

# Weekly Aviation Headline News

## WORLD NEWS

### IAG Cargo restarts regular services to Rio de Janeiro

IAG Cargo has announced a return of its direct service from London-Heathrow – Rio de Janeiro. The route was paused throughout the majority of the past 20 months due to the COVID-19 pandemic. The services to Rio de Janeiro officially restarted on 01 December and will now run four times per week, by a B787 wide-body aircraft. IAG Cargo also services Sao Paulo with a daily service from its Madrid hub, and four times a week from London-Heathrow.

### LATAM Cargo builds strategic relationship with cargo.one

LATAM Airlines Group and cargo.one, tannounced details of a new strategic relationship, making the carriers' network available for instant booking on the cargo.one platform. This milestone is part of LATAM Cargo's innovative digitalisation agenda, with the aim of diversifying their distribution channels while offering its customers best-in-class direct booking options. This approach is proven to deliver freight forwarders more effective results than using airlines without this capability.

### Air Astana receives 7th A321

Air Astana has taken delivery of a seventh Airbus A321LR on operating lease from Air Lease Corporation. The brand new A321LR arrived at Almaty International Airport directly from Airbus plant in Hamburg, Germany. The Airbus A321LR is powered by Pratt & Whitney PW1133G engines and is the long-haul version of the A321neo. A321LR aircraft operate services across the Air Astana network, including international flights to Dubai, Frankfurt, London, Istanbul, Maldives and Sri Lanka.



Qatar's dispute with Airbus on the A350 have eccalated.

Photo: Airbus

## Qatar Airways gets legal As A350 troubles escalate

Following the grounding of Qatar Airways A350 aircraft in which the fuselage surface below the paint is degrading at an accelerated rate, according to the airline, Airbus has responded by preparing for an independent legal assessment in response to the disagreement over the surface degradation. The aircraft manufacturer says in the face of the ongoing "mischaracterisation" of non-structural surface degradation on its fleet of A350 aircraft by "one of its customers," it has become necessary for Airbus to seek an independent legal

assessment as a way forward to resolve the dispute, which the two parties have been unable to settle during direct and open discussions.

Airbus says the surface paint-related findings have been thoroughly assessed by Airbus and confirmed by the European Aviation Safety Agency (EASA) as having no airworthiness impact on the A350 fleet. Airbus continues to say the attempt to misrepresent this specific topic as an airworthiness issue represents a threat to the international protocols on safety matters.

While Airbus regrets the need to follow such a path, it has become necessary to defend its position and reputation, the airframer states. Furthermore, Airbus wishes to clarify that EASA's recent proposed corrective steps caused by areas of missing expanded copper foil (ECF) on the wings of 13 A350s as a result of a production process, which has since been adapted, is different in nature. The limited number of aircraft will be inspected as per EASA's directive.

Back in August, Qatar Airways

*Continued on page 3*

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...continued from page 1

CEO Mr. Akbar Al Baker stressed that the airline would not accept anything other than aircraft that continue to offer its customers the highest possible standard

of safety and the best travel experience that they deserve. Qatar Airways said it expected Airbus to have established the root cause and permanently corrected the

underlying condition to the satisfaction of Qatar Airways and its regulator before taking delivery of any further A350 aircraft.

## AIRCRAFT & ENGINE NEWS

### 777 Partners order 30 additional Boeing 737 MAX airplanes

777 Partners, the Miami-based investment firm, will nearly double its Boeing 737 MAX order book with the purchase of 30 additional jets. The new order expands 777 Partners' commercial aircraft portfolio to a total of 68 737 MAXs, in its fourth order this year for the fuel-efficient, single-aisle jet. Valued at US\$3.7 billion at list prices, the order will enable 777 Partners to expand 737 MAX operations across the fleet of its affiliated global low-cost carriers. The 737 MAX family reduces fuel use and carbon emissions by at least 14% compared to the airplanes it replaces, reducing operating costs as well as the environmental footprint for 777 Partners' affiliated airlines. Every 737 MAX features a passenger-pleasing Boeing Sky Interior, highlighted by modern sculpted sidewalls and window reveals, LED lighting that enhances the sense of spaciousness and larger pivoting overhead storage bins. 777 Partners is a private alternative investment firm that invests across a number of high-growth attractive verticals. Founded in 2015, 777 Partners initially applied its expertise in underwriting and financing of esoteric assets to diversify across a broad spectrum of financial services businesses, asset originators and financial technology/service providers. In recent years, the firm has broadened its mandate and now invests across six different industries: insurance, consumer and commercial finance, litigation finance, direct lending, media and entertainment, and aviation.

### Eve and Nautilus Aviation partner to develop Urban Air Mobility operations in Australia



Nautilus has ordered ten of Eve's eVTOL aircraft

Photo: Embraer

Eve Urban Air Mobility Solutions (Eve), an Embraer company and Nautilus Aviation, a division of Morris Group and Northern Australia's largest helicopter operator, have announced a partnership focused on accelerating the development of the Urban Air Mobility (UAM) ecosystem in Australia. The partnership will see the introduction of Eve's electric vertical take-off and landing aircraft (eVTOL) serving some of Queensland's most iconic tourism attractions including the Great Barrier Reef. As part of the partnership, Nautilus has ordered ten of Eve's eVTOL aircraft, with flights taking off over the Great Barrier Reef by 2026. Morris Group Founder and CEO, Chris Morris said the new partnership with Eve accelerates the progress towards 100% of scenic flights over the Great Barrier Reef coming from zero-emission electric aviation and is in line with Morris Group's commitment to reach net-zero emission by 2030 across all of its businesses. "This partnership is an exciting development for Nautilus Aviation and Morris Group. We believe economic success and environmental sustainability go hand-in-hand and aim to strengthen and enrich the environments in which we work. Eve's eVTOL technology will integrate seamlessly into our operations to deliver a range of exciting zero-emission tourism experiences," said Morris.

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## AIRCRAFT & ENGINE NEWS

### Beijing Police orders two AgustaWestland AW189 helicopters

The Beijing General Aviation Co has placed an order for two AgustaWestland AW189 super-medium twin-engine helicopters, manufactured by Leonardo S.p.A., which will be delivered to the Beijing Police as the end user to strengthen its law enforcement, search and rescue and fire-fighting capabilities in the Chinese Capital's metropolitan area. The first aircraft will be delivered in the first half of 2022, with the second one following in the first half of 2023. The contract marks the entry of the AW189 type into the Chinese civil helicopter market adding the super-medium-class model to a range of other Leonardo helicopter types. Once delivered, Beijing Police's AW189s will feature a range of mission equipment, including searchlight, rescue hoist, tactical radios, weather/search radar, cargo hook and firefighting equipment provision, among others. The two AW189s will join seven other Leonardo helicopters (three AW139s, three AW109 Powers, one AW109 GrandNew) to make Beijing Police the largest Police Aviation unit in China with a nine-aircraft fleet.



Photo: Leonardo AW189 Helicopter

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## AIRCRAFT & ENGINE NEWS

### CDB Aviation delivers A320 aircraft to Allegiant



Photo: CDB Aviation's new customer Allegiant has taken delivery of one new A320 aircraft

emerges from the pandemic," noted Luís da Silva, CDB Aviation's Head of Commercial, Americas. "This transaction is a valuable component of the carrier's fleet plan for 2022 and beyond and we look forward to building a long-term, strategic relationship with the Allegiant team." The aircraft will enter service, configured with 186 economy seats, to support the carrier's business model: point-to-point commercial air service that links small city airports to leisure destinations across the United States.

