Dimas Tomelin**, who has been Director of Strategy for the last three years. Working for 21 years at Embraer, Tomelin was previously Director of Market Intelligence for Defence & Security and has also served as manager of the KC-390 programme and product development in executive aviation. He has a degree in Electrical Engineering, with a postgraduate degree in leadership from Fundação Dom Cabral. Upon the creation of the Strategy, Digital and Innovation Vice-Presidency, **Daniel Moczydlower** will be responsible for new projects and partnerships within the global innovation ecosystem, reporting to Dimas Tomelin. The changes take effect immediately.



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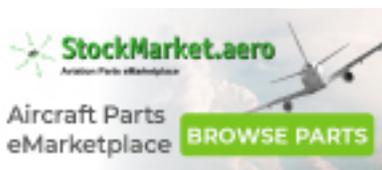
# THE AIRCRAFT AND ENGINE MARKETPLACE

## 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
A320-233ceo	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
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

## 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@ftaiaviation.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	Castlelake	Stuart MacGregor	Stuart.macgregor@castlelake.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	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.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	Castlelake	Graeme Dodd	Graeme.dodd@castlelake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Mark Napoles	mnapoles@ftaiaviation.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 (1) 777-200 Landing Gear Shipset		GA Telesis		landinggearsales@gatelesis.com	
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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