CDB Aviation, a wholly owned Irish subsidiary of China Development Bank Financial Leasing Co., (CDB Leasing), has delivered one Airbus A320-200 aircraft to a new customer in the Americas region, Las Vegas-based ultra-low-cost airline Allegiant. "With its efficient air service model focused on providing reliable and affordably accessible air travel, Allegiant has been strengthening its unique position of growth as the industry



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## AIRCRAFT & ENGINE NEWS

### Qantas to convert two Airbus A330s into freighters



Qantas will incorporate two converted A330 freighters into its Qantas Freight network  
Photo: AirTeamImages

Qantas will convert two of its Airbus A330 passenger aircraft into freighters to support the significant shift towards consumers shopping online. One of the converted wide-body freighters will be used in Qantas Freight's international network, while the other will be a new addition to the dedicated fleet that serves Australia Post's domestic parcel and mail business. In addition, Qantas Freight will receive its third Airbus A321P2F freighter this week, which will also operate for Australia Post. The narrow-body aircraft previously operated passenger services for Jetstar. The freighter will provide additional capacity ahead of what's expected to be the busiest Christmas period ever for air cargo. The seat capacity of the two A330s will be replaced by more efficient scheduling on the Qantas passenger network. Qantas will also take delivery of three new Boeing 787-9 Dreamliners during 2022. Qantas CEO Alan Joyce said the conversion of the two wide-body A330 aircraft would significantly increase capacity for both domestic and international freight.

### Milestone to deliver two S-92s to CHC Helicopters for Norwegian search and rescue missions

The Milestone Aviation Group (Milestone), a global leader in helicopter leasing, will provide two Sikorsky S-92 Search and Rescue (SAR) helicopters to CHC Helicopters (CHC), the helicopter services and MRO providers. The two Milestone S-92 SAR helicopters will be used to support a multi-year contract recently awarded to CHC by Norway's Ministry of Justice for search and rescue (SAR) services. Delivering in January 2022, the helicopters will be based in Tromsø, Norway, and will commence missions shortly thereafter. Milestone Aviation Group, an AerCap company, is a world-leading helicopter leasing and financing company. Milestone partners with helicopter operators worldwide, providing a wide array of financial and productivity solutions, including operating leases, purchase/leasebacks, secured debt financing, engine leasing and fleet advisory.



Norway's Ministry of Justice will use two Milestone helicopters for search and rescue (SAR) services Photo: AerCap

### Rolls-Royce hybrid-electric propulsion system sets megawatt milestone



PGS1 has now delivered more than a megawatt of power

Photo: Rolls-Royce

Rolls-Royce's hybrid-electric aero power and propulsion system has delivered more than a megawatt of power just weeks after going on test for the first time. Power Generation System 1 (PGS1) reached the milestone at the newly renovated Testbed 108 in Bristol, UK. Testing is continuing with the aim of reaching up to 2.5 megawatts. PGS1 is a demonstrator aimed at proving technology for future hybrid-electric regional aircraft opportunities and in addition the generator could be used within a "more-electric" system for larger aircraft or within future ground applications. PGS1 forms an important element of Rolls-Royce's sustainability strategy, which includes developing innovative electrical power and propulsion systems. As well as the generator, the PGS1 system incorporates an AE2100 engine, specialist controls and a thermal management system.

## AIRCRAFT & ENGINE NEWS

### Brazil's Federal Police receives Embraer E175 jet

Brazil's Federal Police celebrated the arrival of the first of two E175 jets, which will soon begin operating in the country. The second jet of the E175 model is expected to be delivered to the Federal Police in 2022. The partnership between Embraer and the Federal Police spans more than 15 years, since the entry into operation of two ERJ 145 jets in 2006, both of which are still operating with the Federal Police. As well as current aircraft, the E175 will also be able to support other security forces in the country, being an asset that boosts not only Federal Police operations but those for the entire sphere of public security under the Federal Government.



The Brazilian Federal Police has taken delivery of the first of two E175 jets

Photo: Embraer

### Gulfstream G500 and G600 demonstrate steep approach landing into London City Airport



Photo: Gulfstream Aviation Text: G500 and G600 jets

The Gulfstream G500 and Gulfstream G600 have successfully demonstrated steep approach landings into London City Airport in England, as well as Lugano Airport and Sion Airport in Switzerland. The milestone demonstrations of low-speed handling and short-field landing capability were celebrated with a new city-pair record run. Following official Federal Aviation Administration (FAA) and European Union Aviation Safety Agency (EASA) steep-approach certification, anticipated next year, the G500 and G600 will gain access to challenging airports such as London City, which requires the certification due to its short runway and stringent noise-abatement requirements, as well as Lugano and similar airports located in the mountainous region of Switzerland. Lugano's short runway, situated in the

mouth of a valley, requires an extremely steep approach. Following the landing demonstrations, the G500 and G600 each claimed city-pair speed records, departing London City Airport at average cruise speeds of Mach 0.90 and above. The G500 flew 3,077 nautical miles/5,699 kilometres to Teterboro Airport near New York in just 6 hours and 46 minutes, beating the previous record by 12 minutes despite challenging headwinds. The G600 set its own speed record from London to Seattle, completing its 4,235-nm/7,843-km flight in just 8 hours and 39 minutes.

## AIRCRAFT & ENGINE NEWS

### World's first A320P2F makes its maiden flight

Elbe Flugzeugwerke (EFW), the joint venture created by Airbus and ST Engineering has achieved the first flight of the A320 Passenger-to-Freighter aircraft, the A320P2F. The flight took place on December 8, at ST Engineering's facilities in Seletar Aerospace Park in Singapore and follows the conversion to freighter configuration, which commenced in March this year. The A320P2F complements EFW's current line-up of freighter-converted Airbus aircraft which are in service today, including the A321P2F, A330-300P2F and A330-200P2F. Over the next few weeks, MSN2737, originally a passenger-carrying A320-200, will prepare for its 'new life' by undergoing a series of flight-tests which will culminate in the issuance to EFW by EASA of the aircraft's Supplemental-Type-Certificate (STC). It will subsequently be leased by ST Engineering Aerospace Resources (STEAR), the aviation leasing arm of ST Engineering, to Vaayu Group. Its re-entry into service as a freighter is scheduled to commence in 2022. Vaayu revealed last month that it will lease five A320P2Fs from STEAR.



First flight of A320 P2F aircraft

Photo: EFW

### Sydney Seaplanes orders 50 Eve eVTOL aircraft as part of UAM partnership



Sydney Seaplanes has placed an order for 50 of Eve's electric vertical takeoff and landing aircraft (eVTOL)

Photo: Embraer

Sydney Seaplanes, Australia's most prominent tourism flight operator, has entered into a partnership with Eve Urban Air Mobility Solutions (Eve) that includes the purchase of 50 Eve electric vertical take-off and landing (eVTOL) aircraft, with progressive deliveries anticipated to commence in 2026. The partnership begins the groundwork for proposed electric air taxi operations in the Greater Sydney area and a further step in the direction of achieving zero carbon emissions from all Greater Sydney's tourism and commuter flights. In addition to providing the eVTOL aircraft, Eve will also provide globally recognised air traffic management software in order

to facilitate the scaling up of the urban air mobility (UAM) industry, along with maintenance, training and other services. Sydney Seaplanes began operations in 2005 with a single six-seat De Havilland Beaver aircraft while, to date, the company has flown some 80,000 flights, transporting 425,000 passengers. In 2020, Sydney seaplanes announced plans to create an all-electric and zero-emissions regional airline Alt Air as soon as 2022, with first all-electric flights planned as early as 2024. Introducing eVTOL aircraft offers an opportunity to extend the catchment of the Rose Bay aviation facilities to efficiently serve all of Greater Sydney. Commenting on the agreement, Aaron Shaw, CEO of Sydney Seaplanes said: "This is an exciting development for Sydney Seaplanes. Sydney needs a post-COVID lift and what better way to do that than by developing high-tech and zero carbon jobs that support transport, tourism and the vibrancy of this wonderful city. Eve's eVTOL technology will integrate seamlessly with our electric amphibious fleet to deliver a range of tourism and commuter journeys."

## AIRCRAFT & ENGINE NEWS

### All Nippon Helicopter takes delivery of first ever Airbus H160

Airbus has delivered the first ever H160 to Japanese operator All Nippon Helicopter (ANH), heralding a new chapter for this next-generation twin-engine helicopter. The multi-role H160 was delivered from Airbus' helicopter facility in Kobe, Japan, where flight training and specialised equipment installation for electronic news gathering will be performed before the helicopter's entry into service next year. The H160 was granted its type certificate by the European Union Aviation Safety Agency (EASA) in July 2020, followed by the certification from the Japan Civil Aviation Bureau (JCAB) in May 2021 and the Brazilian Civil Aviation Agency in September 2021. ANH deploys an Airbus helicopter fleet comprising five AS365s and five H135s. This H160 will join its existing fleet for electronic news gathering for TV stations across Japan.



ANH has taken delivery of its first H160 helicopter

Photo: Airbus Helicopters

### Saudi's The Helicopter Company agrees to buy 26 more Airbus Helicopters



THC expands fleet with the purchase of 26 aircraft from Airbus Helicopters  
Photo: Airbus Helicopters

The Helicopter Company (THC), the first and only helicopter services provider licensed to operate commercial flights in the Kingdom of Saudi Arabia and established by the Public Investment Fund (PIF) in mid-2019 has signed its second purchase agreement with Airbus Helicopters. This agreement is for 20 of the newly launched five-blade H145 and six ACH160 aircraft. Both models will be powered by biofuel-compatible engines as part of the Kingdom's policy of decarbonising its aircraft. The first agreement with Airbus was for ten H125 helicopters to increase access to domestic tourism destinations and provide services such as filming and aerial surveying. "Our mission is to create a world-class National Aviation Champion and by signing this agreement with our trusted partner Airbus, we mark an important milestone in our journey to grow together with the nation in focus to fulfil Saudi Vision 2030. This deal comes as part of THC's commitment to introduce new services with advanced technology that fulfil market demand and support the development of the Kingdom's wider aviation sector," said Raid Ismail, Chairman of the Board of THC.

## MRO & PRODUCTION NEWS

### flynas and CFM finalize RPFH agreement for LEAP-1A engines

In conjunction with French President Emmanuel Macron's state visit to Saudi Arabia, flynas, the low-cost flag carrier has finalised a multi-year Rate Per Flight Hour (RPFH) agreement with CFM International for the LEAP-1A engines powering the airline's fleet of 80 Airbus A320neo aircraft. The support agreement is valued at US\$4 billion at list price pertaining to the letter agreement for aircraft engine selection signed in 2018. The RPFH agreement is a part of CFM's portfolio of flexible aftermarket support offerings. Throughout the term of the agreement, CFM will guarantee maintenance costs for the airline's 160 LEAP-1A engines on a per-engine flight-hour basis.



Photo: Contract signing ceremony between flynas and ©CFM International

## MRO & PRODUCTION NEWS

### Boeing and STAECO to open two additional conversion lines for the 737-800BCF in 2022



Boeing and STAECO announced plans to open two additional conversion lines in 2022  
Photo: Boeing

Boeing and Taikoo (Shandong) Aircraft Engineering Co. (STAECO) have announced plans to create additional capacity for the 737-800 Boeing Converted Freighter (BCF) to help meet continued strong market demand. In 2022, Boeing will add two 737-800BCF conversion lines at STAECO's facility in Jinan, China. The first new line will open in the first quarter of 2022, with the second line expected to begin conversions by midyear of 2022. Once the two new lines are operational, STAECO will have seven conversion lines dedicated to the 737-800BCF. "Boeing is pleased to continue growing our strong and mutually beneficial relationship with STAECO by creating additional conversion capacity to meet growing global demand," said Peter Gao, Vice President, Boeing Commercial Sales and Marketing for China. "STAECO has exhibited the expertise and track record of delivering quality freighter conversions and will play a critical role in helping Boeing meet our customer commitments today and in the future." Boeing forecasts 1,720 freighter conversions will be needed over the next 20 years. Of those, 1,200 will be standard body conversions with Asia carriers accounting for 40% of that demand.

### First A321XLR development aircraft undergoes final assembly

The very first A321XLR flight test aircraft, MSN11000, took a major step forward this week in becoming a reality. This is the first of three planned development aircraft which will perform the flight-testing and type certification programme, starting in 2022, to pave the way for series production and entry into service in 2023. The structural completion of MSN11000 in the Final Assembly Line (FAL) in Hamburg follows the recent assembly and equipping of the Major Component Assemblies (MCAs) and their subsequent delivery and introduction on schedule into the FAL in November. These MCAs notably included (but were not limited to): the nose and forward fuselage, delivered from Saint Nazaire; the centre and aft fuselage assembled in Hamburg; the wings from Broughton; the landing gears supplied by Safran and the vertical and horizontal tailplanes from Stade and Getafe, respectively. While other Airbus FAL locations will eventually be producing A321XLRs to fulfil the type's large customer order-book, Hamburg has been chosen to 'pilot' this new variant into series production. This is starting with the three development flight test aircraft – now in various stages of completion there.



Structural completion of MSN11000 in the Final Assembly Line (FAL) in Hamburg  
Photo: Airbus

### Lufthansa Technik provides engine services for Frontier Airlines



Photo: Frontier Airlines A320 aircraft powered by CFM56-5B engines

Ultra-low-cost carrier Frontier Airlines has chosen Lufthansa Technik to repair and overhaul 21 CFM56-5B engines as well as to supply mobile engine services. In the next five years Lufthansa Technik will perform overhauls and surgical repairs on the engines which power Frontier's fleet of 112 Airbus A320 family aircraft. Lufthansa Technik in Hamburg, Germany, will overhaul the engines, whereas surgical repairs can be done locally at Lufthansa Technik's facility in Tulsa, Oklahoma. To this end, major investments were made at the Tulsa engine shop: new tooling was acquired, mechanics were trained, and the existing test cell was upgraded to cover CFM56-5B testing. The team in Tulsa will also perform mobile engine services for repairs necessary between overhauls, aiming to significantly reduce operational downtime and avoid unnecessary shop visits. Depending on the requirements of the individual repair solution, the available options range from on-wing and in-field services to more complex repairs performed at the shop in Tulsa.

## MRO & PRODUCTION NEWS

### Daher lays cornerstone for the Shap'In innovation centre



Photo: Daher Shap'In Technical Center, Nantes, France

components that are simultaneously lighter and stronger than the materials previously used and at a lower cost. Another major advantage is that they can be recycled/repurposed as part of a circular economy. The resulting performance gains are therefore significant and help limit aviation's environmental impact. (£1.00 = €1.17 at time of publication).

Daher's new 1,600 m<sup>2</sup> Shap'In TechCenter will bring together the company's full spectrum of aerostructures and composites expertise in a single facility to be located on Daher's existing site at Saint-Aignan-de-Grandlieu in the Jules Verne industrial innovation cluster near Nantes, France. Its operational startup is planned in October 2022. This €7.5 million project is supported by €800,000 in funding from the French Aerospace Industry Modernization Fund and will respond to technical, economic and environmental challenges faced by the industry – while also training young talent. Shap'in will employ 160 people, half of whom will work on research and development projects. Advanced composites in general – and thermoplastics in particular – are true game changers in the world of aerostructures because they enable the production of

## AIRCRAFT & ENGINE NEWS

### ALC delivers new Airbus A321-200neo LR to Peach Aviation

Air Lease Corporation (ALC) has announced the delivery of one new Airbus A321-200neo LR aircraft on long-term lease to Peach Aviation, an affiliate of ANA based in Osaka, Japan. Featuring CFM International LEAP-1A32 engines, this is the first of two new A321-200neo LR confirmed to deliver to the airline from ALC's orderbook with Airbus. This aircraft is the first A321neo LR to join Peach Aviation's fleet. "ALC is delighted to be the first to introduce the A321-200neo LR to Peach Aviation," said Chi Yan, Senior Vice President, Air Lease Corporation. "The A321neo LR will provide key enhancements to the airline's fleet operations as Peach continues to add the most modern, fuel-efficient aircraft to their expanding fleet and offer the highest quality passenger experience." In addition to this new A321-200neo LR, Peach Aviation currently has two A320-200neos on long-term lease from ALC.

### Saudi Arabian Airlines Corporation orders CFM LEAP-1A engines to power fleet of Airbus aircraft

Saudi Arabian Airlines Corporation it has ordered CFM International LEAP-1A engines to power its new fleet of 35 Airbus A321neo and 30 A320neo aircraft. This agreement, which also includes a Rate-Per-Flight-Hour (RPFH) services contract to cover engines from this new order as well as those for an additional 20 leased A320neo aircraft, is valued at approximately US\$8.5 billion at list price. Based in Jeddah, Saudi Arabian Airlines operates 61 CFM56-5B-powered Airbus

### Heart Aerospace and Garmin partner up for all-electric ES-19 fully integrated flight deck



Photo: Heart Aerospace ES-19 all-electric airliner

Heart Aerospace, headquartered in Gothenburg, Sweden, has announced that it has entered into a long-term agreement with Garmin International (Garmin) for the provision of the Garmin G3000® integrated flight deck for its ES-19 all-electric nineteen-passenger airliner. The first ES-19 is scheduled to be in service by 2026 and this first-generation aircraft will have a 400 km maximum range, driven entirely by lithium-ion batteries and electric motors. The main advantages of the ES-19 are its zero carbon emissions, low noise and appreciably lower operating costs when compared with similar-sized gas-turbine aircraft. The modular Garmin G3000 integrated flight deck is light in weight and offers vibrant, high-resolution flight displays which support navigation, communication and flight sensor solutions and which integrates seamlessly with the ES-19 aircraft systems. Specifically designed for electric aircraft, the G3000 system that will be supplied for Heart Aerospace's ES-19 will deliver enhanced capabilities to optimise the electric drive train and battery management systems. "We're thrilled to have Garmin provide its industry-leading G3000 integrated flight deck, customised and optimised for integration and operation in our ES-19 all-electric airliner," said Anders Forslund, CEO of Heart Aerospace.

## AIRCRAFT & ENGINE NEWS

A320ceo aircraft and SAUDIA Group's low-cost subsidiary, flyadeal, operates 11 CFM56-5B-powered Airbus A320ceo aircraft and five A320neos with LEAP-1A engines. Under the terms of the agreement, CFM will also assist the SAUDIA Group subsidiary Saudia Aerospace Engineering Industries (SAEI) in developing its own engine overhaul services, including disassembly, inspection, assembly, testing and qualification/certification for the LEAP-1A engines.

## MRO & PRODUCTION NEWS

### SIA Engineering signs CFM LEAP engine test agreement with Safran Aircraft Engines

SIA Engineering Company (SIAEC) has signed a ten-year agreement with Safran Aircraft Engines (SAE) to provide engine test services for the CFM LEAP-1A and -1B engines. SIAEC will provide the engine test services at its engine test facility, which will be upgraded with the latest data acquisition and control system from Safran Test Cells, a leading supplier in the CFM LEAP engine testing market. SIAEC currently has an existing engine maintenance services agreement with SAE to provide engine on-site support, quick-turn and borescope inspection services for the CFM LEAP-1A and -1B engines. The addition of CFM LEAP-1A and -1B engine test capabilities and services will strengthen SIAEC's comprehensive scope of MRO services that it provides to its original equipment manufacturer (OEM) partners and airline customers.

### Kellstrom Aerospace and Elliott Manufacturing sign commercial aftermarket distribution agreement

Kellstrom Aerospace, a global commercial aftermarket OEM Distribution leader providing a comprehensive range of aircraft lifecycle solutions, has been appointed as worldwide aviation commercial aftermarket distributor of Elliott Manufacturing, a CentroMotion Company. This commercial aftermarket partnership will allow Kellstrom Aerospace to support the material requirements of international airlines and MRO customers with factory-new Elliott Manufacturing flexible shaft assemblies, which are installed as standard equipment on most thrust reverser actuation systems (TRAS) on a broad-range of commercial aircraft engine applications as well as wing-flap and slat actuation and indicator units, wing-sweep and feedback systems, cargo door drives and many more applications demanding high-reliability flexible shaft solutions.

## MILITARY AND DEFENCE

### FAA issues certificate of airworthiness for first type-certified S-70M Black Hawk helicopter



*Photo: The first-of-type S-70M Black Hawk helicopter departs from the Sikorsky Training Academy in Florida Nov. 18, having received the FAA's certificate of airworthiness*

The Federal Aviation Administration (FAA) has completed its certification of the S-70M Black Hawk helicopter — a new type designation — by issuing Sikorsky, a Lockheed Martin company, a restricted-category special airworthiness certificate. FAA certification and the establishment of a pilot type rating are expected to broaden the market for the military-designed helicopter by allowing civil and commercial operators in the United States to purchase new Black Hawk aircraft direct from the

factory. California public utility San Diego Gas & Electric (SDG&E) took delivery of the first S-70M restricted category aircraft on November 18, at the Sikorsky Training Academy in Stuart, Florida. SDG&E will modify the aircraft to the Firehawk® configuration at United Rotorcraft, a division of Air Methods in Colorado. By 2023, the aircraft will be ready to drop water onto wild land fires with high-accuracy from its 3,785-litre (1,000-gallon) external tank.

## INFORMATION TECHNOLOGY



*Photo: TAP Air Portugal hangar*

**TAP Air Portugal** and **Lufthansa Technik** (LHT) have signed a five-year agreement for digital support by **AVIATAR** for its entire Airbus fleet. To digitally optimise its aircraft operations and benefit from cost savings, TAP Air Portugal will use AVIATAR's solutions — including Condition Monitoring, Event Analytics and Fleet Map. In addition, the airline becomes development partner for future solutions on the digital platform. AVIATAR's aircraft health monitoring solutions were tested by the TAP Air Portugal project team in parallel and in place of its current solution, including a detailed quality assessment. Within the AVIATAR community, the project team and AVIATAR team worked together to improve and adapt some of the solutions already. This enabled a collaborative development of the overall solution for TAP Air Portugal and also improved the user experience for the entire community. Launched in 2017, AVIATAR is the independent platform for digital products and services developed by Lufthansa Technik. The platform offers its users modular digital products ranging from predictive maintenance to fulfilment and automated solutions. AVIATAR combines fleet management solutions, data science and engineering expertise to provide a comprehensive range of integrated digital services and products for airlines, MRO companies, OEMs and lessors that seamlessly integrate with physical fulfilment in TechOps and beyond.

## FINANCIAL NEWS

### Safran enters exclusive discussions to acquire Orolia

Safran has entered exclusive discussions to acquire Orolia from Eurazeo alongside the founders and management. Orolia is a leader in Resilient Positioning, Navigation and Timing (PNT) solutions which improve the reliability, performance and safety of critical civilian, military and space operations, including in harsh or altered Global Navigation Satellite System (GNSS) environments. Orolia has a broad portfolio of technologies across the Resilient PNT value-chain with full system capabilities and is a provider of PNT equipment, simulation and test solutions. Orolia is also providing emergency locator beacons for commercial aviation and military applications. This acquisition represents a unique opportunity for Safran and Orolia to extend their Resilient PNT solutions, through their remarkable complementarities. With this addition, Safran will be able to establish a world-leading position in all aspects of PNT, inertial navigation, time and GNSS receivers and simulators, covering aerospace, governmental and high-integrity applications. Safran intends to accelerate the development of Orolia under the leadership of its current CEO, Jean-Yves Courtois, and in full collaboration with its teams. The mutual customer base will benefit from the leveraging of respective strengths and route-to-market capabilities. Orolia is expected to generate revenues of more than €100 million (£85.5 million) in 2021 and has approximately 435 employees with facilities in France, United States, Switzerland, Spain and Canada.

### TUI reports £2.1 billion annual loss as new COVID variant threatens winter bookings

Hanover, Germany-based Touristik Union International (TUI), the world's largest leisure, travel and tourism company is considering a potential cut to the remainder of its winter schedule as a consequence of the new Omicron COVID-19 variant begins to spread, globally. This comes on the back of the group reporting a loss of £2.1 billion for the financial year ended September 30, 2021 which it has attributed to the effects of the pandemic on the travel industry as a whole. The potential fourth wave of the pandemic comes at a time when TUI was getting close to break-even point, having posted a July-to-September loss of £82.7 million, which also helped reduce the group's loss from £2.7 billion in the 2019-2020 financial year. Currently many tourists who have booked holidays through the group have chosen to postpone trips rather than opt for an outright

## OTHER NEWS



Photo: United Aviate Academy

**United Airlines** has announced that the inaugural class of 30 **United Aviate Academy** students will begin their studies on December 6, at the new flight training academy at Phoenix Goodyear Airport. The first class will complete a rigorous, year-long training programme that sets them up for a career that reflects United's high standard of professionalism and deep commitment to delivering a safe, caring, dependable and efficient travel experience. United

Aviate Academy received more than 7,500 applications from aspiring pilots around the country in less than six months. After completing their training at the academy, students will build flight and leadership experience while working within the Aviate pilot development ecosystem at partner universities, professional flight training organisations, and United Express carriers, on their way to becoming United pilots. Following the inaugural class, United Aviate Academy anticipates welcoming between 25 and 50 new students each month and expects to train at least 500 students yearly, with a goal for at least half of those being women or people of colour. United currently expects to hire at least 10,000 pilots by 2030.



Photo: Jet Aviation Amsterdam SAF perspectives

**Jet Aviation** has signed an agreement with **Neste**, a leading producer of Sustainable Aviation Fuel (SAF), to secure and offer Neste MY Sustainable Aviation Fuel (Neste MY SAF) on-site at its FBO located at Amsterdam Airport Schiphol, effective immediately. Neste MY SAF is Jet A-1 certified and has the same operational qualities as traditional fossil fuel. It requires no aircraft modifications or further approvals. Under the agreement with Neste, Jet Aviation has purchased a stock supply of Neste MY SAF for uplift at its FBO in Amsterdam. Neste MY SAF is produced from 100% renewable and sustainable waste and residue raw materials, such as used cooking oil and animal fat waste. In its neat form and over its life cycle, Neste MY SAF can achieve a reduction of up to 80% of greenhouse gas emissions compared to fossil jet fuel use. In collaboration with Neste and Zurich Airport, Jet Aviation imported a limited supply of SAF for WEF 2020, using the event as a pilot project for customer receptivity. It was the first time SAF had been made available for purchase in Switzerland. Jet Aviation and Neste continue to support the industry's efforts to increase availability such that SAF becomes the standard fuel used in the Business Aviation sector.

## FINANCIAL NEWS

cancellation now that new travel restrictions are coming into force. The group also noted that average spend was up 15% on previous bookings as customers opt for more luxurious holidays. TUI has remained positive that summer bookings will still rebound – bookings have reached 93% of capacity for the first three months of 2022, which equates to 69% of pre-pandemic levels. The Group's chief executive, Fritz Jousen, said: "TUI's operating business is back and has recovered significantly in the last financial quarter of 2021." However, he added: "There will be flexibility in deciding whether to offer winter programme capacity at the lower end of the range depending on the so-called fourth corona wave and possible policy decisions with regard to the Omicron variant."

## OTHER NEWS

**IAG Cargo**, the cargo division of **International Airlines Group** (IAG), will be creating more than 500 new roles over the next 12 months in the biggest recruitment drive in the organisation's history, in areas ranging from operations to transformation. This landmark recruitment campaign will support IAG Cargo to expand its cargo operation and meet growing customer demand. The business has welcomed many new customers since the start of 2021. It has seen a growing demand for some of its specialist products such as Constant Climate, which supports the movement of temperature-sensitive cargo such as vaccines, its dedicated perishable product Constant Fresh and its Critical product which continue to be popular for customers needing to transport emergency items. IAG Cargo's third-quarter revenues increased by 34% compared to the same period in 2020, demonstrating sustained growth as the business increases capacity across its network. As part of the campaign, IAG Cargo will be recruiting in areas across the business including operations, revenue and inventory management, data and analytics, and projects.

**Travelport** and **Cathay Pacific**, Hong Kong's home airline, have extended their long-standing relationship with a renewed and expanded multi-source content distribution agreement which includes a commitment to work with Travelport in advancing its New Distribution Capability (NDC) initiatives. With this new long-term agreement, Travelport will continue to support Cathay Pacific by providing Travelport-connected agencies around the world with real-time access to search, sell, and book its content and inventory. The agreement will see the content available to agents progressively

## OTHER NEWS

Pilot training centre **BAA Training Vietnam** and **Bamboo Airways**, a Vietnamese airline owned by the **FLC Group**, have strengthened their reliable and long-term partnership with a five-year contract from 2021 up until 2026. Under this contract, Bamboo Airways pledges to prioritise using the full-flight simulator (FFS) A320/1 lease service of BAA Training Vietnam. The second part of the agreement covers A320 and E190 Type Rating services for Bamboo Airways pilots, with ATP Bridging, MCC and JOC included in the package. In addition, BAA Training's facilities in Europe will be the first choice of Bamboo Airways when it comes to selecting Type Rating or dry lease services for FFS A320/1 outside of Vietnam. Managing Director of BAA Training Vietnam, Vytautas Jankauskas, says: "We have been partnering with Bamboo Airways from the very beginning of our operations in 2019. Now we are fostering this time-tested cooperation further and will invest additionally to meet the client's needs. Responsible approach towards training quality, ambitious expansion plans and willingness to add up to the aviation sector's prosperity in Vietnam and South-East Asia is what ties Bamboo Airways and BAA Training Vietnam together."



Photo: BAA Training Vietnam Airbus A320 FFS



CRJ family

Photo: Aero HygenX

**Aero HygenX**, makers of the "RAY" line of UV-C light disinfecting technologies for aviation, and **MHI RJ Aviation Group** (MHIRJ) have signed an agreement for the marketing of Aero HygenX's autonomous UV-C cabin disinfecting products. The signing of this agreement marks the beginning of a new cooperation between Aero HygenX and MHIRJ. It will make faster, greener cabin disinfection readily available globally to operators of approximately 1300 CRJ Series aircraft. Under the agreement, MHIRJ will support Aero HygenX in marketing the RAY line of chemical-free disinfection solutions. The RAY line, which uses UV-C light technology proven by Aero HygenX to eliminate pathogens from cabin surfaces and air, will be offered to CRJ operators as an alternative cabin disinfection method. Furthermore, MHIRJ will include information about the Aero HygenX's technologies within its technical publications. Designed for the transportation industry, RAY is a compact and lightweight autonomous robot which uses motion sensing technology to navigate interior spaces and disinfect surfaces quickly, safely and without the use of harmful chemicals.

## OTHER NEWS

expanded, to include a larger range of fares as well as ancillaries, than had previously been unavailable.

**JetBlue** is expanding its codeshare partnership with **Aer Lingus** – the Irish flag carrier – to offer customers more ways to book and connect their travel between the two airlines' networks. As part of the new bilateral codeshare, JetBlue is now placing its "B6" code on four Aer Lingus routes between JetBlue's Northeast focus cities and Ireland: New York's John F. Kennedy International Airport (JFK) to Dublin Airport (DUB), Shannon Airport (SNN) and Boston Logan International Airport (BOS) to Dublin Airport, Shannon Airport. JetBlue intends to add its code to select Aer Lingus routes beyond Ireland in the near future.

## INDUSTRY PEOPLE



Matthew Friend

United Airlines Holdings (UAL) has reported that **Matthew Friend** will join its Board of Directors. Friend, currently Executive Vice President and Chief Financial Officer of Nike, Inc., brings more than two decades of corporate finance and strategy experience to the airline's Board. "As we emerge from the pandemic as a leader in the industry and stand ready to accelerate our business, United will benefit greatly from Matt's deep financial acumen and stewardship of one of the leading consumer brands on the planet," said United CEO **Scott Kirby**. "Plus, his years of global corporate experience will help inform our effort to continue to be a force for good across the country and around the world." Friend was named EVP and CFO of Nike, Inc. in March 2020. Since then, he has helped steer Nike through a significant business transformation. Previously, Friend held the roles of CFO for Nike Operating Segments and VP of Investor Relations. He has also served as CFO of Nike Brand, Global Brands & Functions, Emerging Markets, and as VP of Corporate Strategy and Development. Friend is a member of Nike's Executive Leadership Team and the senior management representative

to the Audit & Finance Committee of the Nike, Inc. Board of Directors.



Jill Albertelli

Pratt & Whitney has named **Jill Albertelli** President of its Military Engines business, succeeding **Matthew Bromberg**, who has elected to leave the company to pursue other opportunities. Albertelli, most recently Pratt & Whitney's Senior Vice President of Transformation and Strategy, will lead the Military Engines organisation effective December 6, and will work closely with Bromberg through the end of this year to ensure a smooth transition. Albertelli brings a history of demonstrated excellence in a broad range of leadership roles to Military Engines, with experience in roles of increasing importance in engineering, operations, programme management, sales, commercial aftermarket and product quality. Most recently, she led the company's Transformation and Strategy organisation, including overseeing digital technology, the building of Pratt & Whitney's world-class turbine airfoil production facility set to open in 2022, in Asheville, N.C., and leading the company's innovative Office of the Future initiative, with 80% of headquarters salaried staff afforded greater flexibility in work-remote options.



Pete Allwood

APOC has engaged industry specialist, **Pete Allwood**, to guide and focus its expansion programme throughout the EMEA region. His primary responsibilities will be the development and execution of sales and programme initiatives designed to maximise APOC's growing specialism in narrow-body aircraft and engine support. Previously regional head for Europe, Middle East, Africa (EMEA) at Killick Aerospace, Allwood will build upon his business development experience gained in the sale, purchase and lease of commercial B737G/A320F narrow-body aircraft, and CFM56-5B/-7B

and V2500-A5 engines to airlines, operators and MROs.



Robert Isom (l) and Doug Parker (r)

Fort Worth, Texas-headquartered American Airlines has announced that as of March 31, 2022, **Doug Parker** will retire as the company's CEO and his position will be taken over by current president, **Robert Isom**. Parker will continue to serve as chairman of American Airlines' board of directors, which Isom will join on taking up his new position.

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AviTrader Publications Corp.  
Suite 305, South Tower  
5811 Cooney Road  
Richmond, BC  
Canada V6X 3M1

Publisher  
Peter Jorssen  
Tel: +1 604 318 5207

Editor  
Heike Tamm  
editor@avitrader.com  
Tel: +34 (0) 971 612 130

Advertising Inquiries  
Tamar Jorssen  
VP Sales & Business Development  
tamar.jorssen@avitrader.com  
Phone: +1 (778) 213 8543

For inquiries and comments,  
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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
A319-100	BBAM	CFM56-5B5/P	2283	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A319-100	ORIX Aviation	CFM56-5B5/3	5018	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A319-112	Deucalion Aviation Limited	CFM56-5B63	3586	2008	Q2/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A319-131	Deucalion Aviation Limited	V2522-A5	2375	2005	Q2/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320	Deucalion Aviation Limited	CFM56-5B4/P	1571	2001	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-200	BBAM	V2527-A5	2587	2005	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A320-200	ORIX Aviation	CFM56-5B4/3	5950	2014	Q1/2022	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A320-200	GA Telesis	V2527-A5	2152	2004	Now	Sale	David Byrne	dbyrne@gatelesis.com	+353 86 780 8974
A320-214	Deucalion Aviation Limited	CFM56-5B4/3	3767	2009	Q4/2021	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-232	Deucalion Aviation Limited	V2527	4323	2010	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A320-232	ALTAVAIR	V2527-A5	4621	2011	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A320-232	Willis Lease	V2527-A5	6865	2016	Nov 2021	Sale / Lease	Chris Giles	cgiles@willislease.com	
A320-232	Willis Lease	V2527-A5	7163	2016	Now	Sale / Lease	Chris Giles	cgiles@willislease.com	
A320-233ceo	FPG Amentum	V2527E-A5	4457	2010	Now	Sale / Lease	Lei Ma	ma.lei@fpg-amentum.aero	+852 9199 1875
A321-231	Deucalion Aviation Limited	V2533-A5	6009	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A321-231	Deucalion Aviation Limited	V2533-A5	6294	2014	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200	ORIX Aviation	Trent 772B-60	1306	2012	Now	Sale / Lease	Oisín Riordan	oisin.riordan@orix.ie	+353 86 335 0004
A330-200	Deucalion Aviation Limited	CF6-80E	814	2007	Q4/2021	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-200 (9x)	ALTAVAIR	Trent 772B-60/16	various	05 - 07	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
A330-200	Doric	Trent 772B-60/16	1407	2013	Now	Sale / Lease	Maurick Groeneveld	maurick.groeneveld@doric.com	+49 (0)69 247559931
A330-243	Willis Lease	Trent 772B-60	1293	2012	Now	Lease	Chris Giles	cgiles@willislease.com	
A330-300	BBAM	Trent 772B-60	1562	2014	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	Trent 772B-60	1609	2015	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	BBAM	CF6-80E1A3	1300	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
A330-300	Deucalion Aviation Limited	Trent 772B-60	1559	2014	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-6	1146	2010	Q3/2022	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-60	1357	2012	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-300	Deucalion Aviation Limited	Trent 772B-60EP	1378	2013	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
A330-343	Willis Lease	Trent 772B-60	1157	2010	Now	Lease	Chris Giles	cgiles@willislease.com	
B737-700	BBAM	CFM56-7B20	32418	2003	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-700	GA Telesis		34300	2006	Now	Sale / Lease	David Byrne	dbyrne@gatelesis.com	+353 86 780 8974
B737-8	Orix Aviation	CFM LEAP-1B	42825	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42826	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42827	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42828	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42829	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42830	2017	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42831	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42832	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42833	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	42835	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	63971	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-8	Orix Aviation	CFM LEAP-1B	64992	2018	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451
B737-800	BBAM	CFM56-7B24/3	34905	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B737-800	FPG Amentum	CFM56-7B27E	40259	2013	Now	Sale / Lease	Eoin Kirby	eoin.kirby@fpg-amentum.aero	+353 86 027 3163
B737-800	Deucalion Aviation Limited	CFM56-7B26E	40880	2012	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-800	Deucalion Aviation Limited	CFM56-7B27/3	37254	2011	Now	Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-800	Deucalion Aviation Limited	CFM56-7B26	30294	2004	Q1/2022	Sale	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-800	Deucalion Aviation Limited	CFM56-7B	30659	2003	Now	Sale / Lease	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
B737-800	ORIX Aviation	CFM56-7B26	34692	2007	Q4/2021	Sale / Lease	Cian Coakley	cian.coakley@orix.ie	+353 87 7760451

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# THE AIRCRAFT AND ENGINE MARKETPLACE

## Commercial Jet Aircraft (cont.)

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B737-900	BBAM	CFM56-7B26/3	34953	2007	Now	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-200ER	BBAM	GE90-90B	29004	1998	Jan 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	BBAM	GE90-115B	37898	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	BBAM	GE90-115BL2	37898	2012	Apr 2022	Sale / Lease	Steve Zissis	info@bbam.com	+1 787 665 7039
B777-300ER	ALTAVAIR	GE90-115B	39235	2012	Now	Sale / Lease	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
B777-300ER	ALTAVAIR	GE90-115B	39686	2013	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
ATR-72-500	Willis Lease	PW120M	919	2010	Now	Lease	Neil Ruane	nruane@willislease.com	1-(647)-242-4952
ATR-72-500	Willis Lease	PW120M	920	2010	Now	Lease	Neil Ruane	nruane@willislease.com	1-(647)-242-4952
ATR-72-500	Willis Lease	PW120M	928	2010	Now	Lease	Neil Ruane	nruane@willislease.com	1-(647)-242-4952
ATR-72-500	Willis Lease	PW120M	932	2010	Now	Lease	Neil Ruane	nruane@willislease.com	1-(647)-242-4952
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	15057	2005	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
CRJ900	Regional One	CF34-8C5	15087	2006	Now	Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
DHC8-Q400	Regional One	PW150A	4326	2010	Now	Sale / Lease	Kurt Brulisauer	kbrulisauer@regionalone.com	+1 (404) 542-5320
ERJ-145LR	Regional One	AE3007A1	145411	2002	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	Nbow	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102
SAAB 340B Plus	Jetstream Aviation Capital	CT7-9B	450	1998	Now	Lease	Bill Jones	bjones@jetstreamavcap.com	+1 (305) 447-1920 x 102

## Commercial Engines

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
CF34-10E	Now - Lease				
CF34-8C	Now - Lease				
CF34-3B1	Now - Sale				
CF34-3A	Now - Sale / Lease				
(1) CF34-8C	Now - Sale / Lease	Regional One	Elizabeth Giraldo	Egiraldo@Regionalone.com	+1 305-469-7253
(1) CF34-8E5	Now - Sale / Lease				
(2) CF34-10E6 Full QEC	Now - Sale / Lease	DASI	Joe Hutchings	joe.hutchings@dasi.com	+1 954-478-7195
(1) CF34-10E5A1 Full QEC	Now - Sale / Lease				

*RegionalOne*

Engine Lease Finance



**MAGELLAN**  
 AVIATION GROUP

# THE AIRCRAFT AND ENGINE MARKETPLACE

CF34 Engines (cont.)	Sale / Lease	Company	Contact	Email	Phone
(4) CF34-10E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(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
CF6 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CF6-80C2B7F	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(1) CF6-80E1A3	Now - Sale / Lease				
(1) CF6-80E1A4B	Now - Sale / Lease				
(2) CF6-80E1A4B	Now - Sale/Lease/Exch.	ALTAVAIR	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(2) CF6-80E	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) CF6-80C2B1F	Now - Sale/Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) CF6-80C2B1F	Q3/2021 - Sale/Exchange				
(2) CF6-80E1	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
Commercial Engines (cont.)					
CFM Engines	Sale / Lease	Company	Contact	Email	Phone
(1) CFM56-5B4/P (full QEC)	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0787
(1) CFM56-5B5/P	Now - Lease				
(1) CFM56-5B6/P	Now - Lease				
(1) CFM56-5B2/P	Now - Lease				
(2) CFM56-7B26 (full QEC)	Now - Lease				
(1) CFM56-7B27	Now - Lease				
(1) CFM56-7B24	Now - Lease				
(1) CFM56-7B22 (with QEC)	Now - Lease				
(4) CFM56-7B24/3	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(5) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P	Now - Lease				
(2) CFM56-7B24/E	Now - Lease				
(4) CFM56-7B24	Now - Lease				
(1) CFM56-7B26	Now - Lease				
(1) CFM56-5C4	Now - Lease				
(4) CFM56-5B4/P	Now - Lease				
(4) CFM56-7B26/3	Now - Lease				
(3) CFM56-7B26	Now - Sale / Lease	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(4) CFM56-5B5/P	Now - Sale / Lease				
(2) CFM56-5B6	Now - Sale / Lease				
(1) CFM56-3 (SVC, fresh PR)	Now - Sale	Royal Aero	Gary MacLeod	gary@royalaero.com	+44 (0)1357 521144
(2) CFM56-7B22	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(multiple) CFM56-5B	Now - Sale / Lease	CFM Materials	Jimmy Hill	jimmy.hill@cfmmaterials.com	+1 469-628-3756
(multiple) CFM56-7B	Now - Sale / Lease				
(1) CFM56-7B26/3	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) CFM56-7B24/E	Now - Lease				
(1) CFM56-5B4/3	Now - Lease				
(1) CFM56-5C4/P (u/s)	Now - Sale	Castlake	Stuart MacGregor	Stuart.macgregor@castlake.com	+44 207 190 6138
(1) CFM56-7B22/3	Now - Lease				
(1) CFM56-5B4/P	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
(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
(2) LEAP-1B28	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) LEAP-1A33	Now - Lease				
(1) LEAP-1A32	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
PW 2000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW2037	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiair.com	+1 786 785 0787
PW 4000 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW4062-3	Now - Sale / Exchange	Chromalloy Asset Management	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) PW4060-3	Q3/2021 - Sale/Exchange				
PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
PW119B RGB	Now - Lease	Lufthansa Technik AERO Alzey	Kai Ebach	k.ebach@lhaero.com	+49-6731-497-368
PW119B	Now - Lease				
PW120A	Now - Lease				
PW121 (ATR)	Now - Lease				
PW124B	Now - Lease				
PW123B	Now - Lease				
PW125B	Now - Lease				
PW127F	Now - Lease				
PW150A	Now - Lease				
PW127M	Now - Lease				
PW150A RGB	Now - Lease				

# THE AIRCRAFT AND ENGINE MARKETPLACE

PW Small Engines	Sale / Lease	Company	Contact	Email	Phone
(1) PW150A	Now - Sale/Lease/Exch.	Willis Lease	David Desaulniers	leasing@willislease.com	+1 (561) 349-8950
(8) PW127M	Now - Sale/Lease/Exch.				
(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.				
(1) PW123B	Now - Sale/Lease/Exch.	Regional One	Duane Butler	dbutler@regionalone.com	+1 561-809-0001
(1) PW127F					
(1) PW150A					
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 772C-60	Now - Sale/Lease/Exch.				
(1) Trent-556-61	Now - Sale/Lease/Exch.				
(1) Trent 556A2-61	Now - Sale/Lease/Exch.				
(1) Trent XWB-84k	Now - Lease				
(1) Trent772B-60	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
V2500 Engines	Sale / Lease	Company	Contact	Email	Phone
(1) V2522-A5	Now - Sale/Lease/Exch.	Rolls-Royce & Partners Finance	RRPF Marketing	RRPFMarketing@rolls-royce.com	+44 7528975877
(1) V2524-A5	Now - Sale/Lease/Exch.				
(1) V2527-A5	Now - Sale/Lease/Exch.				
(1) V2527E-A5	Now - Sale/Lease/Exch.				
(1) V2527M-A5	Now - Sale/Lease/Exch.				
(1) V2530-A5	Now - Sale/Lease/Exch.				
(1) V2533-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Sale/Lease/Exch.	Chromalloy Material Solutions	Hema Krishan	Hkrishan@chromalloy.com	+1 845-587-7102
(1) V2527-A5	Now - Sale/Lease/Exch.				
(2) V2533-A5	Now - Lease	Willis Lease	Jennifer Merriam	leasing@willislease.com	+1 (561) 349-8950
(1) V2527-A5	Now - Lease				
(1) V2527-A5	Now - Sale / Lease	Castlake	Stuart MacGregor	Stuart.macgregor@castlake.com	+44 207 190 6138
(1) V2533-A5	Now - Lease	FTAI Aviation LLC	Tom McFarland	tmcfarland@ftaiairline.com	+1 786 785 0788
(2) V2522-A5	Now - Lease	Deucalion Aviation Limited	Jonathan Louch	aircraft@deucalion.com	+44 207 256 4449
(2) V2527-A5	Now - Lease				
(2) V2527-A5	Now - Sale/Lease/Exch.	Magellan Aviation Group	Bradley Hogan	bradley.hogan@magellangroup.net	+1 980.256.7120
(3) V2533-A5	Now - Lease	Engine Lease Finance	Declan Madigan	declan.madigan@elfc.com	+353 61 291717
(1) V2527E-A5	Now - Lease				
(1) V2527-A5	Now - Sale / Lease	GA Telesis	Eddo Weijer	eweijer@gatelesis.com	+1-954-676-3111
Aircraft and Engine Parts, Components and Misc. Equipment					
Description		Company	Contact	Email	Phone
(1) GTC331-500B	Now - Sale / Exchange	Centaurus Services/MASB	Paul Bithavas	paul.bithavas@centaurus.services	+61 408 389 241
Trent 892B-17 Modules					
(2) GTC331-200ER, (2) GTC331-9A,	Now - Sale	Setna IO	David Chaimovitz	david@setnaio.com	+1-312-549-4459
(1) GTC331-9B					
(1) A321 Enhanced Landing Gear 2020 OH					
GE90-115B – Fan Stator Module – P/N 2115M15G04		Altavair	Clive Bowen	clive.bowen@altavair.com	+44 7899 892493
(1) A320 ENH NLG, (2) A340 Landing Gear Shipsets		GA Telesis		landinggearsales@gatelesis.com	
Neutral CFM56-7B QEC Kit	Now - Sale	CFM Materials	Michael Arellano	Michael.Arellano@cfmmaterials.com	+1-214-988-6676
(1) RE220, (1) APS3200, (1) GTC331-9A	Now - Sale / Lease	Magellan Aviation Group	Drew Megorden	drew.megorden@magellangroup.net	+1 704-340-0273
(1) GTC331-9B, (1) GTC331-500B	Now - Sale / Lease				
(1) GTC331-9B	Now - Sale/Lease/Exch.	BBAM	Steve Zissis	info@bbam.com	+1 787 665 7039
(3) GTC331-350, (5) GTC331-9A	Now - Sale / Lease	DASI	Chris Glascock	chris.glascock@dasi.com	+1 954-801-3592
(1) APS3200, (2) GTC331-9B					
(1) APS2300, (1) GTC331-200ER,	Now - Sale/Lease/Exch.	Regional One	Miguel Bolivar	mbolivar@RegionalOne.com	+1 954-683-1893
(1) APS1000-C12, (1) GTC331-150RJ, (1) RE220RJ					
GTC331-9A (2), GTC331-9B(2)	Now - Lease	REVIMA APU	Olivier Hy	olivier.hy@revima-apu.com	+33(0)235563515
GTC331-200, GTC331-250	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				
Neutral V2500-A5 QEC Kits (2) 745K9001-64	Now - Sale	ASI Aero	Dean Morgan	deanm@asiaero.net	+1 561-771-4253
(6) GTC331-9A, (1) GTC331-200, (1) GTC331-9B, (1) GTC331-200		GA Telesis	Jay Meshay	apu@gatelesis.com	+1-954-849-3509
(2) GTC331-350, (2) GTC331-500, (1) APS3200B, (2) APS3200C					
Engine stands: CF6-80C2, CFM56-3, CFM56-5A/B/C, PW4000			Ricky Torres	stands@gatelesis.com	+1-954-676-3111
(1) APU GTC131-9A, (1) APU GTC131-9B	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